

11 01010 Unified PAM

Administrator Guide

This document covers the steps involved in configuring Securden Unified PAM along with troubleshooting tips.

01 0 1 00 011

Table of Contents

Section 1: Getting Started	7
Starting the PAM Service	7
Launching the Web Interface	8
Section 2: General Configuration Settings	10
Configure Mail Server Settings	
Proxy Server Settings	
Securden Server Connectivity	
Replace Self-signed Certificate	
Section 3: User Management	23
User Management	
Import Users from Active Directory	
Import Users from LDAP	
Import from Azure AD	
Import Users from File	
Add Users Manually	
Assigning Roles to Users	52
Custom User Roles	
User Groups	
Import User Groups from AD	
Import groups from LDAP	
Import from Azure AD	101
Add User Groups Manually	103
Configure Periodic Synchronization of Groups	105

E	xplore Single Sign-On Options	108
	Configure Single Sign-On for Okta	113
	Configure Single Sign-On for Azure AD	118
	Configure Single Sign-On for Ping Identity	120
	Configure Single Sign-On for One Login	123
	Configure Single Sign-On for G-Suite	125
	Configure Single Sign-On for Microsoft ADFS	127

Mail OTP 1	134
Google Authenticator/Microsoft Authenticator/TOTP Authenticator 1	135
Yubikey 1	136
Radius Authentication1	141
Email to SMS Gateway 1	142
DUO Authentication 1	143
Smart Card Authentication 1	149

Section 5: Account Management	152
Discovering Privileged Accounts	152
Running Discovery on Windows Servers	154
Discovering Privileged Accounts on Mac Devices	182
Discovering through Remote Gateway	185
Discovering through a Unix Connector	185
Discovering Privileged Accounts on Linux Devices	195
Discovering through Remote Gateway	198
Discovering through a Unix Connector	199
Discover and Import Accounts from Databases	208
Discover Privileged Accounts from PostgreSQL Databases	208
Discover Privileged Accounts from SQL Servers	218
Discover Privileged Accounts from Oracle Databases	229
Discovering Privileged Accounts from MySQL Databases	240

Discovering and Importing accounts from Cisco IOS Devices	250
Importing Accounts from CSV/XLSX Files	265
Adding Accounts Manually	268
Importing accounts from KeePass	275
Add and Manage SSH Keys	277
Add Documents/Files	280
Password Management Operations	285
Manage Windows Dependencies and Service Accounts	294
Launching Remote Connections	296
Launching Native RDP connections	300
Launching Native SSH connection	308
Launching Native SQL connections	309
Launching connections to thick application clients	310
Share Accounts with Users/Groups	319
Configuring Shared MFA Tokens	327
Share Accounts/Passwords with Third Parties	329
Just-in-time Access through Approval Workflows	335
Performing Operations on Multiple Accounts	351
Add and Manage Account Types	354
Section 6: Notifications	376
Event Notification	376
	Importing Accounts from CSV/XLSX Files

	570
Account Expiration Notification	378
Password Expiration Notification	380
Breached Password Identification	382
Expired Password Rotation	384
Event Listener	386

Section 7: API Access	. 398
APIs for Programmatic Access	398

Section 8: Folder Management 406
Manually Adding Folders 406
Import Folders from Files 409
Configure Automated, Periodic Remote Password Resets
Section 9: Audits
Account activities:
User activities
Session Trails:
Section 10: Configure Session Recording
Steps to configure session recording
Playback recorded sessions
Search by keystroke activity 462
Section 11: Configuring the Remote Gateway 466
Section 11: Configuring the Remote Gateway
Create a remote gateway 467
Create a remote gateway
Create a remote gateway
Create a remote gateway
Create a remote gateway 467 Add Assets for Remote Connections 488 Domain Accounts - Asset Associations 494 User - Assets/Application Association 500 Custom Application Launcher 504 Section 12: Privilege Elevation and Delegation (PEDM) 517
Create a remote gateway 467 Add Assets for Remote Connections 488 Domain Accounts - Asset Associations 494 User - Assets/Application Association 500 Custom Application Launcher 504 Section 12: Privilege Elevation and Delegation (PEDM) 517 Deploy Securden Agent on Computers 517
Create a remote gateway 467 Add Assets for Remote Connections 488 Domain Accounts - Asset Associations 494 User - Assets/Application Association 500 Custom Application Launcher 504 Section 12: Privilege Elevation and Delegation (PEDM) 517
Create a remote gateway
Create a remote gateway 467 Add Assets for Remote Connections 488 Domain Accounts - Asset Associations 494 User - Assets/Application Association 500 Custom Application Launcher 504 Section 12: Privilege Elevation and Delegation (PEDM) 517 Deploy Securden Agent on Computers 517 Discover / Add Applications, Processes, Commands 522 Create Control Policies 527

Section 13: Customization 54	42
Customize Securden PAM 54	42
Securden Agent Text Customization54	42
Configurations	45
Changing Logo, Theme, and Text 59	95
Section 14: Security Settings 60	01
Change the Encryption Key Location60	04
Block Access through API, Extensions, Mobile Apps	80
Section 15: Emergency Access Settings60	09
Configure Emergency Access 60	09
Database Backup61	13
Backup of Passwords as an Encrypted HTML File	17
Section 16: High Availability61	19
Configure High Availability61	19
Section 17: Distributed Architecture63	31
Remote Distributors	31
Unix Connector	35
Section 18: Reports 63	38
Standard Reports	38
Concise Reports	56
Account Management 65	56
User Management 65	57
Password Security Analysis65	58
Work Account Analysis65	58

Personal Account Analysis	. 660
Exported Reports	. 661

Section 19: Miscellaneous 6	62
Change Database	562
Browser Extensions	565
Moving Securden Installation from One Machine to Another	570

Section 20: Product	License Key		672
---------------------	-------------	--	-----

Section 1: Getting Started

Starting the PAM Service

• You can start and shut down the PAM service from the Windows Services Manager.

• Locate **Securden PAM Service** and start or stop it as required. This takes care of starting and stopping the dependent services too.

Services							-	D	
e Action View	Help								
	a 🗟 🔽 📷 🕨 🖩 II IÞ								
Services (Local)	O Services (Local)								Ì
	Securden PAM Service	Name	Description	Status	Startup Type	Log On As			
	Securiterina	Securden PAM Service	Privileged Ac	Running	Automatic (De	Local System			
	Stop the service	Securden Vault Service	Privileged Ac	Running	Automatic (De	Local System			
	Restart the service	Secure Socket Tunneling Pro	Provides sup	Running	Manual	Local Service			
		Security Accounts Manager	The startup	Running	Automatic	Local System			
	Description:	Security Center	The WSCSVC	Running	Automatic (De	Local Service			
	Privileged Access Security - Securden	Sensor Data Service	Delivers dat	Ranning	Manual (Trigg	Local System			
	Service	Sensor Monitoring Service	Monitors va.		Manual (Trigg	Local Service			
		Sensor reset service	Sensor reset	Running	Automatic	Local System			
		Sensor Service	A service for	indiana	Manual (Trigg	Local System			
		Server	Supports file	Running	Automatic (Tri	Local System			
		Shared PC Account Manager	Manages pr		Disabled	Local System			
		Shell Hardware Detection	Provides not	Running	Automatic	Local System			
		Smart Card	Manages ac	Running	Manual (Trigg	Local Service			
		Smart Card Device Enumerat	Creates soft	5	Manual (Trigg	Local System			
		Smart Card Removal Policy	Allows the s		Manual	Local System			
		SNMP Trap	Receives tra		Manual	Local Service			
		Software Protection	Enables the		Automatic (De	Network Se			
		Spatial Data Service	This service i		Manual	Local Service			
		Spot Verifier	Verifies pote		Manual (Trigg	Local System			
		SQL Server (SQLEXPRESS)	Provides sto	Running	Automatic	Network Se			
		SQL Server Agent (SQLEXPRE	Executes job	3	Disabled	Network Se			
		SQL Server Browser	Provides SQ_	Running	Automatic	Local Service			
		SQL Server CEIP service (SQL	CEIP service	Running	Automatic	NT Service\			
		SQL Server VSS Writer	Provides the	Running	Automatic	Local System			
		SSDP Discovery	Discovers ne	Running	Manual	Local Service			
		State Repository Service	Provides req	Running	Automatic	Local System			
	Extended / Standard /	Acres .							

Note: You need not start **Web Service – Securden PAM** manually, as Securden automatically takes care of this.

Troubleshooting tips:

1. The PAM Service/Web Service does not start automatically

Ensure the following:

- The Securden-cert.pem file must be present in the <Securden Installation directory>/Conf folder.
- Web Service Securden PAM should be set to **Manual**.
- Securden PAM Service needs to be set to Automatic (Delayed Start).

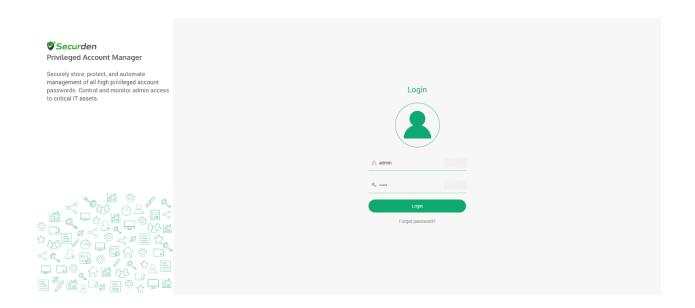
Launching the Web Interface

To launch the web interface manually, open a browser and connect to the URL below:

https://<PAM server hostname>:5959

If you have configured a port to be something other than the default port **5959**, you need to enter that port in the URL instead.

In the web-login page you need to enter the login credentials.



To access the initial unconfigured setup, make use of the default login details as below:

Username: admin

Password: admin

Troubleshooting Tips:

During this process, you might see warning messages displayed by the browsers. This message appears because Securden comes bundled with a self-signed certificate. (If your administrator adds a CA-signed certificate, this message will vanish)

- In Chrome, click Advanced and then click Proceed to <hostname> (unsafe).
- In the case of Internet Explorer, click **Details** and then **Go on to the** webpage

Section 2: General Configuration Settings

Upon deploying Securden, you need to carry out certain settings before proceeding with configuring the features. These settings are classified under the **Admin >> General** section.

They include: > setting up the mail server that enables Securden to send email notifications, > proxy server settings (if your organization makes use of a proxy server to regulate internet traffic), and > Securden server connectivity settings specifying how to connect to the Securden web interface from the client machines and the name with which the client machines identify the Securden server host. The details of configuring these settings are explained in the sections that follow.

Configure Mail Server Settings

Securden sends various email notifications to users/admins. This includes the email notification that enables new users to set up access to the PAM interface. Other email notifications include activity alerts, reports, and more.

To facilitate these emails, SMTP server details are to be configured. Navigate to **Admin>> General >> Mail Server Settings** in the GUI to perform this step.

💙 Privileged Ac	count Manager										Q ← Search Accounts	
Dashboard	Accounts F	olders	Users	Groups	Audit	Sessions	Reports	Adn	nin			
		C	Q Search									
		8	Securden Agents Technician Access Pi Automatic Approval F		4	Active Directory Doma	ins		A 📑	note Distributors		•
			lotifications			SAML SSO				Inix Connector		
			Event Notifications	Notification		Ticketing System				n Availability Jatabase Backup		
			Account Expiration N Breached Passwords			eneral Mail Server Settings				tigh Availability Passwords Backup (Encrypted HTML File)		- 1
			Expired Passwords			Proxy Server Settings				ntenance & Upgrades		- 1
		E	mergency Acces	s		 Browser Extension Securden Server Conn 	ectivity			Product Upgrades		- 1
		Ø	Configure Emergency	y Access	Ę	License			Rest	tricted Access Over the Internet		
									C 📷	Certificate-based Authentication		

In the GUI that opens, you need to enter the SMTP server details.

💙 Privileged Ad	ccount Manager									Q ← Search Accounts	
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Admin > Configure	SMTP Server Settings										
SMTP Server Name (He smtp.securden.com											
Connection Mo	de										
O TLS O SSL	 None 										
SMTP Port* 25											
Sender Email Addre	ss for Notifications*										
Supply Credenti	als (if authentication rec	uired)									
Username											
Password											
Save Sen	d Test Email Ca	ancel									

Enter the following SMTP details:

SMTP server name: Enter the hostname or IP address of the machine that runs the SMTP server.

Connection Mode: Select the mode in which the SMTP accepts connections. Select TLS or SSL for encrypted connections. The option **None** indicates the default SMTP connection mode (not recommended).

SMTP Port: Specify the port in which the SMTP service listens. The default port for TLS is 587 and SSL is 465.

Sender email address for notifications: The email address you enter here will be displayed as the 'sender' when Securden triggers email notifications to users.

Supply Credentials: If your SMTP server requires authentication to access it, you need to supply the credentials.

Note: If you have added accounts in PAM and wish to utilize one of the added accounts to authenticate the SMTP server, you may click on **Specify an account already stored in Securden** and select a corresponding account.

Privileged A	count Manager								Q - Search Accounts	8
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
Admin > Configure	SMTP Server Settings									
Securden sends	various email notification	is to the users and	to facilitate that, SMTF	o server details are to	be configured h	nere.				
SMTP Server Name (Ho smtp.gmail.com	stname or IP Address)*									
Connection Mo	de									
TLS O SSL	 None 									
SMTP Port*										
25										
Sender Email Addre	ss for Notifications*									
Supply Credenti	als (if authentication requ	ired)								
 Enter username 	and password	ecify an account a	lready stored in Securd	len						
Account Type		Addr	ess		Title					
Windows Member		✓ test			✓ Test			~		
Save Sen	f Test Email Can	cel								

You need to select the **Account Type**, its **Address**, and **Title** in Securden.

💙 Privilege	d Account Mana	ager							Qv	Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Adı	min		
	gure SMTP Server Set	tings									
25											^
Sender Email Add jakecso@gmail	ess for Notifications* .com										
Supply Creating	entials (if authentica	ation required)									
O Enter userr	name and password	 Specify an 	n account alre	ady stored in Sec	curden						- 1
Account Type			Addres				Title				
Azure AD			✓ 192.16	8.72.2		~	Email login			~	
Save	Send Test Email	Cancel									

After providing the required details and authentication credentials, click **Save**.

You can also test and validate the configuration setting by sending a test email.

Proxy Server Settings

If your organization makes use of a proxy server to regulate internet traffic, configure the proxy server details to facilitate Securden to connect to the internet.

To configure proxy server details, navigate to **Admin >> General >> Proxy Server Settings.**

Privileged Ac	count Manage	r									Q٧	Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin					
		Q Search											
		😻 Automatic Approva	al Policies	ļ	Syslog for SIEM			Application Se					*
		Notifications			SAML SSO		4		4				
		🗒 Event Notifications	3	8	Ticketing System	n	F	ligh Availabi	lity				
		Password Expiration	on Notification		eneral			Database Back	kup				
		$\mathcal{P}_{\mathtt{H}}$ Account Expiration	Notification		Amail Server Setti		0	🚦 High Availabili	ty				
		용 Breached Passwor	ds Identification			-	Ē	Passwords Ba	ckup (Encryp	oted HTML Fil	le)		
		Expired Password	Rotation		 Proxy Server Set Browser Extension 	-	N	laintenance	& Upgrad	des			- 1
		Emergency Acce	SS	¢	Securden Server	Connectivity	Ę	Product Upgra	des				- 1
		🚷 Configure Emerger	ncy Access	E	License			estricted Ac			rnet		- 1
								Certificate-bas	ed Authentic	ation			

In the GUI that opens, toggle the **Enable Proxy** button and then click on **Add Proxy Server**

Privileged A	ccount Manager									Q ✓ Search Acco	unts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Admin > Proxy Ser	rver Settings											
Configure F	Proxy Server											
	ation makes use of a prox I associate them with thei						connect to the intern	et. If you have app	olication servers in mu	ltiple regions, you can add	the proxy servers of	each
Enable Proxy												
Q 0 III	Add Proxy Server S	et as Default								Sh	owing 0 to 0 of 0	25 🗸
Proxy Server Name			Hos	tname / IP Address			Port				Actions	
					🖞 No da	ata found						
Showing 0 to 0 of 0	25 🗸										≪ < 1 >	

In the text fields below, enter the hostname or IP address of the machine that hosts the proxy server. Also enter the port used by the proxy server to allow client connections.

Privileged A	ccount Manager								Q ✓ Search Accounts	8
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
Admin > Proxy Ser	ver Settings > Add Proxy S	Server								
Add Proxy	Server									
Proxy Server Name* InternetProxy1										
Hostname or IP Addres	15*									
Port* 2										
Proxy Protocol *										
HTTP			~							
Supply Credent	als (if authentication req	uired)								
O Enter usernam	e and password 💿 S	pecify an acco	unt already stored in Secu	rden						
Account Type			Address		т	itle				
Azure AD		~	Search Account Address		✓ S	earch Account Title		~		
Save	t Internet Connection	Cancel								

Note: If the proxy server requires authentication, you need to enter the credentials to enable Securden to connect to the proxy server. Click the

checkbox **Supply Credentials**. You can either select an account added in Securden or enter username and password to authenticate.

If you want to choose an account stored in Securden, you can do so by searching for the **Account type**, **Address**, and **Title** in Securden.

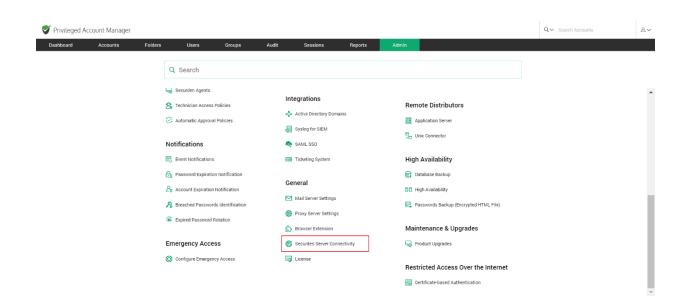
Save the settings and then run a test to verify the internet connection.

Securden Server Connectivity

This setting is to specify how to connect to the Securden web interface from client machines and the name with which the client machines identify the Securden server host.

In addition to specifying how the Securden server can be accessed, you can specify the gateway URLs for RDP and SSH connections.

To configure server connectivity settings, navigate to **Admin >> General >> Securden Server Connectivity**



In the GUI that opens, enter the following details.

💙 Privilege	d Account Manager							Q - Search Accounts	8~
Dashboard	Accounts F	olders Users	Groups	Audit Sessions	Reports	Admin			
Admin > Secu	rden Server Connectivity								
Securde	n Server Connectivity	,							
URL to acc Web-based Web-based	is to specify how to connect to Se ess Securden server: You can speci RDP Connections: This is to launch SSH Connections: This is to launch hine Address: Specify the exact ad	fy below the exact details of t 1 Web-based remote RDP con 1 Web-based remote SSH con	he host in which Securden s nections from Securden. Spe nections from Securden. Spe	server is running to enable client i ecify the RDP server's gateway U ecify the SSH server's gateway U	machines to establish a o RL. RL.	connection with the	e server. In case, you have configured an alias, you may	specify the same.	
URL to access Se https://W10PF Web-based RDP https://W10PF	2YAS0P.5959 Connections*								
Web-based SSH https://W10PF									
Server Machine W10PF2YAS0									
Save	Cancel								

URL to access Securden server

This URL refers to the exact details of the host in which the Securden server is running to enable client machines to establish a connection with the server. If you have configured an alias name, you may specify the same. You can also enter the IP address or domain name.

Securden server uses port **5959** by default. If you wish to change the Server port, follow the steps below.

To change server port:

1. Navigate to the Securden installation folder/conf directory and open the 'server.properties' file with Wordpad or notepad++.

2. Look for the entry "SERVER_PORT" and enter the required port number.

3. Restart Securden PAM Service alone (DO NOT restart 'Web Service – Securden PAM').

If you do not wish to enter the port number, you can change the port number to default 443 to access Securden.

To change the https port to the default 443, follow the below steps:

• Navigate to the Securden installation folder/conf directory and open the

'server.properties' file with Wordpad or notepad++.

• Look for the entry "SERVER_PORT" and enter the required port

number.

• Restart Securden PAM Service alone (DO NOT restart 'Web Service – Securden PAM').

After updating the 'server.properties' file, you may enter the modified port in the Server Connectivity field.

Troubleshooting tip

If you are not able to connect to Securden Server using the domain name, then you can connect to it using the IP address.

Web-based RDP Connections

Securden helps in launching one-click, web-based RDP connections from the interface. To facilitate that, you can specify the RDP server's gateway URL. By default, Securden uses port 5626 for RDP connections.

If you want, you can change the RDP gateway port by following the steps below and then enter the new port number here.

To change RDP Server Gateway Port:

- Navigate to the Securden installation folder/conf directory and open the 'server.properties' file with Wordpad or Notepad++.
- Look for the entry "RDP GATEWAY PROXY PORT" and enter the new value.
- Restart Securden PAM Service alone (DO NOT restart 'Web Service Securden PAM').

Web-based SSH Connections

Securden helps in launching one-click, web-based SSH connections from the interface. To facilitate that, you can specify the SSH server's gateway URL. By default, Securden uses port 5622 for SSH connections. If you want, you can change the SSH gateway port by following the steps below and then enter the new port number here.

To change SSH Server Gateway Port Number,

• Navigate to the Securden installation folder/conf directory and open the

'server.properties' file with Wordpad or Notepad++.

- Look for the entry "TORNADO PROXY PORT" and enter the new value.
- Restart Securden PAM Service alone (DO NOT restart 'Web Service Securden PAM').

Server Machine Address

Specify the exact address of the machine where the Securden Server is running to enable client machines to identify the Securden Server while deploying agents.

Replace Self-signed Certificate

By default, Securden comes bundled with a self-signed certificate. You can add your own Certificate Authority signed certificate by following the steps below.

Securden requires the certificate and the private key separately. If you have the CA certificate in .pfx format, follow the steps below:

1. Download OpenSSL (if you don't have that installed already).

You can download OpenSSL from

<u>http://www.slproweb.com/products/Win32OpenSSL.html</u>. Make sure the 'bin' folder under the OpenSSL installation is included in the 'PATH' environment variable.

2. Copy your certificate (e.g., certificate.pfx) and paste it in the system from where you can execute OpenSSL exe.

The *.pfx file is in PKCS#12 format and includes both the certificate and the private key.

3. Run the following commands to export the private key.

- openssl pkcs12 -in certificate.pfx -nocerts -out securden-key.pem nodes
- openssl rsa -in securden-key.pem -out securden-key.pem

4. Run the following command to export the certificate.

• openssl pkcs12 -in certificate.pfx -nokeys -out securden-cert.pem

Once you execute the above steps, you will get an SSL certificate and a private key.

5. Copy the certificate and private key created above and navigate to <Securden-Installation-Folder>/conf directory and paste the keys.

6. In services.msc, restart Securden PAM Service.

Troubleshooting tips:

- In some cases, the PEM file does not contain the private key, and this brings up the error - Expecting: ANY PRIVATE KEY. Ensure that you have the key along with the certificate.
- Ensure that the .pfx file is in PKCS#12, as this format holds both the certificate and key in it. Hence, we recommend the certificate be exported in PKCS#12 format to extract the certificate and key separately.

Section 3: User Management

User Management

User Management deals with onboarding users in your organization into Securden. It extends to assigning them different roles, enforcing security settings, managing their access and permissions, de-provisioning departing users, and more. Before you proceed with onboarding the users, certain prerequisites are to be carried out.

Onboard Your Users

You need to create accounts for your team members to enable them to use Securden. There are multiple options to do this. The options are:

- Importing Users from Active Directory
- Importing Users from Azure AD
- Importing Users from LDAP
- Adding Users Manually
- Importing Users from a File

Import Users from Active Directory

When you integrate with AD, Securden scans your AD domain and obtains the users and groups in the domain. You can discover any specific user(s) or a group of users and add them to Securden.

Navigate to **Users >> Add >> Import Users From AD** in the GUI to perform this step.

💕 Privileged Account Manager							Q ∽ Search Accounts	8~
Dashboard Accounts Fol	ders Users	Groups	Audit Sessio	ns Reports	Admin			
All Users V Add N	Nore - Q De	etails Report C	oncurrent Logins					
Perr perry@p User Import Users From LDAP User Import Users From Azure AD	Se	ecurden Administrator				Actions 🗸 🥒 Edit		
Add Users Manually localadr import From File Administrator		sername g Securden Administrator ogin Name g admin mail g localadmin@securden.cl omain g Local ole dministrator	um.					
	Pi N	hone Number ot provided ser ID 1 200000000227						
o 2 of 2 25 ∨ ≪ < 1		wo Factor Status						

Importing from AD is a two-step process. In the first step here, you need to supply certain details to enable Securden to scan the members in the domain.

Step 1: Establish Connectivity

This step requires you to provide certain details to enable Securden to scan members of the domain.

Privileged A	ccount Manager								Q ✓ Search Accounts	
ashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
nport Usei	rs from AD							Help 🧧		
									users from AD is a two step process. In the need to supply certain details to enable Se	
ep 1: Establ	ish Connectivity	/							nembers in the domain.	concern c
								Domain I	P Address	
			he users and grou	ips in the domain. Ye	ou can discover any	/ specific user(s) or a g	group of users and add		e FQDN or IP address of the domain to be	scanne
them to Securde	n. User discovery is a	two-step process.						You have	the option to enter any number of second	ondary I
and an edder of the									in comma separated form. This will help connection if the primary IP address is not w	
nain IP Address / F0 2.168.72.2	1014 -							Connecti	en Mada	
									on Mode e mode (SSL/non-SSL) through which Seci	urden br
condary IP Addre	esec (Optional)							to establis	sh connection with the AD domain. If SSL	. mode
condary in Addre	sses (optional)								he domain controller should be serving ov and the certificate of the domain controll	
lect Remote Gatew									a signed by a CA. If the certificate of the is not signed by a certified CA, you need to	
one	ay	~						the certif	icates that are present in the respec	tive roo
									chain - that is the certificate of the domain e intermediate certificates if any. For det	
								here		
nnection Mo	de							Supply A	dministrator Credentials	
SSL									to supply administrator credentials so as	
									to scan the members in the domain. You r ame and password manually once and th	

Domain IP Address: Specify the FQDN or IP address of the domain controller to be scanned. You have the option to enter any number of secondary IP addresses (secondary domain controllers) in comma separated form. This will help Securden establish a connection if the primary is not accessible.

Connection Mode: Specify the mode (SSL/non-SSL) through which Securden has to establish a connection with the AD domain.

 If SSL mode is selected, the domain controller should be serving over SSL in port 636 and the certificate of the domain controller should have been signed by a CA. If the certificate of the domain controller is not signed by a certified CA, you need to import all the certificates that are present in the respective root certificate chain - that is the certificate of the domain controller and all the intermediate certificates if any.

You can follow the example given below to import the domain controller's certificate into the certificate store of the Securden server machine. (However, you may use any procedure that you would normally use to import the SSL certificates to the machine's certificate store).

- In the Securden server machine, launch Microsoft Edge and navigate to Tools >> Internet Options >> Content >> Certificates.
- In the GUI that pops up, click **Install Certificate** and then choose **Local Machine** in the next step.
- Browse and locate the root certificate issued by the CA.
- Click Next and choose the option Automatically select the certificate store based on the type of certificate and install.
- Click Import again.
- Browse and locate the domain controller certificate.
- Click Next and choose the option Automatically select the certificate store based on the type of certificate and install.
- Apply the changes and close the wizard.
- Repeat the procedure to install other certificates in the root chain.

Supply Administrator Credentials: You need to supply administrator credentials to enable Securden to scan the members in the domain. You may

enter the username and password manually once and this will be stored in Securden for use during subsequent import attempts.

Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
Secondary IP Addr Select Remote Gate -None	,	~						to establish selected, th port 636 ar have been controller is	mode (SSL/non-SSL) through which is connection with the AD domain. If e domain controller should be serviny id the certificate of the domain con signed by a CA. If the certificate o not signed by a certified CA, you need ates that are present in the rest	SSL mode is g over SSL in troller should f the domain d to import all
Connection Me	ode							and all the here	hain - that is the certificate of the dom intermediate certificates if any. For	
SSL								You need to Securden to the usernar	ministrator Credentials o supply administrator credentials so o scan the members in the domain. Y ne and password manually once and	ou may enter d this will be
Supply Admini	strator Credential	S						stored in Se	curden for use during subsequent imp	ort attempts.
Username										
Password										

Once you've entered the Administrator Credentials, click **Next**. This is the end of step 1.

In the next step, you can discover any specific user(s) or a group of users and add them to Securden.

😴 Privileged Account Manager									Q ✓ Search Accounts	8~			
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin					
Import User	s from AD								Help 🔋		*		
									This step is domain spe	to fetch the required users and groups from the cified.	te AD		
Step 2: Discove	and Import									fers the flexibility to fetch users from OUs/Grou en specific users, in a single step. That mean			
	s users and user group you can exercise any o					I maintain the same g	roup structure here to	o. You have three	can enter t single step	he names of the OU/Groups to be discovered by You can enter the discovery details in n as you wish.	d in a		
	Domain Name : SECURDEN.AWS.COM Domain IP : 172.31.1.11 OUs Groups Users									For example, if you want to fetch users from an OU an Group, first enter/knowse and select the name of the OU, or Discover. Then go to the 'Group' tab, select/bhowse the na of the Group, click 'Discover', Verify your discovery details finally, click 'Import'. Securiden will fetch all users that are of the OU and Group specified.			
Fetch all users who	Fetch all users who are part of the selected OU/OUs. Enter your search text. Then click the 'Discover' button.									import is subject to your license limits. In cas users you try to import exceeds the license lim users actually imported will conform to the li	iit, the cense		
Q Search OUs		Dis	scover Brow	rse OU Tree and Sele	ect				details in th	aining users will not be imported. You can veri e next step.	ny the		
Verify the Objec	ts Selected for Di	scovery									- 1		
Verify your search re	sults before proceedin	g to importing them t	to Securden.										
											-		

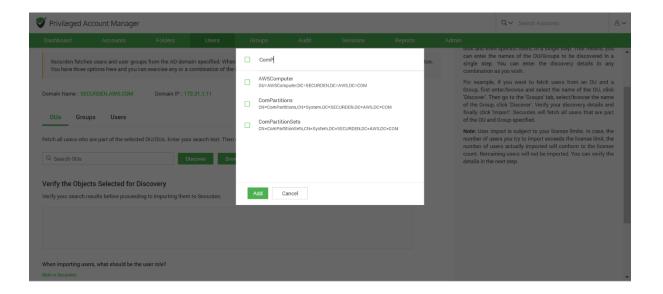
Step 2: Select Users to Import

This step is to fetch the required users and groups from the AD domain specified. When you import user groups from AD, Securden maintains the same group structure here too.

This GUI offers the flexibility to fetch users from OUs/Groups in bulk and even specific users, in a single step. That means you can enter the names of the OU/Groups to be discovered in a single step. You can enter the discovery details in any combinations (OUs, Groups, Users) as you wish.

To import OUs, select the OU tab.

1. Enter the OU name and select **Discover.**



 You can also browse from the OU tree by clicking on the Browse OU Tree and Select option. You can select one or multiple OUs and select Add.

🔊 Privileged Account Manager									Q - Search Accounts	8×
Step 2: Discove Securden fetch You have three of Domain Name : SEC	ain specified. When combination of the 12.31.1.11	SECURDEN.AWS.COM				The wap to a domain spec This GU off bulk and eve can enter th single step combination For example Group, first + 'Discover', T of the Group finally click' of the OU an	for the flexibility to fetch users from OUS/Group even specific users, in a single step. That means, it is the names of the OU/Groups to be discovered is ign. You can enter the discovery details in i long ary uwinh. Indept, if you want to fetch users from an OU an st enter/browse and select the name of the OU, or . Then go to the 'Groups' tab, select/browse the na ouy, click' Discove'. Verify you discovery details ke' Import'. Securden will fetch all users that are p and Group specified.	s in you n a any d a lick me and and the		
Q Search OUs	are part of the selected	scovery	iscover Bro	 Keys Keys 	and Couries Assour	ata		number o count. Re	If users you by to import exceeds the licence limit, of users actually imported will conform to the lice maining users will not be imported. You can verify the next step.	nse

3. You can then verify your selection in the **Verify the Objects Selected for Discovery.**

- You can then select the role for the users in OUs using the Role in Securden dropdown.
- 5. Before selecting the import button, you can look into the additional settings which are explained below.
- 6. Select **Import.**

To import Groups, select the Groups tab.

- 1. Enter the Group name and select **Discover.**
- 2. You can also browse by clicking on the **Browse Groups and Select** option. You can select one or multiple groups and select **Add**.
- You can then verify your selection in the Verify the Objects Selected for Discovery.
- You can then select the role for the imported users in groups using the Role in Securden dropdown.
- 5. Before selecting the import button, you can look into the additional settings which are explained below.
- 6. Select **Import.**

To import Users, select the Users tab.

- 1. Enter the user name and select **Discover.**
- You can then verify your selection in the Verify the Objects Selected for Discovery.

- You can then select the role for the individual users imported using the Role in Securden drop down. This is set to the User role by default.
- 4. Before selecting the import button, you can look into the additional settings which are explained below.
- 5. Select **Import.**

Advanced Settings:

This option allows you to either include domain users of all subgroups to the group being imported or ignore the subgroups and import only the users of the first level group.

Note: User import is subject to your license limits. In case, the number of users you try to import exceeds the license limit, the number of users actually imported will conform to the license count. The remaining users will not be imported. You can verify the details in the next step.

User Groups to Import: You can import all or specific user groups to import, depending on your requirements. You can type in the names in the respective text fields in comma separated form.

Configure Synchronization: Securden also allows Periodic Synchronization with AD. After you import the required users, you can configure periodic synchronization with AD. This helps you import users automatically. Click **Save** to save the domain details.

Troubleshooting tips:

Trying to fetch local admin accounts from a PC gets the following error - **The username/password does not exist (or) the user does not have the remote launch or remote.**

This might be due to insufficient account permissions. Try to re-run the discovery by providing a domain admin credential.

Navigate to **Accounts >> Discover Accounts >> Windows**. Click **Modify** >> Enter username and password.

You can enter a **domain admin credential** and try to discover the computers again to fetch local accounts. If it still fails, you can try disabling the firewall and check once again.

Import Users from LDAP

If your organization makes use of an LDAP to interact with your directory service, you have the option to import your users from the LDAP compliant directory.

Navigate to **Users >> Add >> Import Users from LDAP**.

Privileged Account Manager		Q ← Search Accounts	8~
Dashboard Accounts Folders	Users Groups Audit Sessions Reports Admin		
All Users V Add V More V C	Details Report Concurrent Logins		
Import Users From AD Import Users from LDAP User Import Users From Azure AD	Securden Administrator Actions 🗸 🥒 Edit		
Add Users Manually	Username B Securden Administrator Login Name B admin Email Domain B Local Role Administrator		
	Auministration Phone Number Not provided User ID Us 200000000227		
1 to 2 of 2 25 V 《 < 1 > »	Two Factor Status Disabled		

Importing from LDAP is a two-step process. In the first step here, you need to supply certain details to enable Securden to connect and scan the directory.

V	Privileged Acc	count Manager							Q~ s	earch Accounts	8~	
Da	shboard	Accounts	Folders	Users	Groups	Audit	Sessions	Rej	ports	Admin		
Im	nport Users f	from LDAP						Help 🔋			^	
Ste	ep 1: LDAP Se	ettings						step here,	you need	DAP is a two-step process. In the to supply certain details to en- d scan the directory.		
	Yeu oo internet	- Cooundan with on		•		and maxima The		Domain Ide	ntifier		- 1	
		e Securden with an nport follow a two-st	, ,	it directory service	ce and import use	rs and groups. The		Enter the nar	me with whi	ch the LDAP domain can be identifie	ed.	
Don	Domain Identifier *							Domain Base DN				
								fetches attri 'base' or 'roo will be enteri	bute values t' from wher ng the top	rs from an LDAP directory, Secur s from the directory. You need to e re the directory lookup should start. level of the LDAP directory tree nam is appearing in your LDAP direct	nter You ie in	
Dor	main Base DN *							Typically, this	s is entered	l as a sequence of names separated Base Distinguished Name (DN).,		
Acc	count DN *							Example DC=MyDoma	iin,DC=com			
Dor	main IP Address /	FQDN *						Account DM	4			

Step 1: LDAP Settings

You can integrate Securden with any LDAP-compliant directory service and import users and groups. In the GUI that opens, enter the following credentials to proceed with the integration.

Domain Identifier: Enter the name with which the LDAP domain can be identified.

Domain Base DN: When you import users from an LDAP directory, Securden fetches attribute values from the directory. You need to enter **base** or **root** from where the directory lookup should start. You will be entering the top level of the LDAP directory tree name in the same format as it is appearing in your LDAP directory. Typically, this is entered as a sequence of names separated by commas to specify the Base Distinguished Name (DN).

Example

DC=MyDomain,DC=com

Account DN: For connection authentication, Securden needs access to an LDAP account that has read access and is password-protected. You need to enter the Account DN here. You may enter the account name and password in the last step.

Example

CN=Bob.Smith,CN=Users,DC=MyDomain,DC=com

Domain IP Address: Specify the FQDN or IP address of the LDAP domain to be scanned. You have the option to enter any number of secondary IP addresses in a comma-separated form. This will help Securden establish a connection if the primary IP address is not working.

Connection Mode: Specify the mode (SSL/non-SSL) through which Securden has to establish a connection with the LDAP domain.

- If SSL mode is selected, the domain controller should be serving over SSL in port 636 and the certificate of the domain controller should have been signed by a CA.
- If the certificate of the domain controller is not signed by a certified CA, you need to import all the certificates that are present in the respective root certificate chain - that is the certificate of the domain controller and all the intermediate certificates if any.

Supply Administrator Credentials: You need to supply administrator credentials so as to enable Securden to scan the members in the domain. You may enter the username and password manually once and this will be stored in Securden for use during subsequent import attempts. If the users belong to a different network than the Securden server, you can route the connection through a remote gateway. You can select the appropriate remote gateway from the drop-down and the discovery will happen through the selected gateway.

Step 2: Discover and Import from LDAP

In this step, Securden establishes a connection with the LDAP domain specified and imports users.

This GUI offers the flexibility to fetch only the required users from the LDAP domain.

Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin
Import Us	ers from LDA	P					Hel	p 🛜
								step is to fetch the required users and groups from the 2 domain specified.
Step 2: Disc	over and Import	t from LDAP						GUI offers the flexibility to fetch only the required users the LDAP domain. Typically, the search happens by
In this step,	Securden establish	es a connection	with the LDAP	domain specifie	d and imports u	users.	all u	pining the Base DN, which is the base of the search tree for sers, the specific level under the Base DN (the LDAP e), and the Search filter that gets granular to fetch only the
Domain Name :	ldap	Dor	main IP : 172.3	1.1.11			requi Class fetch	red users. In the search filter, you can specify a Object s, which defines the types of results that Securden will . If the Base DN contains a mix of object types like people,
Base DN * DC=SECURDEN	I,DC=AWS,DC=COM							os, assets, and so on, you may specify only the required f objects here. You may use (objectClass=*) to include all its.
Search Filter *							just j exam Sysa	uwant to add only specific users from your LDAP directory, perform a search using the appropriate search filter. For ople, if you want to import only the users from the OU dmin and O Securden, the Base DN has to be ysadmin,o=securden,c=com and the search filter has to be
LDAP Scope Base			~					en within brackets as: (objectClass=user)
Luce							If you	a want to restrict your search within a specific level under

In the GUI, you need to enter the details such as the **Base DN**, **Search filter**, **LDAP Scope, Role in Securden**, and certain advanced settings.

Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin
	bjects Selected		•. 	Securden.			com Sect Note num cour	k 'Search'. Verify your discovery details. If you to assign a mon role to all the users being imported, select the role in urden and finally click 'Import'. e: User import is subject to your license limits. In case, the ber of users you try to import exceeds the license limit, the aber of users actually imported will conform to the license nt. The remaining users will not be imported. You can verify details in the next step.
	users, what shoul	d be the user role	?					
Role in Securden			~					
Show Advar			~					
Import	Cancel							

- Base DN Typically, the search happens by combining the Base DN, which is the base of the search tree for all users, the specific level under the Base DN (the LDAP Scope), and the Search Filter that gets granular to fetch only the required users.
- Search filter In the search filter, you can specify an Object Class, which defines the types of results that Securden will fetch. If the Base DN contains a mix of object types like people, groups, assets, and so on, you may specify only the required set of objects here. You may use (objectClass=*) to include all objects.
- If you want to add only specific users from your LDAP directory, just perform a search using the appropriate search filter. For example, if you want to import only the users from the OU Sysadmin and O Securden, the Base DN has to be ou=Sysadmin,o=securden,c=com, and the search filter has to be written within brackets as: (objectClass=user)

- If you want to restrict your search to a specific level under the BaseDN, you may select the required scope from the drop-down.
- Click Search. Verify your discovery details under Verify the Objects Selected for Discovery. If you want to assign a common role to all the users being imported, select the role in Securden and finally click Import.

Advanced Settings:

This option allows you to either include domain users of all subgroups to the group being imported or ignore the subgroups and import only the users of the first level group.

Import from Azure AD

Securden allows you to import users from Azure AD. Navigate to **Users** >> **Add** >> **Import Users from Azure AD**.

V F	Privileged	Account Manager									Q ← Search Accou	nts	2
Da	shboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
	All Use	Add	▼ More ▼ Q	Details	Report	Concurrent Login:	S						
	admin_1 Super A	Import Users From AD Import Users from LDAP Import Users From Azure AE	⇔ / 1	Admini	strator					Actions \checkmark	🖋 Edit 🍈 Delete		
	╉ Anis anish@s User	Add Users Manually Import From File		Usernar E Adm Login N	inistrator						O Sync User		
	╉ arry User			-	inistrator								
	L Bala B bala@sec User	Bala eurden.com		Domain		n.com DM (SECURDEN-AWS)							
	Bala (sakthi@se Administr	ecurden.com		Distingu	iished Name	Users,DC=SECURDEN,E	IC=AWS,DC=COM						
_		Govindarajan Kasthuri Raja	_	Role Super A	dministrator								
1 to 50	of 64 5	0 ~ (1 > >>	Phone M	lumber								

This is a two-step process. In the first step, you need to supply certain connectivity details to enable Securden to scan the members in the domain. This step requires integration with Azure AD and some configuration steps. For details, refer to *Securden-Azure-AD-Guide.pdf*

Prerequisites: Azure AD import requires internet connectivity. If your organization makes use of a proxy server to regulate internet traffic, you should have configured proxy server settings. (Admin >> General >> Proxy Server Settings).

Step 1: Establish Connectivity

Privileged	Account Manage	er						Qv	Search Accounts		8
Dashboard	Accounts	Folders	Users	Groups	Audit	Session		ports	Admin		
Import User	rs from Azure A	D					Help 😝	ore from	Azure AD is a two step proc	ooo In th	
Step 1: Estab	lish Connectivity	y					first step, yo enable Secur requires inte	ou need to den to sca gration w	a the members in the domain with Azure AD and some co to this document.	y details to n. This ste	p
	ns your Azure Active [specific user(s) or a						Tenant ID Directory ID (Your orga	nization's ID with Azure AD)		
Tenant ID*							Client ID				
							Application I	D (Client II	D of the application)		
							Client secre	et			
Client ID*							Secret Key C	reated for	Securden		
Client secret*							your organiz internet traf	ation ma fic, you) import requires internet con kes use of a proxy server should have configured Pr neral >> Proxy Server Settings)	to regulati oxy serve	e
Next Ca	ancel										

In the GUI page that appears, enter the following details:

Tenant ID: Enter the Directory ID i.e., Your organization's ID with Azure AD.

Client ID: Enter the Client ID of the application.

Client Secret: This is the Secret Key created for Securden.

Step 2: Import Users

This step is to fetch the required users and groups from the AD domain specified.

This GUI offers the flexibility to fetch users from OUs/Groups in bulk and even specific users, in a single step. That means you can enter the names of the OU/Groups to be discovered in a single step. You can enter the discovery details in any combination (OUs, Groups, Users) as you wish.

To import OUs, select the OU tab.

- 1. Enter the OU name and select **Discover.**
- You can also browse from the OU tree by clicking on the Browse OU Tree and Select option. You can select one or multiple OUs and select Add.
- 3. You can then verify your selection in the **Verify the Objects Selected for Discovery.**
- You can then select the role for the users in OUs using the Role in Securden dropdown.
- 5. Before selecting the import button, you can look into the additional settings which are explained below.
- 6. Select **Import.**

To import Groups, select the Groups tab.

- 1. Enter the Group name and select **Discover.**
- 2. You can also browse by clicking on the **Browse Groups and Select** option. You can select one or multiple groups and select **Add.**
- 3. You can then verify your selection in the **Verify the Objects Selected for Discovery.**
- 4. You can then select the role for the imported users in groups using the **Role in Securden** dropdown.
- 5. Before selecting the import button, you can look into the additional settings which are explained below.
- 6. Select **Import.**

To import Users, select the Users tab.

- 1. Enter the user name and select **Discover.**
- You can then verify your selection in the Verify the Objects Selected for Discovery.
- You can then select the role for the individual users imported using the Role in Securden drop down.
- 4. Before selecting the import button, you can look into the additional settings which are explained below.
- 5. Select **Import.**

Advanced Settings:

This option allows you to either include domain users of all subgroups to the group being imported or ignore the subgroups and import only the users of the first level group.

Note: User import is subject to your license limits. In case, the number of users you try to import exceeds the license limit, the number of users actually imported will conform to the license count. The remaining users will not be imported. You can verify the details in the next step.

User Groups to Import: You can import all or specific user groups to import, depending on your requirements. You can type in the names in the respective text fields in comma separated form.

Configure Synchronization: Securden also allows Periodic Synchronization with AD. After you import the required users, you can configure periodic synchronization with AD. This helps you import users automatically. Click **Save** to save the domain details.

Import Users from File

If you have the details of your users stored in an excel sheet or in another password manager, you can import them into Securden by Navigating to **Users >> Add >> Import From File**.

💙 Pi	rivileged Account Manager									٩v	Search Account	S	8~
Das	hboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin					
	All Users ~ Add	More + Q	Details	Report	Concurrent Login	s							
	Locat destro@ Super Ar	⇔ 🖉 🔟	Destro	Shax					Actions \checkmark	🥒 Edit	🖞 Delete		
	Add Users Manually frenkidg Import From File User		Userna 📑 Des Login N	tro Shax									
	Perry Theplat perry@preey.com User		🖶 des Email	tro									
	Securden Administrator localadmin@securden.com Administrator		Domain										
				Administrator									
1 to 4 of	4 25 ~ « <	1 > >>	Not pro										
1 10 4 01	4 20 *		User ID										

File Format

Importing users is very flexible in Securden. You can simply import your CSV/XLSX file stored on your computer or the exported file from another password manager.

The details of the users such as usernames and passwords that you have entered in the file gets captured, and these are listed as separate parameters. In the second step of user import, you can map the listed columns in the input file to that of Securden.

Steps to import CSV file:

	er				
ashboard Accounts	Folders	ers Groups	Audit Sessions	Reports Admin	
			Your license allows a maximum of	f 250 users. You can add 188 more.	
mport Users From File	9				
	_				
CSV	XLSX				
pecify how each entry in you	r CSV has been separated				
lelimiter					
Comma Separated values		~			
		~			
Jser		~			
Jser Password		~			
Jser 'assword					
tole in Securden Joser *assword Jose username as password					

- 1. In the GUI that opens, click the **CSV** option.
- Select the **Delimiter**. This can either be Comma/Tab/Colon/Semi-Colon separated.
- 3. You can then select the role of the user in **Role in Securden.**
- You then have the option to choose between Email Password Creation and Use username as password under Password.
- 5. Browse and select the file.
- 6. Click **Next**. In the second step of the import, we provide the option to map the columns in the input file and that of attributes in Securden.

Steps to import XLSX file:

Privileged /	Account Manager								Q ← Search Accounts
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin	
				Your	license allows a ma	ximum of 250 users. \	ou can add 188 more.		
mport Use	ers From File								
	0	_	0						
С	sv	XLSX							
Role in Securden									
Jser			~						
assword									
Jse username as	password		~						
sample.xlsx			Browse						
Next Ca	incel								

- 1. Navigate to **Users >> Add** and click on the **XLSX** option.
- 2. You can then select the role of the user in **Role in Securden.**
- 3. You then have the option to choose between **Email Password Creation** and **Use username as password** under **Password**.
- 4. Browse and select the file.
- 5. Click **Next**. In the second step of the import, we provide the option to map the columns in the input file and that of attributes in Securden.

Mapping

In the second step of import (refer to the screenshot below), you can drag and map the columns (from the panel on the left) to the respective attribute in Securden (on the right.) For example, the first entry in your CSV/XLS could represent 'First Name' in Securden, the second entry might represent 'Last Name'.

Similarly, you can map Username --> Username, Password --> Password, URL --> URL, Hostname --> Hostname (created as additional field), Extra --> Extra (created as additional field), Grouping ---> Folders, and more.

Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin	
columns in File		Мар	Columns						
First Name								the first entry in your CSV/X op the respective columns fro	
Last Name		Марр	ing in Securd	en		😔 Reset			
Username		First Na	me *						
Password				Drag a field	here				
URL		Last Nar	ne	Drag a field	here				
Туре		Usernan	ne *						
Hostname				Drag a field	here				
Grouping		Email *							
				Drag a field	here				

Include first row

The first row on the excel sheet is excluded by default. You can opt to include this by clicking the checkbox.

Add Additional Fields

To include the additional fields present in your file, you can edit the attributes of an existing user role and add these additional fields or create a custom user role to map the additional attributes present. To create a custom user role, navigate to **Admin >> Customization >> Custom User Roles.** (Refer *Custom User Roles* section for more details.)

User import configurations

You have the option to modify the default role that is set while importing users from AD or from a file.

To do so, navigate to Admin >> Customization>> Configurations and find the configuration as follows - When importing users from AD or file, what should be the default role?

Add Users Manually

You can also onboard your users by making use of native authentication, i.e., adding users manually to access the application (typing creating a username and password for your users to access the PAM interface).

Navigate to **Users >> Add >> Add Users Manually** in the GUI to perform this step.

💙 Privileged Account Manager		Q ← Search Accounts	8~
Dashboard Accounts Folders	Users Groups Audit Sessions Reports Admin		
□ All Users ∨ Add ▼ More ▼ Q	Details Report Concurrent Logins		
Every pery@p User Import Users From AD import Users from LDAP import Users From Azure AD	Perry Platypus Actions 🗸 🥖 Edit 👔 Delete		
Add Users Manually localade Import From File Administrator	Username Perry Platypus Login Name Perry		
	Email B perry@preey.com		
	Domain Constant Cons		
	User		
	Phone Number Not provided		
	User ID 1200000001143		
1 to 2 of 2 25 🗸	Two Factor Status Disabled		-

In the GUI that opens, enter the user details as explained below:

Privileged A	.ccount Manager								Q ← Search Accounts	8٧
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
Add User									Help 🛜	
									User Roles	
First Name * Peter				ast Name Irury					There are five user roles in Securden with privileges explained below:	as
Usemame * Peter				assword ise username as pas	sword		~		Super Administrator - Can view all passwords stored in t application. Overall administration of the application, includi user management. ①	
Email * petedr@del.com									Administrator - Can administer the application, including user management.	
Role in Securden User				hone Number 32459103949					Account Manager - Can add accounts to the application Performs all administrative tasks related to the accounts.	on.
0001				xation					User - Can view the accounts shared by administrators. The can manually add accounts and share them with others.	iey
Department			I						Auditor - Can view the reports and audit trails generated in t application.	.he
User Specific	2FA Options								User Specific 2FA	
Save Car	ncel								On clicking 'User Specific 2FA Options', you will be able configure 2FA for users individually. You have the option keep 2FA '0n' or 'Off'. When kept '0n', you can select one more '2FA mothed' to be and/created for an individual user. Wh	to or

You'll have to provide the following information to add a user manually in Securden:

- First Name Enter the user's first name in the respective field.
- Last Name Enter the user's last name. This field is not mandatory.
- **Username** Enter a unique username with which the user can log in to Securden.
- For the **password**, you may choose from two options:
- Email Password Creation Link If you have selected this option and provided the email address of the user, they will recieve an email allowing them to login to Securden PAM.
- Use Username as Password The password will be the same as the username provided.

- **Email** Enter the user's email address. Login credentials for Securden will be emailed to this address once the user account is created.
- Role in Securden You can set the access level of each user by assigning them a specified user role. You can select from the five predefined user roles, Super Administrator, Administrator, Auditor, Account Manager, and User. You also have provision to create any number of custom user roles. The access level of default user roles are explained under the section *Default User Roles*. The *Custom User Roles* are explained under the section *Default User Roles*. The *Custom User Roles* are explained under the section *Default User Roles*. The *Custom User Roles* and *Custom User Roles*.
- Phone number, Department, and Location These three fields are not mandatory, but you can add them to ensure precise user information for efficient management.
- Enforce Two Factor Authentication You can choose to enable or disable two factor authentication for the added user.

Once you've filled all the fields, click **Save** to add the user.

Note: Once users login into PAM for the first time, they need to set a new password. This must be in compliance with the password policy enforced by the administrator and can be configured under **Admin >> Account Management >> Password Policy**.

Editing Users added in Securden

After adding/importing the users into Securden's database, you can still make modifications or edit their attributes. You can do this by clicking on the **Edit** icon on the User tab, beside each user. (Shown below)

💙 P	rivileged Account Manage	r								Q٧	Search Accounts	8
Das	shboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
	All Users $\!$	Add More Q	Details	Report	Concurrent Login	s						
	Frankel Lampard frenkid@gmail.com User	± 🖉 🛍	Franke	l Lampard					Actions \checkmark	🥖 Edit	1 Delete	
	Perry Theplat perry@preey.com User		Userna I∎ Frai Login N	nkel Lampard								
0	Securden Administrator localadmin@securden.com Administrator		Email		1							
			Domain									
			Role User									
			Phone Not pro	Number wided								
1 to 3 of	f3 25 ~ «	< 1 > >>	User ID									

You can modify various details like the user's first name, email, user role, etc.

V	Privileged Acc	count Manager								Q∨ Sea	arch Accounts	2~
Da	shboard	Accounts	Folders	Users	Groups	Audit	Ses	sions	в Веро	rts	Admin	
	All Users 🗸	Add 🔫	More 👻 Q	Edi	t User							
	Administrato admin_1@securd User		≒ ⁄ ⊡	First M	lame nistrator							
	4 Anish Krishna anish@securden. Administrator			Email admi	* in_1@securden.com							
	Bala Bala bala@securden.c User	om		Role i User	n Securden			~	Phone Number			
	👯 Bala Govinda balagovindarajan User	rajan Kasthuri Rajan @securden.com		Depa	rtment				Location			
	🖬 Balasubrama	nian Venkatramani		Enfo	ce Two Factor Auther	ntication	O On	۲	Off			
1 to 57	of 57 100 V		1 > >>	Acce	ss to Securden GUI 🤇	D	 Allow 	0	Deny			

You also have these options:

• Enforce Two Factor Authentication: You can turn off 2FA for specific users by turning 2FA off.

• Access to Securden GUI: You can allow/deny users from accessing the Securden GUI from here.

Quick Access Options – Users

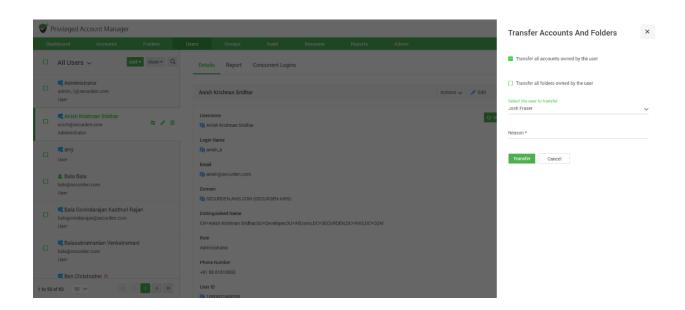
On the quick access pane on the left side of the Users GUI, if you hover the pointer over a user account, you will see three icons, Transfer Ownership (\leftrightarrows), Edit (\checkmark), and Delete (\blacksquare).

Ø P	Privileged Account Manager								Q V Search Accounts	2
Das	shboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
	All Users ∨	Add More Q	Details	Report	Concurrent Log	ins				
	Destro Shax destro@gmail.com Super Administrator		Secure	den Administrat	or				Actions 🗸 🥒 Edit	
	Frankel Lampard frenkid@gmail.com User		Userna 📑 Sec Login I	urden Administra	tor					
	Perry Theplat perry@preey.com User		Email	nin						
	Securden Administrator localadmin@securden.com Administrator	\$ \$ \$	Domai		n.com					
			Role Admin	istrator						
		_	Phone Not pr	Number ovided						
o 4 o	f4 25 🗸 <	< 1 > »	User II	1						

Transfer Ownership

You can transfer the ownership of all the accounts and folders owned by a user to another user. In such an event, the transferer will lose access to the accounts and folders already owned and the transferee will get complete ownership of those accounts and folders. This feature is particularly helpful when a user leaves the organization. You can simply transfer all the accounts they owned to another.

Once you click the transfer icon, you have the option to transfer all accounts owned by the user, or all folders owned by the user. To transfer the ownership, select the transferee from the list of users, state the reason, and click **Transfer**.



In addition to accessing the **Edit**, and **Delete** options in the user dashboard, you can also make use of the icons in quick access pane.

Assigning Roles to Users

By default, users added or imported will have the role **User** in Securden. This can be changed while importing/adding them, or after you have added them. Each Role has certain privileges associated with them, that let the user carry out certain operations within the PAM solution. You have the option to create

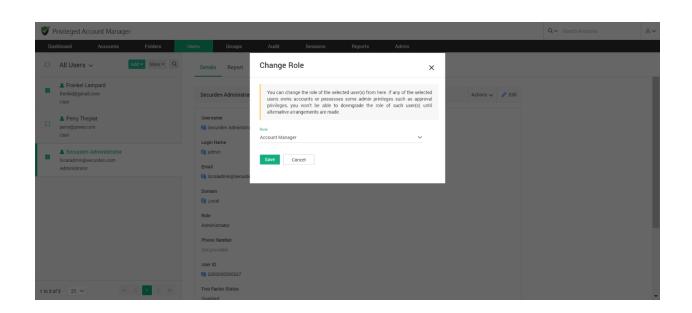
custom user roles outside the default roles available. These settings are further explained under **Default User Roles** and **Custom User Roles**.

To change the role assigned to multiple users,

Navigate to the **Users** section in the GUI and select the required users.

	-	ount Manager		_									Q ← Search Accounts	1
Dash	nboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin					
	All Users 🦄	Ad	d▼ More ▼ Q	Details	Report	Concurrent Logi	ns							
¥	Frankel La frenkid@gmai User	Add Users to Group Change Role Configure 2FA	(5)	Securd	en Administrato	pr				Ac	tions 🗸 🤞	P Edit		
	Perry The perry@preey.c User	Enable/Disable AD S Enable/Disable RAD Control Application	DIUS Authen	Usernar 😫 Secu Login N	urden Administrato	Dr								
~	Securden localadmin@s Administrator	Configure Temporar Delete Users	ry Access	📑 adm Email										
				Domain	-	.com								
				Admini: Phone I Not pro	Number									
				User ID										
3 of :	3 25 🗸	~ ~ ~	(1 > >>	Two Fa	ctor Status									

Once you've selected the users, click **More >> Change Role.**



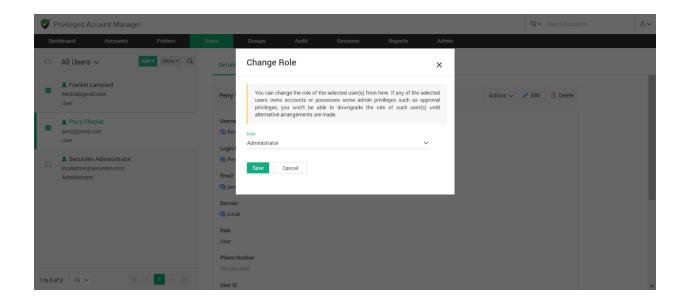
You can select the required role from the dropdown and **Save** changes.

Note: If any of the selected users owns accounts or possesses some admin privileges such as approval privileges, you won't be able to downgrade the role of such user(s) until alternative arrangements are made.

To change the role assigned to an individual user, navigate to the Users section in the GUI and select the required user. Select **Change Role** under the **Actions** drop-down.

P	Privileged Account Manag	er								Q٧	Search Accounts	2
Das	shboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
	All Users ∨	Add ▼ More ▼ Q	Details	Report	Concurrent Logins	1						
	Frankel Lampard frenkid@gmail.com User		Perry 1	Theplat					Actions \checkmark	🥒 Edit	🍈 Delete	
~	Perry Theplat perry@preey.com User	± / ∰	Userna	ry Theplat				Change Role Configure 2FA Control Application A	Access			
	Securden Administrator localadmin@securden.com Administrator		🔁 Peri	ry				Configure Temporary Reset passwords acc				
			Domain									
			Role User									
			Phone Not pro	Number ovided								
3 of	f3 25 🗸 🔇	< 1 > >>	User ID)								

In the popup that opens, you can select the **Role** from the list of available ones in the drop-down.



You may **Save** the changes once you have assigned the required role.

Note: If the selected users own accounts or possesses some admin privileges such as approval privileges, you won't be able to downgrade the role the user until alternative arrangements are made.

To change the role of a user, you can also **Edit** the user attributes, and pick the required role.

V	Ρ	rivileged Account Manage	er								Q ← Search Acco	punts	8~
	Das	hboard Accounts	Folders	Users	Groups	Audit	Sessions	Rep	orts	Admin			
I		All Users 🗸	Add - More - Q	Edit	User								
1	~	Frankel Lampard frenkid@gmail.com User		First N Perry					Last Name Theplat				
1	~	Perry Theplat perry@preey.com User	4 / 0	Email * perry(@preey.com								
(Securden Administrator localadmin@securden.com Administrator		Role in User Us	Securden			~	Phone Nur	mber			
				Ac	uditor eccount Manager Iministrator uper Administrator Cancel				Location				
1 te	o 3 of	f3 25 🗸 🔍	< 1 > >										

Default User Roles

There are five predefined user roles in Securden PAM with privileges as explained below:

- **Super Administrator** This is like an emergency/break-glass account which allows viewing all the work-related passwords stored in the application. They can also view the overall administration of the application, including user management.
- Administrator They can administer the application, including user management. Unlike super administrators, administrators can see only the passwords that are owned by them and the ones that are shared with them.
- Account Manager They can add accounts to the application. They can also perform all administrative tasks related to the accounts.
- User They can view the accounts shared by administrators. They can manually add accounts and share them with others. (They do not have the privilege to import accounts). If needed, you can disable account addition privilege for users.

• **Auditor** - They can view the reports and audit trails generated in the application. They can manually add accounts and share them with others.

Custom User Roles

Other than the predefined/default roles, you can also create custom user roles based on the specific needs of the organization. You can assign features at a granular level by selecting specific features under each category.

To create custom user roles, navigate to **Admin >> Customization >> Custom User Roles.**

💙 Privileged Ac	count Manage	r									Q٧	Search Accounts	8	~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admir	n					
		Q Search												
		Account Manag	ement		Customizati	on		Security						^
		ዿ Account Types			🙀 Custom User	Roles]	ዷ Domain Adn	ministrato	or Groups				l
		Password Policy			Gecurden Ag	ent Text Customizatio	n	⊘ Change Enc	ryption K	ey Location				l
		Gevice Level Confi	gurations		Se Configuration	ns		IP Address F	Restrictio	ons				l
		SSH Templates Fo	or Password Reset		🐻 Logo, Theme	and Text		Block Acces	SS					I.
		Event Listener			API Access	on Token For API Acce	SS	Remote Ses		and Recording	s			
		Approval Workfl			Authenticati			Assets for R	count - As					
https://localhost:5959/	dashboard	Privilege Elevati	on & Delegatio	n	Email to SMS	S Gateway		🛱 Session Rec						•

In the page that opens, click on the **Create Custom Role** button.

	Account Manager									Q ✓ Search Accounts	
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Admin > Custom	User Roles										
Custom Us	ser Roles										
You can creat modified, the	e custom user roles ass changes will have to be a	igning specific accer upproved by another a	ss permissions to us administrator.	ers based on the s	specific needs of y	our organization. You	can assign features a	at granular level se	lecting specific features.	After creating a role, if the permissions are t	o be
Q C 111	Create Custom Role	Delete Roles								Showing 1 to 5 of 5	25 🗸
Role Name	÷			D	escription				Status	Actions	
Account N	lanager			A	II account manage	ment features			✓ Active	R / 🗇	
Administra	ator			A	II features accessit	ble			✓ Active	S. / 🗇	
				G	eneral access and	auditing features			✓ Active	i	
Auditor				A	II features enabled				✓ Active	R / 11	
Auditor Super Adm	ninistrator										
	ninistrator			G	eneral access				✓ Active	R / 🔟	

This opens up the role creation page. Each custom role can be given selected privileges from the following categories:

- Account Management
- Folder Management
- User Management
- Group Management
- Audit
- Reports
- Sessions
- Admin Operations
- Miscellaneous

hboard Accounts	Folders Users	Groups Audit	Sessions Reports	Admin		
		oroups Addit	ocasiona neporta			_
in > Custom User Roles > Create a C	ustom Role					
ate a Custom Role						
ou can create custom user roles fror	n here. You need to select the privileges re	quired for the role from the list below.				
lame*						
and Generator						
lescription						
enerate reports						
Features						
Select All Features						
Select All Features	Add Account	Edit Account	Import Work Accounts	Discover Accounts	Delete Accounts	
Select All Features Account Management	Add Account Clone Account	Edit Account Transfer Accounts	Import Work Accounts Accounts Color Coding	Discover Accounts View Password History	Delete Accounts Accounts Reports	
Select All Features Account Management View Account Details						
Select All Features Account Management View Account Details Share Accounts	Clone Account	Transfer Accounts	Accounts Color Coding	View Password History	Accounts Reports	

To create a custom role, you need to enter the **Role Name** you want to create and a suitable **Role Description.** You may then select the privileges you would like to provide for this new role.

Users assigned with a custom role will be able to carry out select operations in PAM based on the privileges provided to them here.

Once you have selected role privileges, click on the **Save** button to finish role creation.

Note: A new custom role will have to be approved by an administrator other than the one creating it for it to take effect and be available in the product.

Privileged A	ccount Manager										Q ← Search Accounts	1
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Admin 🗲 Custom U	ser Roles											
Custom Us	er Roles											
	custom user roles assig other administrator.	ning specific acces	s permissions to us	ers based on the sp	ecific needs of yo	ur organization. You c	an assign features at	granular level select	ing specific features. After crea	ating a role, if the permission	s are to be modified, the changes will I	nave to be
Q (C) III	Create Custom Role	Delete Roles									Showing 1 to 6 of 6	25 🗸
Role Name :					De	scription				Status	Action	1
Account Ma	nager				All	account managemen	t features			✓ Active	R /	Ш.
Administrat	or				All	features accessible				✓ Active	R /	1
Auditor					Ge	neral access and audi	ting features			✓ Active	R /	Ω.
Reporter										Approve/Reject	u /	D
Super Admin	nistrator				All	features enabled				✓ Active		ΰ.
User					Ge	neral access				✓ Active	R /	1
howing 1 to 6 of 6	25 🗸											> >>

The new administrator can review the privileges of that role and **Approve** or **Reject & Delete** this new role.

	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
> Custom Us	ser Roles > Approve/Re	eject User Roles	0.0000000					A Constraints			
ronormiy on		uotom dour toru.									
ne											
r -											
cription											
eatures											
u can specify	y the operations for wh	hich the token generated	d here would be a	applicable. In other words	, the API, with t	this token, cannot be use	ed for operations	ther than the ones	selected below.		
Account M	lanagement										
Account M View Acco											
View Acco											
View Acco	ount Details	Concise Reports		Password Analys	is Report	Export Reports		Dashboard Re	ports		
View Acco Reports	ount Details	Concise Reports		Password Analys	is Report	Export Reports		Dashboard Re	ports		
View Acco Reports	ount Details	Concise Reports		Password Analys	is Report	Export Reports		Dashboard Re	ports		

List of privilege operations for custom user roles

Securden PAM has a comprehensive set of privileges that can be modified for each custom role. All such custom role privileges have been explained in the table that follows.

Custom Role Feature	Description
Accoun	t Management
View Account Details	Users with this privilege will be able to view the details for all accounts to which they have access. (Accounts owned by
Add Account	them/shared with them) Users with this privilege will be able to add accounts to the centralized repository. They will be the owners of the accounts they added.
Edit Account	Users with this privilege will be able to edit the attributes of all accounts to which they have access.
Import Work Accounts	Users with this privilege can import work accounts into the database. (Work accounts can be shared with other users, and can be viewed by the Superadmin)
Discover Accounts	Users with this privilege can run an account discovery process and onboard privileged accounts from various IT

as	sets, including servers, databases, and
oth	her devices.
Delete Accounts Us	ers with this privilege can delete
ac	counts owned by them/shared with
the	em.
Share Accounts Us	ers with this privilege will be able to
sh	are the accounts they own with other
us	ers with granular access permissions.
Clone Account Us	ers with this privilege will be able to
ma	ake a copy of the selected accounts
wit	th all the account details duplicated.
Clo	oned accounts will carry the suffix
'cc	рру'.
Transfer Accounts Us	ers with this privilege will be able to
tra	ansfer ownership of the accounts they
ow	vn to other users added in Securden.
Accounts Color Coding Us	ers with this privilege will be able to
ch	ange the background display color for
all	accounts to which they have modify
ac	cess permission.
View Password History Us	ers with this privilege will be able to
vie	ew all the previous passwords assigned
to	accounts to which they have 'View'
ре	rmissions.
Accounts Reports Us	ers with this privilege can view
inc	dividual account reports for accounts
pro	esent in Securden.
Offline Access Us	ers with this privilege will be able to
ma	ake offline copies of the accounts they
ha	we access to. The offline copy will be
pro	otected with a passphrase chosen by
the	e user.

Export Accounts	Users with this privilege will be able to
	export all the accounts they have access
	to in a CSV or XLSX file.
Associate Private Keys	Users with this privilege will be able to
	associate private keys (SSH) with the
	accounts to which they have 'Modify'
	access permissions.
Bulk Password Policy Change	Users with this privilege will be able to
	carry out password policy changes for
	multiple accounts at the same time. The
	user should have "Modify" access
	permissions to all the selected accounts
	in addition to this ability to be able to
	carry out bulk password policy change.
Bulk Folder Change	Users with this privilege will be able to
	carry out a folder change for multiple
	accounts at the same time. The User
	should have "Modify" access permissions
	to all the selected accounts and the
	destination folder in addition to this
	ability to be able to carry out folder
	change.
Configure Approval Workflow	Users with this privilege will be able to
	configure approvers for request release
	workflows. The user will need to have
	'Manage' access permissions for the
	account involved to be able to configure
	approvers.
Account Dependencies	Users with this privilege will be able to
	fetch the dependencies of accounts they
	have access to.

Add Folder from Folder Tree	Users with this privilege will be able to
	add a folder from the folder tree option
	that is available to the left of the accounts
	list.
Account Settings	Users with this privilege will be able to
	modify the preferences available in the
	Account Settings section.
Manage Personal Passwords	Users with this privilege will be able to
	generate and rotate passwords of their
	personal accounts.
Import Personal Accounts	Users with this privilege will be able to
	import personal accounts (such as
	internet banking credentials,
	membership accounts, streaming service
	account credentials, etc.)
Configure Autofill URLs	Users with this privilege will be able to
	configure auto-filling credentials on URLs
	to accounts they have access to.
Configure TOTP	Users with this privilege will be able to
	configure TOTP generation for specific
	accounts for which MFA has been
	enabled.
Share with Third Parties	Users with this privilege will be able to
	share the account with third parties and
	specify a time period until which they
	have access to the account. They can
	also choose to rotate the password once
	third party access ends.
Add Tags in Bulk	Users with this privilege will be able to
	add tags to multiple accounts at the same
	time.
	·

Folder Management	
Add Folder	Users with this privilege will be able to add folders to Securden.
Edit Folder	Users with this privilege will be able to edit different attributes of folders to which they have access.
Import Folders	Users with this privilege will be able to import folders and their structure from files.
Delete Folder	Users with this privilege will be able to delete folders to which they have access to.
Transfer Folders	Users with this privilege will be able to transfer ownership of folders that they own (Along with the accounts it contains).
Share Folders	Users with this privilege will be able to share folders with other users with a granularity they choose.
Configure Remote Password Reset	Users with this privilege will be able to schedule remote password resets for all accounts in the folders they have access to.
Folder Reports	Users with this privilege will be able to view the reports section of folders they have access to.
Folder Settings	Users with this privilege will be able to view and change the preferences in the

	'Settings' section of the folders they can
	access.
Configure Approval Workflow	Users with this privilege will be able to
	designate approvers for accounts in a
	folder for request-release workflows.
Change Folder Inheritance in Bulk	Users with this privilege will be able to
	modify inheritance permissions
	preferences for multiple folders at the
	same time.

User Management

Add User	Users with this privilege will be able to
	add other users to Securden.
Edit User	Users with this privilege will be able to
	edit attributes of existing users such as
	roles, permissions, etc.
Import Users from File	Users with this privilege will be able to
	import users into Securden from a CSV or
	an XLSX file.
Delete Users	Users with this privilege will be able to
	permanently delete existing users in
	Securden.
Import Users from AD	Users with this privilege will be able to
	import users from AD using existing
	Active Directory domain credentials.
Import Users from Azure AD	Users with this privilege will be able to
	import users from Azure AD using
	existing domain credentials.

Import Users from LDAP	Users with this privilege will be able to
	import users from LDAP using existing
	domain credentials.
Transfer Ownership	Users with this privilege will be able to
	transfer the ownership of all the accounts
	owned by them.
Concurrent Logins	Users with this privilege will be able see
	if any users have concurrently signed in
	to Securden on another device or
	browser, and will also be able to
	terminate any or all the logins, which will
	forcefully log out the user from Securden
	GUI.
User Reports	Users with this privilege can view and
	access all the user-related details under
	'Report' section in the 'Users' tab.
Configure temporary Access	Users with this privilege will be able to
	grant temporary access to Securden web
	interface to selected user(s) by
	specifying access expiration time.
Change User role	Users with this privilege will be able to
	change the roles of other users.
Control Application Access	Users with this privilege can allow or
	deny access to other user(s) to access
	the Securden interface.
Change 2FA	Users with this privilege can alter the
	two-factor authentication login method
	used by the selected users(s) to access
	the Securden interface.
Change Radius Authentication in Bulk	Users with this privilege can alter RADIUS
	authentication for many users at once.

Reset passwords of accounts accessible	Users with this privilege can reset the
to a user	passwords of accounts that are
	owned/shared with them.
Add Users to Groups	Users with this privilege will be able to
	add other users to groups.

User Group Management

Add User Group	Users with this privilege will be able to
	create new user group(s) in Securden.
Edit User Group	Users with this privilege will be able to
	edit user groups.
Delete User Group	Users with this privilege will be able to
	delete user groups. Deleting user groups
	does not delete the users in them.
User Group Reports	Users with this privilege will be able to
	view reports specific to user groups.
Import User Groups from AD	Users with this privilege will be able to
	import user groups from AD using
	existing domain credentials.
Import User Groups from Azure AD	Users with this privilege will be able to
	import user groups from Azure AD using
	existing domain credentials.
Import User Groups from LDAP	Users with this privilege will be able to
	import user groups from LDAP using
	existing domain credentials.
Change 2FA in Bulk	Users with this privilege will be able to
	change the 2FA method used by users in
	a user group to login to the Securden
	interface.

View Account Activity Trails	Users with this privilege will be able to
	view and access all the records of
	account-related activities.
View User Activity Trails	Users with this privilege will be able to
	view and access all the records of user-
	related activities.

Reports

Standard Reports	Users with this privilege will be able to
	access all the standard reports, which
	include the following reports: Account
	access, Account Activity, Password
	Compliance, Password Expiry, User
	Access, User Activity, Dependencies,
	Processes and Software Inventory,
	Processes Inventory, Software
	Inventory, and Securden Agents on
	Computers.
Concise Reports	Users with this privilege will be able to
	view and access concise/micro reports
	pertaining to accounts and users.
	(Reports >> Concise Reports)
Password Analysis Report	Users with this privilege will be able to
	view the password security analysis
	report. This includes the Work Account
	Analysis report and Personal Accounts
	Analysis report.
Exported Report	Users with this privilege can view all the
	reports that were exported and
	downloaded by other users.

detailed summary of all the users and accounts present on the dashboard.	
accounts present on the dashboard.	
decounts present on the dustibution	
Sessions	
Users with this privilege will be able to	
view and play back all the recorded	
sessions of other users.	
Users with this privilege can shadow and	
monitor ongoing sessions of other users.	
They can also terminate these sessions.	

Admin Operations

	· · · · · · · · · · · · · · · · · · ·
Manage Account Types	Account Types define the type of
	accounts being added under 'Work' and
	'Personal' accounts in Securden. Users
	with this privilege will be able to add
	custom account types or edit and delete
	existing account types.
Manage Password Policies	Password policy in Securden helps you
	define the strength, complexity
	requirements, periodicity for password
	resets and other conditions. Users with
	this privilege will be able to add/delete a
	password policy and perform all actions
	related to it. (Under Admin >> Account
	Management > Password Policy)
Manage Event Listeners	You can trigger an action after the
	occurrence of any specific event or a

	sequence of events in Securdan For
	sequence of events in Securden. For
	example, when the password of an
	account is changed, you can trigger a
	follow-up action automatically. This
	privilege lets the user add/delete and
	manage the listeners.
Device Level Configurations	A user with this privilege will be able to
	manage all device level configurations
	that includes managing remote
	credentials, session recording, remote
	gateway, and reports.
Manage SSH Templates	You can define customized templates to
	carry out remote password resets on
	devices that can be connected through
	SSH. Users given this privilege will be
	able to add, define, delete, and manage
	all actions related to SSH templates.
Approve Password Access Requests	Users with this privilege will be able to
	approve all the requests from other users
	to access certain passwords.
Technician Access Policies for Specific	Users with this privilege can create
Users and Specific Computers	policies authorizing specific technicians to
	perform administrative tasks on specific
	endpoints.
Technician Access Policies for all Users	Users with this privilege can create
and all Computers	policies authorizing all the users
	(technicians) to perform administrative
	tasks on all endpoints.
Delete Technician Access Policies	You can create policies authorizing
	specific technicians to perform
	administrative tasks on specific
	endpoints. Users with this privilege will

	be able to delete all the existing
	technician access policies.
Add Applications, Commands for	Users with this privilege will be able to
Privilege Elevation	add applications/commands for
	performing privilege elevation. (Elevating
	the privileges for applications (in
	Windows) and allowing users to run with
	specific commands with SUDO privileges
	in Linux.)
Configure Privilege Elevation Policies	Users with this privilege can define and
	manage control policies for seamless, on-
	demand elevation of applications for
	standard users (in Windows) and
	elevation of specific commands with
	SUDO privileges on Linux.
Remove Admin Rights	Users with this privilege will be able to
	remove admin rights of any number of
	users on any number of computers.
Manage Securden Agents	'Privilege Elevation and Delegation'
	operates when a Securden agent is
	installed at all endpoints. Users with this
	permission will be able to manage the
	agent across all the endpoints.
Manage Event Notifications	Securden can send email notifications
	upon the occurrence of certain events
	such as password retrieval, deletion,
	change in share permissions, and others.
	Users given this privilege will be able to
	configure the event notifications.
Manage Expiration Notifications	You can send email notifications a certain
	number of days prior to the expiration
	date of the passwords to serve as a

			reminder to change the password. Users with this privilege will be able to manage the notifications sent during password expiry.
Manage	Breached	Passwords	Securden can periodically scan the
Identification			breached passwords database and check
			if any of the passwords stored in the
			product matches with the passwords that
			have been exposed in known data
			breaches. Users with this privilege can
			enable this feature and configure how
			often Securden should check for
			breached passwords.
Manage Accou	unt Expiration N	lotification	You can keep track of the expiration
			dates of license keys and certificates
			stored in Securden. You can send email
			notifications a certain number of days
			prior to the expiration date to serve as a
			reminder. Users with this privilege will be
			able to configure this expiration
			notification for accounts.
Manage Custo	om Roles		You can create custom user roles
			assigning specific access permissions to
			users based on the specific needs of your
			organization. Users with this privilege will
			be able to create customized user roles
			with varied features.
Securden Age	ent Text Custom	nization	You can customize the labels and
			messages in the Securden Agent
			interface. Users with this privilege will be
			able to modify the text of the interface.

Manage Configuration Settings	You can customize the features of
Manage Configuration Settings	
	Securden in a granular manner. You can
	switch on and switch off certain features
	anytime as desired under the
	'Configurations' section in the 'Admin'
	tab. Users with this privilege will be able
	to access it.
Customize Logo, Text	You can replace the Securden logo that
	appears in the login page and also the
	text that appears throughout the GUI as
	you wish. Users with this privilege will be
	able to customize it.
Change Product Language	Securden supports multiple languages,
	and you can carry out the desired
	language selection. Users with this
	privilege will be able to change the
	product language.
Access and Manage APIs	Securden provides APIs for querying the
	database programmatically, retrieving
	credentials, and performing various other
	tasks. Users with this privilege will be
	able to create authentication tokens for
	carrying out various operations using
	APIs.
Configure 2FA	You can enforce a second layer of
	authentication for your users to access
	their Securden account. Users with this
	privilege will be able to activate two-
	factor authentication.
Manage Email to SMS Gateway	As part of two-factor authentication,
	Securden integrates with Email to SMS
	gateway providers to send one-time
	gateria, providero to seria one time

	passwords as SMS to the phone numbers
	of the users. This privilege lets users
	configure this feature.
Manage Duo Configuration	Securden integrates with Duo Security
	for two factor authentication. Once
	configured, users will be enforced to
	authenticate through Duo for accessing
	the web interface. Users given this
	privilege will be able to configure this
	feature.
Configure RADIUS Server Settings	You can integrate RADIUS server or any
	RADIUS-compliant two-factor
	authentication system like OneSpan
	Digipass, RSA SecurID, Swivel Secure
	etc. for the second factor authentication.
	Users given this privilege will be able to
	configure these settings.
Smart Card Authentication	If your organization uses smart cards for
	authenticating user logons, you can
	leverage the same for Securden
	authentication. Users given this privilege
	will be able to enable smart card
	authentication.
Manage SIEM Integration	You can periodically share privileged
	access data logs with SIEM solutions.
	access and logs man size solutions
	Users given this privilege will be able to
	5
	Users given this privilege will be able to
Manage SAML SSO Integration	Users given this privilege will be able to manage the Syslog configuration in
Manage SAML SSO Integration	Users given this privilege will be able to manage the Syslog configuration in Securden.
Manage SAML SSO Integration	Users given this privilege will be able to manage the Syslog configuration in Securden. Securden leverages SAML 2.0 to integrate with SAML-compatible
Manage SAML SSO Integration	Users given this privilege will be able to manage the Syslog configuration in Securden. Securden leverages SAML 2.0 to

	OneLogin, PingIdentity, Azure AD SSO,
	and others for Single Sign On. Users
	given this privilege will be able to enable
	SAML SSO and configure it.
Manage Ticketing System Integration	Securden integrates with web-based
	ticketing systems. The integration helps
	trace specific activities like password
	retrieval in Securden to corresponding
	entries in the ticketing system. This
	privilege lets users activate and configure
	ticketing system integration in Securden.
Manage Mail Server Settings	Securden sends various email
	notifications to the users and to facilitate
	that, SMTP server details are to be
	configured. Users with this privilege will
	be able to configure the server settings.
Manage Proxy Server Settings	If your organization makes use of a proxy
	server to regulate internet traffic, you
	should configure the proxy server details
	in Securden to connect to the internet.
	Users who are given this ability will be
	able to configure the proxy server
	settings.
Manage Securden Server Connectivity	Securden server connectivity specifies
Settings	how client machines connect to the
	Securden web interface and the name
	with which client machines identify the
	Securden server host when deploying
	agents. Users who are given this privilege
	will be able to configure these settings.
Manage Securden License	Users with this privilege can apply for the
	Securden license key and get information

	about the existing license from the
	'Admin' section. Users who are given this
	privilege will be able to view the available
	information about the existing license,
Managan Damain Administrator Crowne	and also can apply for a new license.
Manage Domain Administrator Groups	You can create a scheduled task to get
	notified if there is any modification in the
	domain administrator groups. Users with
	this privilege will get access to the
	Domain Administrator Groups and can
	also schedule the notifications.
Change Encryption Key Location	Every installation of Securden is
	protected with a unique encryption key.
	Securden doesn't allow the encryption
	key and the encrypted data to reside in
	the same location to ensure security.
	Hence, the key has to be moved outside
	the Securden installation folder. Users
	who are given this privilege will be able
	to change the location of the encryption
	key.
Manage Certificate-based Authentication	To meet the demands of remote work
	scenarios, you can enable all or select
	users of your organization to securely
	access the Securden web interface over
	the internet. This access requires
	configuring an additional security
	measure by way of certificate-based
	client authentication. This privilege lets
	users enable certificate-based
	authentication and configure it.

Manage IP-based Restrictions	You can control access to Securden
	server based on the IP addresses of
	users. Users with this privilege will be
	able to enable IP restrictions for other
	users.
Managa Llear Access to Securdan	
Manage User Access to Securden	If required, you can block access to
	Securden server from the browser
	extensions, APIs, and mobile apps. Users
	who are given this privilege will be able
	to block access, which will take effect for
	all users, including the super admin
	globally.
Configure Remote Gateway	By default, all remote sessions launched
	from end user machines are tunneled
	through the Securden server, which acts
	as the gateway. There will not be any
	direct connectivity between the end user
	machines and the target device. For
	enhanced security, you may route all
	remote operations originating from
	Securden through a single, dedicated
	gateway (instead of Securden server
	acting as the gateway). Once configured,
	Securden will route all operations,
	including remote connections, session
	recording, and password resets through
	the gateway. Users who are given this
	privilege will be able to configure the
	remote gateway.
Configure Session Recording	You can record the various remote
	privileged sessions initiated by users
	from Securden GUI. The recordings can

	then be played back as a video. Users
	who are given this privilege will be able
	to enable session recording.
Use Advanced Session Recorder for	To record the sessions on remote
Windows	computers, you need to install Securden
	session recorder on the machines whose
	sessions are to be recorded. Users with
	this privilege will be able to deploy this
	advanced session recorder.
Deploy Application Servers	If your IT assets/privileged accounts are
	distributed across multiple networks and
	if you want to manage all those devices
	using Securden, you should deploy
	Securden Application Servers in each of
	those networks and also associate each
	application server with a remote
	gateway. Users who are given this
	privilege will be able to deploy it.
Configure Unix Connectors	You can associate the UNIX connector
	with the required devices. Once you
	associate, all remote connections and
	remote operations (including session
	initiation, session recording, remote
	password resets, and password
	verification) to the devices associated will
	be initiated through the connector. Users
	with this privilege will be able to
	configure it.
Configure Database Backup	To ensure access to your data and
	passwords even in the unlikely scenario
	of something going wrong with the
	current installation, Securden offers

	disaster recovery provisions. You can
	take backup of the entire database
	periodically. Users who are given this
	privilege will be able to schedule the
	backup.
Configure High Availability	To ensure uninterrupted access to the
	web application, Securden comes with
	high availability architecture. You can
	deploy any number of additional
	application servers, which would serve as
	the secondary servers. In the event of
	the primary server going down, users can
	connect to any of the secondary servers.
	Securden agents will also connect to the
	secondary server, when the primary goes
	down. Users who are given this privilege
	will be able to set this feature on and
	configure the secondary application
	server(s).
Maintenance and Upgrades	Users who are given this privilege will be
	able to access 'Product Upgrades' section
	where the latest product updates, release
	notes, and the steps to upgrade the latest
	version are present.
Configure Emergency Access	You can enable a designated list of users
	to access all passwords (work accounts)
	stored in Securden, breaking the usual
	access controls. This is to meet password
	access needs during certain
	emergencies. Users who are given this
	privilege will be able to configure the
	emergency access.

Configure Assets and Assets Association	Users who have this privilege can add
for Remote Connections	their IT assets to Securden and configure
	the association between domain accounts
	and assets for launching remote
	connections.
User Assets Association for Remote	You can allow your users to launch
Connections	remote connections to specific resources
	using the AD account with which they
	have logged in to Securden. You can
	associate the IT assets with the users,
	which will permit them to launch the
	connection with the assets allotted. This
	privilege lets the user configure the
	association between users and assets for
	launching remote connections.
Configure Expired Password Rotation	Securden can automatically rotate
	passwords for accounts that support
	remote password reset when they expire
	or are about to expire. Users who have
	this privilege will be able to configure the
	password rotation upon expiration.
Configure Custom Application Launcher	In addition to the default modes of
	launching web-based connections and
	through native clients, you can define
	custom application launchers to supply
	credentials and automatically launch any
	application, including thick application
	clients. Users who have this privilege will
	be able to create a profile for any such
	application and manage them in
	Securden to launch remote connections.

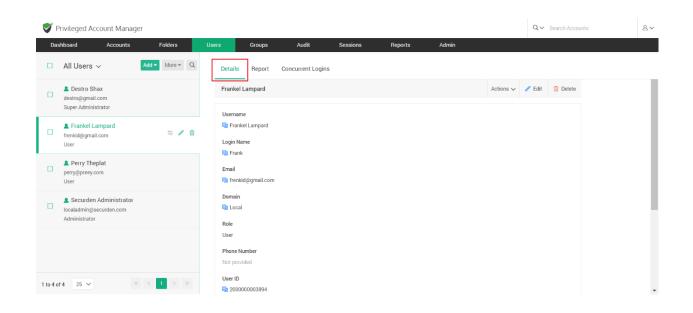
Manage Global Tags	When user tag creation is disabled, they
	have the option to select from tags
	created globally. So, the user with this
	privilege will be able to create, edit, and
	delete global tags.

Miscellaneous

Access Browser Extensions	Users with this privilege can access
	browser extensions to facilitate auto-fill
	of credentials on websites and web
	applications.
Manage Browser Extensions	Users with this privilege will be able to
	manage and configure the browser
	extension settings.
Use Windows Remote Launcher	Users with this privilege will be able to
	launch RDP and other remote
	connections from Securden web
	interface.

User Details

You can get detailed information about user accounts from the **Details** tab when you select each user.



The details contain main information such as the Username, Login Name, Email address, Domain name, and their role.

Other details include the Phone number, 2FA status, Application Access, Location, and User ID.

User ID is particularly useful for making use of APIs to retrieve or modify user information. You can copy the User ID with the icon available beside it.

V I	Privileged Account Manag	ger							Q ← Search Account	ts	8
Da	shboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
	All Users $\!$	Add More Q	Details	Report	Concurrent Login	s					
	Lestro Shax destro@gmail.com Super Administrator		Role User								
	Frankel Lampard frenkid@gmail.com User	# / 1	Phone I Not pro User ID	vided							
	Perry Theplat perry@preey.com User			0000003894 ctor Status d							
	Securden Administrator localadmin@securden.com Administrator		Applica Enabled	tion Access							
			Departm Not pro	vided							
		_	Locatio Not pro								
ittps://	localhost:5959/dashboard	« < 1 > »									

Keeping users in Synchronization with your Active Directory

You can select the **Sync User** option to sync the user details with your AD. If the user has been deleted from AD, they will be disabled in Securden.

Note: This is only applicable for users imported from domain, and not for manually added users or those imported from a file.

	Privileged Account Manag								Q ✓ Search Acco	ounts	
Das	shboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
	All Users 🗸	Add More Q	Detail	s Report	Concurrent Logi	ns					
	<mark>■ Sanjay M.</mark> sanjay@testkarthikrajasoutlook Auditor	.onmicros 🖴 🥒 🏥	Sanja	y M.					Actions 🗸 🥒 Ed	it 🔟 Delete	
			Userna E Sar						[O Sync User	
			Login 🗐								
			Email								
			Domai		DM (SECURDEN-AWS)	1					
				guished Name anjay M.,OU=QA,	OU=AllUsers,DC=SEC	JRDEN,DC=AWS,DC=C0	DM				
50 s://d	of 62 50 V		Role								

User Reports

Under the User Report, you can view a comprehensive summary of a particular user account. It gives you a detailed report on what all accounts have been accessed and what permissions a user has on each account.

💙 F	Privileged Account Manager								Q ✓ Search Accounts	
Das	shboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
	All Users 🗸 🖌 Add	More • Q	Details	Report	Concurrent Login	S				
	Destro Shax destro@gmail.com Super Administrator		Securden	Admini	Export 🗸					
	Frankel Lampard frenkid@gmail.com Account Manager		Summa Account	ary ts owned by t	this user		4	Most Accessed Accounts (D	Hitchhiker
	Perry Theplat perry@preey.com Account Manager		Account		l by this user		1 3			
	Securden Administrator localadmin@securden.com Administrator	5 / 11		ts shared wit I accounts o	h this user wned by this user		0			
			Accoun	nt Usage Sta	atistics 🕕					
to 4 o	of 4 25 🗸 « <	1 > >>	1	-						

Account Usage Statistics

Here, you can see the day-wise statistics of different activities carried out by the user account such as password retrievals, remote connections launched, and password auto-fills on websites.

Ø P	rivileged Account Manage	r								Q ✓ Search Acc	counts	2
Das	hboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
	All Users ∨	Add More Q	Details	Report	Concurrent Login	S						
	Destro Shax destro@gmail.com Super Administrator			nts shared with al accounts ov	this user med by this user		0					
	Frankel Lampard frenkid@gmail.com Account Manager											
	Perry Theplat perry@preey.com Account Manager		Accou	nt Usage Sta	tistics (j)							
	Securden Administrator localadmin@securden.com Administrator	\$ / (1)	1									
			0	24 Jul	23 Jul	22 Jul	. 21	Jul	20 Jul	19 Jul	18 Jul	
o 4 of	4 25 ~ «	< 1 > >										

Access Details

This gives you the list of accounts owned by a user and the accounts that are shared with them. Alongside this, it shows the level of access permissions (Manage, Modify, View, and Open Connection) that the user has on different accounts.

Das	hboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
]	All Users ∨	Add More Q	Details	Report	Concurrent Logins							
1	Destro Shax destro@gmail.com Super Administrator		Access	Details								
	💄 Frankel Lampard		QC								Showing 1 to 6 of 6	25 🗸
ן	frenkid@gmail.com Account Manager		Account Tit	le t	Account Address		Manage	Modify	View	Open Connection	Tags	
	Jonathan Ridge		Domain Ad	min	192.164.23.1		×	×	×	~		
]	john@gmail.com Administrator		Email login		192.168.72.2		~	~	~	~		
	Perry Theplat		File				~	~	~	~	Mark	
]	perry@preey.com Account Manager		Hitchhiker				~	~	~	~		
	Securden Administrator		Server3		173.134.23.4		\checkmark	~	~	~		
]	localadmin@securden.com Administrator	4 / 0	Test		test		~	~	~	~		•

User Activity

User Activity explains the 'where', 'when', and 'what' of various activities performed by a user.

Privileged Account Manage	er					Q ← Search Accounts
Dashboard Accounts	Folders	Users Groups	Audit Sessions	Reports	Admin	
All Users V	Add - More - Q	Details Report	t Concurrent Logins			
Destro Shax destro@gmail.com Super Administrator		Q C III				Showing 1 to 25 of 142 $$25^{\circ}$\!$
ouper Automotive		Performed From	Performed At 😄	Activity Type	Username	Reason
Frankel Lampard frenkid@gmail.com		W10PF2YAS0P	24 Jul 2023 23:00	User logged in	N/A	Securden Authentication
Account Manager		W10PF2YAS0P	24 Jul 2023 22:57	User logged out	N/A	
Jonathan Ridge		W10PF2YAS0P	24 Jul 2023 22:57	User added	Jonathan Ridge	
Administrator		W10PF2YAS0P	24 Jul 2023 22:49	User role changed	Frankel Lampard	B Role changed from User to Ac
Perry Theplat		W10PF2YAS0P	24 Jul 2023 22:49	User role changed	Perry Theplat	Role changed from User to Ac
Account Manager		W10PF2YAS0P	14 Jul 2023 15:09	Emergency access ena	abled N/A	
Securden Administrator	\$ / 11	W10PF2YAS0P	12 Jul 2023 14:35	Inactivity period for log	gout modifi N/A	📵 Inactivity Timeout Changed
Administrator		W10PF2YAS0P	12 Jul 2023 14:24	User logged in	N/A	Securden Authentication
5 of 5 25 🗸 «	< 1 > >>	W10PF2YAS0P	06 Jul 2023 16:14	User logged out	N/A	🕒 User logged out due to inactiv
5 of 5 25 ∨ ≪		W10PE2VAS0P	05 Jul 2022 15:51	Liser logged in	N/A	Securdan Authentication

Account Activity

Account Activity gives the list of accounts and the actions carried out on those accounts.

🍠 P	rivileged Account Manage	r								Q∨ Search	Accounts
Das	shboard Accounts	Folders	Users G	Groups	Audit	Sessions	Reports	Admin			
	All Users $ \!$	Add More Q	Details	Report Conc	urrent Logins						
	Destro Shax destro@gmail.com Super Administrator		Account Ac	-						Shov	ving 1 to 25 of 37 $$ 25 $$ $$ $$
	Frankel Lampard frenkid@gmail.com		Account Title	Ac	count Address	Acti	vity Type	Performed From	Perform	ned At 💠	Reason
	Account Manager		Server3	17	73.134.23.4	Acc	ount shared with user	W10PF2YAS0P	24 Jul	2023 22:55	🗐 Shared to Perry Th
	▲ Jonathan Ridge john@gmail.com		Server3	17	73.134.23.4	Acc	ount connectivity chec	k f W10PF2YAS0P	24 Jul	2023 22:55	🗐 Domain unreachab
	Administrator		Server3	17	73.134.23.4	Acc	ount added	W10PF2YAS0P	24 Jul	2023 22:55	
	Perry Theplat		Server3	17	73.134.23.4	Acc	ount added to folder	W10PF2YAS0P	24 Jul	2023 22:55	ا Account 'Server3' ۵
	perry@preey.com Account Manager		Test	te	st	Pas	sword verification faile	d W10PF2YAS0P	24 Jul	2023 22:53	🖶 Credentials for per
	Securden Administrator		Test	te	st	Acc	ount connectivity chec	k f W10PF2YAS0P	24 Jul	2023 22:53	🖶 Computer unreach
_	localadmin@securden.com Administrator	→ <i>v</i>	Test	te	st	Acc	ount password change	ed I W10PF2YAS0P	24 Jul	2023 22:53	
		_	Test	te	st	Acc	ount password retrieve	ed W10PF2YAS0P	24 Jul	2023 22:52	
o 5 o	f5 25 ~ «	< 1 > >	Hitchhiker	N	/A	Acc	ount password retrieve	d W10PF2YAS0P	24 Jul	2023 22:51	

Groups this user is a part of – User groups that the selected user is part of.

Das	shboard Accounts	s Folders	Users	Groups	Audit	Sessions	Reports	Admin			
	All Users $ \smallsetminus $	Add More Q	Details	Report	Concurrent Logir	15					
	Chris chris@gmail.com User		Showing	1 to 3 of 3 25	~					« < 1	
	Destro Shax destro@gmail.com Super Administrator			this user is	a part of						
	Frankel Lampard frenkid@gmail.com Account Manager	± / ₩	Q C Group Na				Group Description		Domain	Showing 1 to 3 of 3	25 🗸
	Jonathan Ridge john@gmail.com Administrator	≒ ∕ ₪	IT Team						Local		
	A Matthew Hart mhart@gmail.com User		Sysadmir Showing	1 to 3 of 3 25	~				Local	« < 1	

Directly shared folder(s) details – Folders that have been shared to this user directly and not shared through a user group.

Dashboard Acco	unts Folders	Users	Groups	Audit	Sessions	Reports	Admin	
All Users \checkmark	Add - More - Q	Details	Report	Concurrent Logins				
dministrator admin_1@securden.com Super Administrator	± ∕ û		shared fo	lder(s) details				
Anish Krishnan Sri anish@securden.com User	dhar	Q C Folder Name	÷	Folder Description	Manage Folder		Add Accounts to Folder	Showing 1 to 23 of 23 25 Yiew Folder
🔩 arry User		API Test Cisco Route	15		× ×		× ×	× ×
Bala Bala bala@securden.com User		Client Servio Databases	es		× ×		✓ ✓	× ×
Bala Govind sakthi@securden.com		File Server			× ×		v v	× ×

V P	rivileged Account Manag	ger						Q~	Search Accounts	
Das	shboard Accounts	Folders	Users	Groups	Audit	Sessions F	Reports Admin	1		
	All Users 🧹	Add - More - Q	Details	Report	Concurrent Logins					
	4 Administrator admin_1@securden.com Super Administrator	ti 🥒 🛍	Group	shared fold	er(s) details					
	룩 Anish Krishnan Sridhar		QC						Showing 1 to 25 of 37	25 🗸
-	anish@securden.com User		Folder Nat	me ÷	Folder Description	Group Name	Manage Folder	Add Accounts to F	older View Folder	
	록 аггу		API Test			Securden Admins	~	×	~	
	User	≒ / 1	Cisco Rou	iters		Administrators	~	×	~	
	💄 Bala Bala		Cisco Rou	iters		Securden Admins	~	~	~	
	bala@securden.com User		Client Ser	vices			~	~	~	
	💄 Bala Govind		Database	s		Administrators	~	~	~	
	sakthi@securden.com Administrator		Database	s		Securden Admins	~	~	~	
to 50	of 64 50 V	« < 1 > »	Database	s		Storage Replica Ad	m 🗸	~	~	

To export the user specific report, Navigate to Users >> (select the required user account) >> Reports >> Export.

All Users ~ Destro Shax destro@gmail.co Super Administra Frankel Lam frenkid@gmail.co Account Manage	x om ator mpard	Q Details Securden A	dmini	oncurrent Logins	5				
destro@gmail.co Super Administra & Frankel Lam frenkid@gmail.co	om rator npard								
frenkid@gmail.co		Summary		PDF					
			·	CSV XLSX		5	Most Accessed Account	s ()	Hitchhiker
Jonathan Ri john@gmail.com Administrator		Accounts	shared by this not shared by t	his user		2 3			
Perry Thepla perry@preey.com Account Manage	m		shared with thi accounts owne			1			
Securden Ad localadmin@sec Administrator	- A		Usage Statist	tics (j)					

You can also click on **Download as PDF** to directly download the report.

User Report can be exported in three different formats such as PDF, CSV, and XLSX.

Monitor Concurrent Logins

You can monitor the concurrent logins of each user.

For example, if a user has logged in to the Securden web interface through the web on multiple browsers, and also through mobile apps, the **Concurrent Logins** section lists out all the different logins.

You can review and even terminate any or all the logins, which will forcefully log out the user from Securden GUI.

V F	Privileged Account Manager								Q ✓ Search Accounts		8
Da	shboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
	All Users ∨	Add More Q	Details	Report	Concurrent Logins						
	Destro Shax destro@gmail.com Super Administrator		If the user ha the user from			on another device	or browser, you will	see the list here. You may choose	to terminate any or all the logins, which	will forcefully lo	ig out
	Frankel Lampard frenkid@gmail.com Account Manager		Note: While lo will take a few	v minutes.		tant for the ones c	onnected with the c	urrent application server, terminatin	ng those connected with the other appli		fany) 25 ∨
	Jonathan Ridge john@gmail.com Administrator		Connected From W10PF2YAS0P			Device PC / Windows 10	/ Chrome 114.0.0	Login Start Time	÷	Action Current Login	20
	Perry Theplat perry@preey.com Account Manager										
	Securden Administrator localadmin@securden.com Administrator	\$ / 11	Showing 1 to 1 of	f1 25 🗸						< 1 >	
to 5 o	of 5 25 🗸	< 1 > »									

User Groups

You can organize the users in your organization as groups in Securden for efficient administration. You can even maintain the same team structure as in the organization. User groups help you carry out multiple operations for numerous users at the same time.

Adding groups can be done in the following ways:

- Import groups from AD
- Import groups from Azure AD
- Import groups from LDAP
- Add groups manually

Navigate to the **Groups** tab and click **Add** in the GUI to perform this step.

V 1	Privileged	Account Manager						Q∨ Search	Accounts	2
Das	shboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports A	dmin	
	User Grou	ps Add 🔻	More 🔻 Q	Members	Report					
	🖏 Ad	ort Groups from AD ort Groups From LDAP	Ŵ	Group Nar Descriptio		Administrato		restricted access to the co	muter/domain	
	All .	ort Groups from Azure AD I Groups Manually		Group ID		1000000001		restricted access to the co	mputer/domain	
	Group descript	nputer on not given in AD		٩٥	Sync M	embers Sche	dule Sync Group Setti	ng	Showing 1 to 7 of 7 $25 \sim$	
	📑 Backup (Backup Operat	Operators ors can override security restricti	ons for the sole pur	Username Administr		Role ‡ User	Ema	ail nin_1@securden.com	Domain SECURDEN.AWS.COM	
	5 DnsAdm			Parthasar	athy Dharmalingam	User	par	thasarathy@securden.con	SECURDEN.AWS.COM	
_	🖷 Domain	Admins		Securden	Service Account	User			SECURDEN.AWS.COM	
o 17	of 17 100 N	· · · · · · · · · · · · · · · · · · ·	1 > >>	Securden	Service Account 2	User			SECURDEN.AWS.COM	

Import User Groups from AD

Securden scans your Active Directory domain and obtains the users and groups in the domain. You can discover any specific user(s) or a group of users and add them to Securden. User discovery is a two-step process.

Step 1: Establish Connectivity

This step requires you to provide certain details to enable Securden to scan members of the domain.

Privileged .	Account Manage	er						Qv	Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Session	s Rej	ports	Admin	
Import Grou	ips from AD						Help 🔋			^
Step 1: Estab	olish Connectivit	у						ed to sup	AD is a two step process. In the oply certain details to enable Se the domain.	
							Domain IP	Address		
	ns your Active Direc specific user(s) or a						You have th addresses in	ne option n comma	IP address of the domain to be to enter any number of sec separated form. This will help if the primary IP address is not v	ondary IP Securden
Domain										
SECURDEN.AWS.C	MO	~					Connection	n Mode		
Domain IP Address / 172.31.1.11	′ FQDN *						to establish selected, the port 636 and	connecti domain d the cer	SL/non-SSL) through which Sec ion with the AD domain. If SSI controller should be serving ov rtificate of the domain controll v a CA. If the certificate of th	L mode is ver SSL in ler should
Secondary IP Add	()						controller is the certifica certificate ch	not signe ates that nain - that	ed by a certified CA, you need to t are present in the respect t is the certificate of the domain iate certificates if any. For def	import all ctive root controller
Select Remote Gat	eway						nere			

Domain IP Address: Specify the FQDN or IP address of the domain controller to be scanned. You have the option to enter any number of secondary IP addresses (secondary domain controllers) in comma separated form. This will help Securden establish a connection if the primary is not accessible.

Connection Mode: Specify the mode (SSL/non-SSL) through which Securden has to establish a connection with the AD domain.

If SSL mode is selected, the domain controller should be serving over SSL in port 636 and the certificate of the domain controller should have been signed by a CA.

If the certificate of the domain controller is not signed by a certified CA, you need to import all the certificates that are present in the respective root certificate chain - that is the certificate of the domain controller and all the intermediate certificates if any.

You can follow the example given below to import the domain controller's certificate into the certificate store of the Securden server machine. However,

you may use any procedure that you would normally use to import the SSL certificates to the machine's certificate store.

- In the Securden server machine, launch Internet Explorer and navigate to Tools >> Internet Options >> Content >> Certificates.
- In the GUI that pops up, click **Install Certificate** and then choose **Local Machine** in the next step.
- Browse and locate the root certificate issued by the CA.
- Click Next and choose the option Automatically select the certificate store based on the type of certificate and install.
- Click **Import** again.
- Browse and locate the domain controller certificate.
- Click Next and choose the option Automatically select the certificate store based on the type of certificate and install.
- Apply the changes and close the wizard.
- Repeat the procedure to install other certificates in the root chain.

Supply Administrator Credentials: You need to supply administrator credentials to enable Securden to scan the members in the domain. You may enter the username and password manually once and this will be stored in Securden for use during subsequent import attempts.

You can discover any group of users and add them to Securden.

Step 2: Go to Import

This step is to fetch the required user groups from the AD domain specified.

This GUI offers the flexibility to fetch user groups from OUs/Groups in bulk and even specific users, in a single step. That means, you can enter the names of the OU/Groups to be discovered in a single step. You can enter the discovery details in any combinations (OUs and Groups) as you wish.

To import OUs, select the OU tab.

- 1. Enter the OU name and select **Discover.**
- You can also browse from the OU tree by clicking on the Browse OU Tree and Select option. You can select one or multiple OUs and select Add.
- 3. You can then verify your selection in the **Verify the Objects Selected for Discovery.**
- You can then select the role for the OUs imported using the Role in Securden drop down.
- 5. Before selecting the import button, you can look into the additional settings which are explained below.
- 6. Select **Import.**

To import Groups, select the Groups tab.

- 1. Enter the Group name and select **Discover.**
- You can also browse by clicking on the Browse Groups and Select option. You can select one or multiple groups and select Add.
- You can then verify your selection in the Verify the Objects Selected for Discovery.
- You can then select the role for the OUs imported using the Role in Securden drop down.

- 5. Before selecting the import button, you can look into the additional settings which are explained below.
- 6. Select **Import.**

Advanced settings:

This option allows you to either include domain users of all subgroups to the group being imported or ignore the subgroups and import only the users of the first level group.

Import groups from LDAP

Importing user groups from LDAP is a two-step process. In the first step here, you need to supply certain details to enable Securden to connect and scan the directory.

💙 Privileged Account Manager						Q~ :	Search Accounts	8~
Dashboard Accounts Folders	Users	Groups	Audit	Sessions	Rep	oorts	Admin	
Import Groups from LDAP					Help 💈		515 i	*
Step 1: LDAP Settings					step here, y	ou need	DAP is a two-step process. In the to supply certain details to en ad scan the directory.	
					Domain Ide	ntifier		- 1
You can integrate Securden with any LDAP-co integration and import follow a two-step process		ice and import use	rs and groups. The	2	Enter the nam	ne with wh	ich the LDAP domain can be identif	ied.
Domain Identifier *					Domain Bas	se DN		
Domain Base DN *					fetches attrib 'base' or 'root' will be enterin the same for Typically, this	oute value ' from whe ng the top rmat as in s is entered	rs from an LDAP directory, Secu s from the directory. You need to re the directory lookup should start level of the LDAP directory tree nau t is appearing in your LDAP direct d as a sequence of names separate	enter . You me in ctory.
					commas to s	pecify the	Base Distinguished Name (DN).,	
Account DN *					Example DC=MyDomai	in,DC=com	1	
Domain IP Address / FQDN *					Account DN	ı		
Invalid DNS format					For connection	on authen	tication, Securden needs access t	o an 👻

Privileged	Account Manage	er						Q∨ s	earch Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Rep	orts	Admin	
Connection M SSL Supply Admir	1ode nistrator Credenti	als					Domain IP A Specify the I scanned. Yo secondary IP	Address FQDN or II ou have t or addresse n establish	s,DC=MyDomain,DC=com P address of the LDAP domain to he option to enter any number s in comma separated form. This a connection if the primary IP add	of will
Password Select Remote Gat Search remote ga		~					to establish a selected, the port 636 and have been si controller is n the certifica certificate ch and all the in here	node (SSL/ a connectio domain co d the certif igned by a not signed tes that ain - that is ntermediat	(non-SSL) through which Securden In with the LDAP domain. If SSL moo ontroller should be serving over SS ficate of the domain controller sh a CA. If the certificate of the dom by a certified CA, you need to import are present in the respective the certificate of the domain contri- te certificates if any. For details, or a credentials	le is L in buld nain t all root bller

Step 1: LDAP Settings

You can integrate Securden with any LDAP-compliant directory service and import user groups. In the GUI that opens, enter the following credentials to proceed with the integration.

Domain Identifier: Enter the name with which the LDAP domain can be identified.

Domain Base DN: When you import user groups from an LDAP directory, Securden fetches attribute values from the directory. You need to enter **base** or **root** from where the directory lookup should start. You will be entering the top level of the LDAP directory tree name in the same format as it is appearing in your LDAP directory. Typically, this is entered as a sequence of names separated by commas to specify the Base Distinguished Name (DN).

Example

DC=MyDomain,DC=com

Account DN: For connection authentication, Securden needs access to an LDAP account that has read access and is password-protected. You need to enter the Account DN here. You may enter the account name and password in the last step.

```
Example
CN=Bob.Smith,CN=Users,DC=MyDomain,DC=com
```

Domain IP Address: Specify the FQDN or IP address of the LDAP domain to be scanned. You have the option to enter any number of secondary IP addresses in comma separated form. This will help Securden establish a connection if the primary IP address is not working.

Connection Mode: Specify the mode (SSL/non-SSL) through which Securden has to establish a connection with the LDAP domain.

- If SSL mode is selected, the domain controller should be serving over SSL in port 636 and the certificate of the domain controller should have been signed by a CA.
- If the certificate of the domain controller is not signed by a certified CA, you need to import all the certificates that are present in the respective root certificate chain - that is the certificate of the domain controller and all the intermediate certificates if any.

Supply Administrator Credentials: You need to supply administrator credentials so as to enable Securden to scan the members in the domain. You may enter the username and password manually once and this will be stored in Securden for use during subsequent import attempts. If the users belong

to a different network than the Securden server, you can route the connection through a remote gateway. You can select the appropriate remote gateway from the drop-down and the discovery will happen through the selected gateway.

Step 2: Discover and Import from LDAP

In this step, Securden establishes a connection with the LDAP domain specified and imports user groups.

This GUI offers the flexibility to fetch only the required user groups from the LDAP domain.

Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin	
Import Gro	oups from LD	AP					H	elp 🛜	^
	•							iis step is to fetch the required users and groups from the DAP domain specified.	1
Step 2: Disc	over and Impor	TT TROM LUAP					fro	is GUI offers the flexibility to fetch only the required users om the LDAP domain. Typically, the search happens by	
In this step,	Securden establish	nes a connection	with the LDAP	domain specifie	d and imports (users.	all	mbining the Base DN, which is the base of the search tree for I users, the specific level under the Base DN (the LDAP cope), and the Search filter that gets granular to fetch only the	
Domain Name :	ldap	Dor	nain IP : 172.3	1.1.11			red Cla fet	quired users. In the search filter, you can specify a Object ass, which defines the types of results that Securden will tch. If the Base DN contains a mix of object types like people,	ł
Base DN *	I.DC=AWS.DC=CON							oups, assets, and so on, you may specify only the required t of objects here. You may use (objectClass=*) to include all	
DC=SECURDEN	I,DC=AWS,DC=COIV	1					ob	jects.	
Search Filter *							jus ex Sy ou	you want to add only specific users from your LDAP directory, st perform a search using the appropriate search filter. For ample, if you want to import only the users from the OU rsadmin and O Securden, the Base DN has to be =Sysadmin,o=securden,c=com and the search filter has to be itten within brackets as: (objectClass=user)	
Base			~					you want to restrict your search within a specific level under e BaseDN you may select the required scope from the drop-	

 Typically, the search happens by combining the Base DN, which is the base of the search tree for all users, the specific level under the Base DN (the LDAP Scope), and the Search Filter that gets granular to fetch only the required users/user groups.

100 Securden Unified PAM

- In the search filter, you can specify an Object Class, which defines the types of results that Securden will fetch. If the Base DN contains a mix of object types like people, groups, assets, and so on, you may specify only the required set of objects here. You may use (objectClass=*) to include all objects.
- If you want to add only specific user groups from your LDAP directory, just perform a search using the appropriate search filter. For example, if you want to import only the groups from the OU Sysadmin and O Securden, the Base DN has to be ou=Sysadmin,o=securden,c=com and the search filter has to be written within brackets as: (objectClass=user).
- If you want to restrict your search to a specific level under the BaseDN, you may select the required scope from the drop-down.
- Click Search. Verify your discovery details under Verify the Objects Selected for Discovery. If you to assign a common role to all the users being imported, select the role in Securden and finally click Import.

Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
	bjects Selected			common role to all the users being imported, select the Securden and finally click 'Import'. Note: User import is subject to your license limits. In ca						
When importin	g users, what shoul	d be the user role	?				num num cour	ber of users you try to import exceeds the license limit, the ober of users actually imported will conform to the license nt. The remaining users will not be imported. You can verify details in the next step.		
Role in Securden										
User			\sim							
Show Adva	nced Settings Cancel									

Advanced Settings:

This option allows you to either include domain users of all subgroups to the group being imported or ignore the subgroups and import only the users of the first level group.

Import from Azure AD

Securden allows you to import users from Azure AD. This is a two-step process. In the first step, you need to supply certain connectivity details to enable Securden to scan the members in the domain. This step requires integration with Azure AD and some configuration steps. For details, refer to *Securden-Azure-AD-Guide.pdf*

Step 1: Establish Connectivity

Prerequisites: Azure AD import requires internet connectivity. If your organization makes use of a proxy server to regulate internet traffic, you should have configured Proxy Server Settings (Admin >> General >> Proxy Server Settings).

In the GUI page that appears, enter the following details:

Tenant ID: Enter the Directory ID i.e., Your organization's ID with Azure AD.

Client ID: Enter the Client ID of the application.

Client Secret: This is the Secret Key created for Securden.

Step 2: Import Users

This step is to fetch the required users and groups from the AD domain specified.

This GUI offers the flexibility to fetch user groups from OUs/Groups in bulk and even specific users, in a single step. That means you can enter the names of the OU/Groups to be discovered in a single step. You can enter the discovery details in any combinations (OUs and Groups) as you wish.

To import OUs, select the OU tab

- 1. Enter the OU name and select **Discover.**
- You can also browse from the OU tree by clicking on the Browse OU Tree and Select option. You can select one or multiple OUs and select Add.
- You can then verify your selection in the Verify the Objects Selected for Discovery.
- You can then select the role for the OUs imported using the Role in Securden dropdown.
- 5. Before selecting the import button, you can look into the additional settings which are explained below.
- 6. Select **Import.**

To import Groups, select the Groups tab

- 1. Enter the Group name and select **Discover.**
- You can also browse from the OU tree by clicking on the Browse Groups and Select option. You can select one or multiple OUs and select Add.

- 3. You can then verify your selection in the **Verify the Objects Selected for Discovery.**
- You can then select the role for the OUs imported using the Role in Securden dropdown.
- 5. Before selecting the import button, you can look into the additional settings which are explained below.
- 6. Select **Import.**

Advanced Settings:

This option allows you to either include domain users of all subgroups to the group being imported or ignore the subgroups and import only the users of the first level group.

User Groups to Import: You can import all or specific user groups to import, depending on your requirements. You can type in the names in the respective text fields in comma separated form.

Configure Synchronization: Securden also allows Periodic Synchronization with AD. After you import the required user groups, you can configure periodic synchronization with AD. This helps you import the groups automatically. Click **Save** to save the domain details.

Add User Groups Manually

If you are not integrated with Active Directory or Azure AD, you can manually import user groups into Securden by following the steps given below. **To add user groups manually,** navigate to **Groups >> Add >> Add Groups Manually**. You can add a new group and add specific users as members of the group from here.

ishboard	Accounts	Folders	Users Groups	Audit Sessions	Reports Admin		
User Gro		▼ More ▼ Q	Members Report				
▲ IT T Yet to ç Ir Ir	nport Groups from AD nport Groups From LDAP nport Groups from Azure Al dd Groups Manually	2 🔟	Group Name Description Group ID	IT Team -None- 2000000004084			
			Q C III Add I	Aembers Delete Members Config Role	ure 2FA	Showin	g1 to 2 of 2 25 ∨
			Frankel Lampard	User	frenkid@gmail.com	Local	Ŵ
			Perry Theplat	User	perry@preey.com	Local	Ū
			Showing 1 to 2 of 2	~		0	• • • • • • • • • • • • • • • • • • •

In the GUI that opens, you have to provide the following details to create a new user group:

Dashboard	ccount Manager	Folders	Users	Groups	Audit	Sessions	Reports	Admin		Q ← Search Accounts	٤
businesard	nocodino	roldero	00010	croapa	Addit	CESSIONS	пероно	Admin			
Add Group										2 add a new group and add specific users oup from here.	s as membe
iroup Name *									-		
T Comms			De	escription					Group I		
									Uniquely	identifies the group being added.	
dd Members									Descrip	tion	
earch users by									Helps yo	ou easily search for and identify any partic	cular group.
Select		~							Add Me	mbers	
Search									created.	add specific users as members of the ne You can do a search of the existing us rion such as Username, Email Address e	sers based
										ired users to be added as members of the	
Save Can	icel										

Group Name: Uniquely identifies the group being added.

Description: Helps you easily search for and identify any particular group.

Add Members: You can add specific users as members of the new group being created.

You can do a search of the existing users based on any criterion such as Username, Email, Role Name, etc., and select the required users to be added as members of the group.

💙 Privileged A	ccount Manager									Q. ✓ Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Add Group										add a new group and add specific users as n up from here.	nembers
Group Name * IT Comms			De	escription					Group N	ame identifies the group being added.	
Add Members Search users by									Descript		jroup.
Email		\sim					Clear All		Add Mer	nbers	
Perry Theplat (P									created. Y any criter	add specific users as members of the new gro You can do a search of the existing users b ion such as Username, Email Address etc. ar ed users to be added as members of the grou	ased on nd select
Save Car	icei										

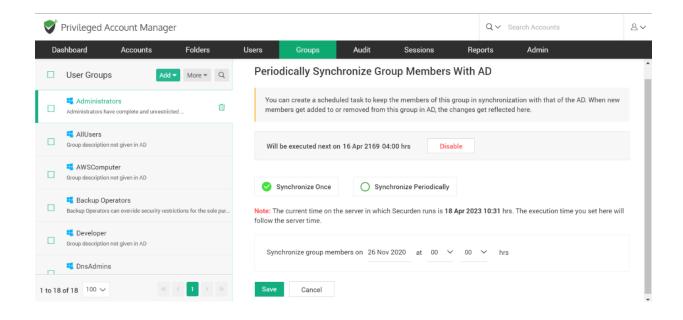
After providing these details, click on **Save** to create the user group.

Configure Periodic Synchronization of Groups

You can keep the members of this group in synchronization with that of the AD. When new members get added to or removed from this group in AD, the changes get reflected here without requiring any manual intervention on your part.

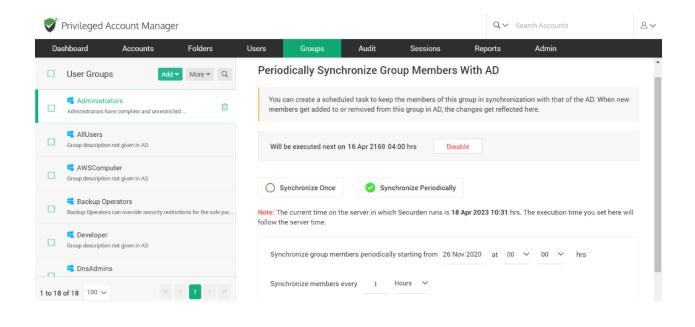
Navigate to **Groups** >> **Select the required group** >> **Members** >> **Schedule Sync** section in the GUI to perform this step.

You can either schedule the synchronization activity for a one-time run or create scheduled tasks to run periodically and ensure regular synchronization.



For periodic synchronization, you can choose the start time, and set the synchronization interval of your choice.

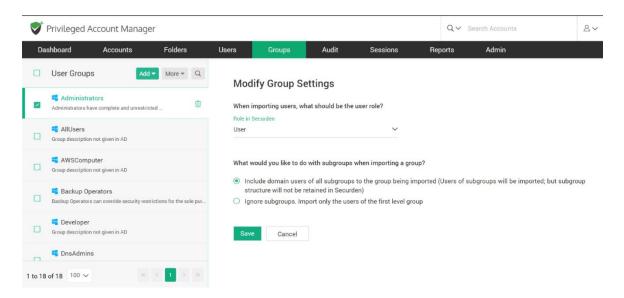
Once enabled, you can navigate to the **Schedule Sync** section as earlier to view the next planned schedule.



Group Settings

This option allows you to assign a role to the user groups being imported into Securden. This can be done by selecting a role under **Role in Securden**.

You also have the option to choose how the subgroups are to be assigned while importing. This means you can either choose to import domain groups of all subgroups or ignore them.



Explore Single Sign-On Options

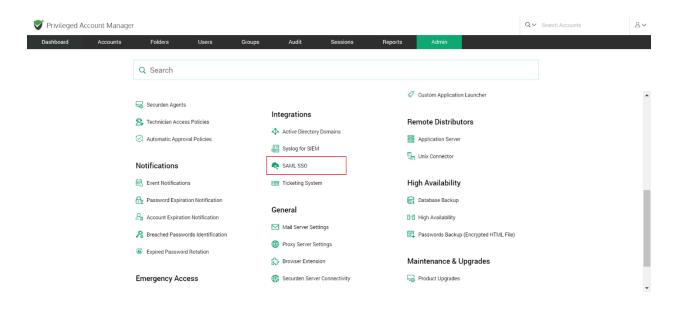
Securden leverages SAML 2.0 to seamlessly integrate with SAML-compatible federated identity management solutions like Okta, G Suite, Microsoft ADFS, OneLogin, PingIdentity, Azure AD SSO, and others for Single Sign On. Securden serves as the SAML Service Provider (SP), and it integrates with SAML Identity Providers (IdP). Once this is done, users who log in to solutions like Okta (IdP) will be automatically logged in to Securden. The IdP and Securden exchange validation details are in the background.

Securden integrates with any SAML-based SSO solution. The integration process involves three steps:

- Step 1: Add Securden as an application in the IdP (Okta, OneLogin, etc).
- Step 2: Configure IdP's details in Securden.
- Step 3: Provision access to Securden for your users in the IdP.

To start the integration, you would require certain details about Securden, which you can obtain from the product interface as explained below:

To configure SSO in Securden, navigate to **Admin >> Integrations >> SAML SSO.**



In the GUI that opens, **Enable SAML SSO** by setting the toggle to green.

ashboard Acc	ounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
dmin > SAML SSO										
onfigure SAML	SSO									
	rates with SAML I	dentity Providers	(IdP). Once this is						le Sign On. Securden serves as the SAML Ser hange validation details in the background. St	
Step 1: Add Securden as a	an application in t	he IdP (Okta, One	Login etc.)							
Step 2: Configure IdP's de	tails in Securden									
Step 3: Provision Securde	n access to users	in IdP								
nable SAML SSO	D									
nable SAML SSO	in the IdP		application.							
nable SAML SSO	in the IdP	d Securden as an	application.	Access URL]						
nable SAML SSO	in the IdP tion in IdP and add	d Securden as an	9/saml_sso [Edit /	Access URL]						
able SAML SSO	in the IdP tion in IdP and add	d Securden as an v10pf2yas0p:595 v10pf2yas0p:595	9/saml_sso [Edit /	Access URL]						

Step 1: Add Securden as an application in your SSO solution (known as the IdP). You need to perform this step on your SSO solution.

For adding Securden as an application, you would typically require the following details. Securden is referred to as the 'Service Provider'.

- Service Provider Entity ID
- Assertion Consumer URL
- Service Provider Metadata

All these details are available in the **Configure SAML SSO** page as shown below. You may readily copy this information using the icon provided beside each detail.

shboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
	loodanto	roidero	00010	Groups	nuun	0000000	пероно	, turnin			
nin > SAML SSO											
Provider (SP) and it in	tegrates with SAI		(IdP). Once this i							n serves as the SAML S tails in the background.	
tep 1: Add Securden	as an application	in the IdP (Okta, Onel	Login etc.)								
tep 2: Configure IdP's	s details in Secure	den									
and a provide ten or a		1.1.10									
tep 3: Provision Secu	urden access to u	sers in IdP									
step 3: Provision Secu	urden access to u	sers in IdP									
step 3: Provision Sect	urden access to u	sers in IdP									
able SAML SSO	urden access to u	sers in IdP									
	_	sers in IdP									
ble SAML SSO		sers in IdP							 	 	
ble SAML SSO	ails in the IdP								 	 	
ble SAML SSO	ails in the IdP	sers in IdP	application.						 	 	
ble SAML SSO	ails in the IdP			Access URL]					 	 	
ble SAML SSO inter Securden Deta lise the following infor P Entity ID	ails in the IdP mation in IdP and Imation in IdP and	i add Securden as an	9/saml_sso (Edit	Access URL]						 	
ble SAML SSO	ails in the IdP mation in IdP and http: IRL 🗎 http:	i add Securden as an a://w10pf2yas0p:595f	9/saml_sso (Edit	Access URL]							
inter Securden Detr Ise the following infor P Entity ID Issertion Consumer U	ails in the IdP mation in IdP and http: IRL 🗎 http:	i add Securden as an s://w10pf2yas0p:5959 s://w10pf2yas0p:5959	9/saml_sso (Edit	Access URL]							
ible SAML SSO inter Securden Detr ise the following infor P Entity ID ssertion Consumer U	ails in the IdP mation in IdP and http: IRL 🗎 http:	i add Securden as an s://w10pf2yas0p:5959 s://w10pf2yas0p:5959	9/saml_sso (Edit	Access URL]							
ible SAML SSO inter Securden Detr ise the following infor P Entity ID ssertion Consumer U	ails in the IdP mation in IdP and thtp: IRL the http: & secu	i add Securden as an s://w10pf2yas0p:5959 s://w10pf2yas0p:5959	9/saml_sso (Edit	Access URL]							
ble SAML SSO Inter Securden Det se the following infor P Entity ID Section Consumer U P Metadata	ails in the IdP mation in IdP and thtp: IRL the http: & secu	i add Securden as an s://w10pf2yas0p:5959 s://w10pf2yas0p:5959	9/saml_sso (Edit	Access URL]							

Step 2: Configure IdP's details in Securden

Once you have completed step 1 and added Securden as an application in your SSO solution, you would have certain details obtained from the IdP like IdP Entity ID, IdP login URL, and protocol type.

Privileged Account N	anager						Q∼ Search Accourt	nts A.
Dashboard Acco	unts Folders	Users Grou	ips Audit	Sessions	Reports	Admin		
Admin > SAML SSO								
Configure SAML S	SO							
SAML Identity Providers (Id	P). Once this is done, users who k application in the IdP (Okta, Onet ils in Securden	ogin to solutions like Okta (I					len serves as the SAML Service Provider (SI molve providing details about the SP to the	
Enable SAML SSO								
	n in IdP and add Securden as an	application.						
SP Entity ID Assertion Consumer URL SP Metadata	 https://w10pf2yas0p:5959 https://w10pf2yas0p:5959 securden_meta.xml 	9/saml_sso [Edit Access UR	IJ					
Enter IdP Details in Sect	I den							

You have two options here from which you can select one that is best suited for you.

- Configure IdP Details (or)
- Upload IdP's Metadata file

If you select the option **Configure IdP Details**, enter the IdP details that you get once you complete step 1.

Privileged Ac	ccount Manager								Q	✓ Search Accounts	8~
Dashboard	Accounts Fo	olders	Users	Groups	Audit	Sessions	Reports	Admin			
Admin > SAML SSO)										
Enter IdP Detail	s in Securden										*
Configure Id	P Details O Upload	IdP Metadata									
Identifier*				0							
IdP Entity Id*											
IdP Login URL*											
Protocol Type HTTP-POST			~								
Upload Certificate Fi	ile *										- 1
Choose a file		Bro	wse								- 8
	curden Login Name (optional)										
Save											-

You need to enter the following information:

Identifier – Enter an Identifier text that will appear on the Securden login screen to display the SSO option.

IdP Entity ID – You need to fetch the Entity ID from your IdP provider and enter it here.

IdP Login URL - Enter the URL used to login into your IdP portal.

PROTOCOL TYPE – Select the type of protocol to use from the two available options.

- **HTTP-POST** Select this if you wish to send data to the server.
- HTTP-Redirect Select this if you want the server to redirect the response to your request.

Upload Certificate file – You can attach the certificate file that you have for your IdP.

Custom rule for Securden login -

As part of the integration, one of the important aspects is the 'login name' format. The Identity Provider returns a login name, which Securden uses as the username for logging in to the application. If you want to map the name returned by the identity provider with a different name, you can create custom rules.

Basically, you can make use of the following string functions to create custom rules to manipulate the login name returned by the identity provider. In the string function, login name denotes the name returned by the identity provider.

Step 3: Provision access to Securden for your users in the IdP

After completing the integration, remember to provision access to Securden to your users in the IdP.

Configure Single Sign-On

The steps to configure Single sign on for various SSO providers have been elaborated below.

Configure Single Sign-On for Okta

To integrate Okta with Securden, you need to follow these steps:

1. Log in to your Okta account using your admin credentials.

okta	
Sign In	
🔔 Username	0
Password	ø
Remember me	
Sign In	
Need help signing in?	

- My Apps 💿 okta Add Application CATEGORIES Q Search. Featured Integrations See al Docu Sign A ATLASSIAN Active Directory Apps for Good CASE Active Directory Atlassian Cloud DocuSign and HR Sy 13 ML, SWA, Prov SAML, SWA, P rity Applicat 681 10 Okta Test Appli 14 👬 slack zoom 22 workday. Zoom SAML Slack Workday Fastest Growing See all aws A ATLASSIAN box
- 3. In the pop-up window, choose **SAML 2.0** as your sign-on method and click **Create**.

latform	Web	*
ign on method	Secure Web Authen Uses credentials to	tication (SWA) sign in. This integration works with
	SAML 2.0	
		tocol to log users into the app. This
		an SWA, if the app supports it.
	 OpenID Connect Uses the OpenID Co app you've built. 	onnect protocol to log users into ar

4. In the **Create SAML Integration** window, enter the application name, and if you want, you can add the application logo as well. Then, click on **Next**.

2. Navigate to **Applications >> Add Applications >> Create New App**.

App name	SAML_app	
App logo (optional) 🔘	Ø	
	Bro	·50.
	Upload Logo	
App visibility	 Do not display application icon to users 	
	Do not display application icon in the Okta Mobile app	

 Here, you need to provide the Service Provider's, a.k.a. Securden's details for which you have to navigate to Admin >> Integrations >> SAML SSO. Use the provided details to integrate Securden with Okta.

Enter Securden Details in	the IdP
Use the following informatio	n in IdP and add Securden as an application.
SP Entity ID	https://pam-demo.securden.com/saml_sso [Edit Access URL]
Assertion Consumer URL	https://pam-demo.securden.com/saml_sso
SP Metadata	

6. Navigate to the Okta SAML settings page. Enter the Securden Service Provider details in Okta's **Configure SAML** settings page.

General Settings	2 Configure	SAML.	C Feedback
SAML Settings			What does this form do? This form generates the XML needed
ingle sign on URL 🛛	https:// I and this for Recipient URL and	5 Destination URL	for the app's SAML request. Where do I find the info this form needs? The app you're trying to integrate with
udience URI (SP Entity ID) O	https:// B	dab.resolution.de/plugins	should have its own documentation or using SAML. You'll need to find that doc, and it should outline what information you need to specify in this
iame ID format 🛛	If no value is set, a blank flelwyStat Unspecified	e is sent	form. Okta Certificate Import the Okta certificate to your Identify Provider if required.
oplication username O	Ökta username		Dewnload Okta Certificate
pdate application username en	Create and update	•	

- 7. If you have used AD to import users, choose the **Custom** option for **Name ID Format**. Specify the following custom format: toUpperCase(substringBefore(substringAfter(user.email, "@"), ".")) + "\" + substringBefore(user.email, "@").
- If you did not use AD for user import, you can choose the Okta Username Prefix option.
- 9. Click on the **Finish** button to complete the SAML creation process. Navigate to the **Sign On** tab and click on **View Setup Instructions** button.

General	Sign On	Mobile	Import	Assignments	
Settin	gs				Edit
Sign o	n methods				
				ns into and manages their credentials for an	
	1			itional configuration in the 3 rd party application.	
SA	ML 2.0				
	Default Relay	State			
€	SAML 2.0	s not configu	red until you	complete the setup instructions.	
	View Set	up Instructio	ns		
	Identity Pro	vider metada	ta is availabl	e if this application supports dynamic configurati	on.

- 10. Navigate to Securden >> Admin >> Integrations >> SAML SSO.
- 11. Click on the **Configure IdP Details** option to display the IdP options. Here, you need to enter details of your SAML IdP. You can add the details manually or choose to import them from the IdP Metadata file.

Configure IdP Details	O Upload IdP Metadata	
Configure for Details	O Opioad ide Metadata	
entifier*		
IP Entity Id*		
IP Login URL*		
rotocol Type		
TTP-POST		~
pload Certificate File *		

Configure Single Sign-On for Azure AD

To integrate Securden Login with Azure AD, you need to carry out the following steps:

- 1. Log in to your Microsoft Azure portal.
- 2. Click on the **App Registrations** from the left pane under **Manage**.
- 3. Click on the + New Registration button on the top bar.
- 4. The registration page will load. Here, you need to provide the following information:

Name: Enter Securden PAM, or a name of your choice.

Choose supported account types - Accounts in this organizational directory only - Single tenant. Enter the Securden's Redirect URI.

- 5. Click on the **Register** button to complete the addition of Securden PAM.
- 6. The newly registered Securden PAM's application will open up. Click on Authentication under Manage in the left pane. In the Authentication page, under Advanced Settings, enable Allow Public Client Flows by clicking on the Yes button.
- 7. Click on **API Permissions** under **Manage** in the left pane. In the **API Permissions** page, click on the **+Add a Permission** button.
- 8. A Request API Permissions window will pop up. Here, choose Azure AD Directory Graph under Supported Legacy APIs.
- Click on Delegated Permissions and search for "read" in the Select
 Permissions search bar to populate relevant permissions. Select the

options **Directory.Read.All**, **User.Read** and click **Add Permissions**.

10. Now, click the **Grant Admin Consent** button under **Grant Consent**.

11. In the pop up that opens, click **Yes** to grant consent for the requested permissions.

12.You can now navigate to Securden PAM's interface to start importing users, after Securden PAM is registered with the relevant permissions in Azure AD.

Troubleshooting Tips

Issue: "User not present" error while configuring Azure AD SSO integration.

Solution:

During authentication, we validate the value returned by the identity provider against the login name in Securden. When you import users from Azure AD, Securden checks the username as DomainName\loginname.

For this, you can change the custom rule for Securden login name in the SSO configuration page under "Admin>>SAML SSO>>Edit"

```
stringAppend('DOMAINNAME\', loginname)
```

Example: stringAppend('SECURDENDEV\', loginname)

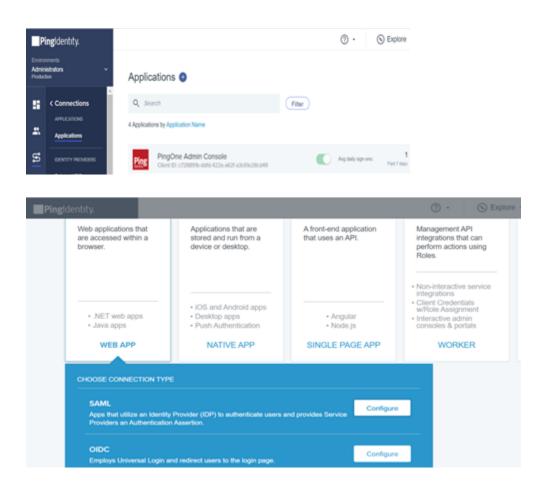
If an email is received from Identity Provider, the login name has to be stripped from the value:

```
stringAppend('DOMAINNAME\', substringBefore(loginname, '@'))
```

For extracting username from email: substringBefore(loginname, '@')

Configure Single Sign-On for Ping Identity

- 1. Login to your Ping Identity account.
- Navigate to Connections >> Applications + and then click Web App >> SAML.



3. Create an App profile by personalizing your application with its name, description, and icon (optional). Then click on **Next.**

Create App Profile	PR	OGRESS
Personalize your application by creating a unique profile. The description will help your customers identify the purpose of the application and provide important information to misquided connections.	0	Create App Profile Personalize your application
APPLICATION HAME OESCHIPTION	0	Configure SAML Configure connection between your app and PergOne
см •	3	Map Attributes Provide access to your application for customors authenticate
Man Sigle 19 Mill Article, area, Gir, France		
Cancel Heart		

Pingidentity.) · () E	xpiore +		Valliammai Annamalai -
APPLICATION NAME Securden1	Web App		PROTOCOL SAML			
PROVIDE APP METADATA Import Metadata Import From URL Acs URLS https://pam-demo.securden.com/samt_sso ×	Aanually Enter			l	 2 3 4 4	GRESS Create App Profile Personalize your application Configure SAML Configure Connection between your app and ProgOme.
		Cancel	and Continue			Map Attributes Provide access to your application for customers to authenticate.

4. To configure connection between Securden and PingOne, you need to provide the Service Provider's, a.k.a. Securden's, details for which you have to navigate to Admin >> Integrations >> SAML SSO.

Enter Securden Details in the IdP

Use the following information in IdP and add Securden as an application.

SP Entity ID	https://pam-demo.securden.com/saml_sso [Edit Access URL]
Assertion Consumer URL	https://pam-demo.securden.com/saml_sso
SP Metadata	🛃 securden_meta.xml

Use the provided details to integrate Securden with Ping Identity.

- 5. Map attributes to provide access to your application for customers to authenticate.
- 6. Click on the **Finish** button to complete the SAML creation process.
- Navigate to Applications >> Securden >> Configuration and download metadata or copy the respective Issuer ID (Entity Id) and IDP metadata URL (Login URL).

	istrators 👻	App	olications (>						
	< Connections	12451	Search lications by Applica	Son Name	F	Ber				
;	Applications		Profile	Configuration	Altribute Mappings	Policies	Access			
	DONTITY PROVIDERS									
	External IDPs		~ CONNECT	ION DETAILS						
	PHIC PRODUCTS		DOWNEON	D METADATA:	Download https://auth.psrgone.ania/34906c7d-9593-4ilc7-85d5-2ddb58e1cdff					
	PingFederate		ISSUER ID :							
	Pingintelligence		SINGLE LOGOUT SERVICE		https://auth.pingone.mia/34906c7d/9593-48c7-85d5-2ddb58e1cdft/sami20/idp/sio					1
	· · · · · · · · · · · · · · · · · · ·		SINGLE SIG	NON SERVICE	https://auth.pingone.avia/34906c7d-9593-48c7-85d5-2ddb58e1cdtt/saml20idp/sso					
	Webhooks		IOP METADATA URL		https://auth.pingone.au/a/34906c7d-9593-48c7-85d5- 2ddb58e1cdft/sami20/metadata/3e4318d5-8156-4938-8ae8-51dfbbf9181f					
	Geteways		INITIATE SR	VOLE SIGN ON URL	https://auth.pingone.asia/34906c7d-9593-48c7-85d5-2ddb58e1cdtthamt20/idp/startsso? spEnthykd=https://pam-demo.securden.com/saml_sso					

8. Navigate to Securden >> Admin >> Integrations >> SAML SSO. Click on the Configure IdP Details option to display the IdP options. Here, you need to enter details of your SAML IdP. You can add the details manually or choose to import them from the IdP Metadata file.

- 9. Click the **Save** button to complete the setup.
- 10. Navigate to Ping Identity, **Applications >> Securden >> Access** and follow the instructions in the GUI to assign Securden to your users. Select the required users and assign them the application.

Configure Single Sign-On for One Login

 Navigate to Applications >> Applications >> Add Apps in the OneLogin administrator dashboard.

onelogin Users Applications Devices	Authentication	Activity	Security	Settings	Developers	Getting Started Guide	• v
Find Applications							
Q custom connector							
SAML Custom Connector (Advanced) OneLogin, Inc.						SAML2.0	
SAML Custom Connector (SP Shibboleth) OneLogin, Inc.						SAML2.0	
							_

- 2. Search for **SAML Custom Connector (Advanced)** and select the first result from the search results.
- Navigate to Configurations tab here, you need to provide the Service Provider's, a.k.a. Securden's details for which you have to navigate to Admin >> Integrations >> SAML SSO.

Enter Securden Details in the IdP

Use the following information in IdP and add Securden as an application.

SP Entity ID	https://pam-demo.securden.com/saml_sso [Edit Access URL]
Assertion Consumer URL	https://pam-demo.securden.com/saml_sso
SP Metadata	🛃 securden_meta.xml

Use the provided details to integrate Securden with One Login.

4. Navigate to the **One Login Configurations** page. Enter the Securden Service Provider details in the configurations page.

onelogin Users Applica	ations Devices Authentication Activity Security Settings Developers Getting Started Guide		• v
Add SAML Custom Con	nector (Advanced)	Cancel	Save
Configuration	Portal Display Name		
	Visible in portal		
onelogin Users Application	ns Devices Authentication Activity Security Settings Developers Getting Started Guide	• •	î
Applications / SAML Custom Connector	(Advanced) More Actions -	Save	
Info	Application details RelayState		
Configuration Parameters	Audience (Entity(D)		
Rules SSO	Recipient		
Access Users	ACS (Consumer) URL Validator*		
Privileges Setup	① *Required.		v

(onelogin	Users	Applications	Devices	Authentication	Activity	Security	Settings	Developers	Getting Starte	d Guide		v
	Applications / SAML Cust	tom Co	nnector (A	dvanced	l)						Mor	e Actions 👻	Save
	Info Configuration Parameters Rules				bod	(2048-bit)							
1	SS0				ure Algorithm								
	Access Users			SHA-1			•						
	Privileges Setup			https://apj	o.onelogin.com/sa	ml/metadat	a/Ofd8a69c	-ea46-4df9-b	8db-9980bbbddt	ac	ю		
	are tup				dpoint (HTTP) mam.onelogin.com	n/trust/sam	l2/http-post	t/sso/0fd8a6	9c-ea46-4df9-b8	db-9980bbbddbac	в		

- Click on the Save button to complete the SAML creation process and navigate to Securden >> Admin >> Integrations >> SAML SSO.
- 6. Toggle the **Enable SAML SSO** switch on.
- Click on the **Configure IdP Details** option to display the IdP options. Here, you need to enter details of your SAML IdP. You can add the details manually or choose to import them from the IdP Metadata file.
- 8. Click the **Save** button to complete the setup.
- You can now assign Securden to your users. Navigate to Applications
 > SAML Custom Connector (Advanced) >> Users. Select the required users and assign them the application.

Configure Single Sign-On for G-Suite

To integrate G-Suite with Securden, you need to follow these steps:

- 1. You need to possess a super administrator account to proceed further and open the Google Admin console.
- From the Admin console Home page, go to Apps >> Web and Mobile Apps.

- 3. Click **Add App >> Add Custom SAML** app.
- 4. On the **App Details** page:
 - a. Enter the name of the custom app (here Securden).
 - b. (Optional) Upload an **app icon**. The app icon appears on the web and mobile apps list, the app settings page, and the app launcher. If you don't upload an icon, an icon is created using the first two letters of the app name.
- 5. Click **Continue**.
- 6. On the **Google Identity Provider** details page, get the setup information needed by the service provider using one of these options:
 - a. Download the **IDP metadata**.
 - b. Copy the SSO URL and Entity ID and download the Certificate (or SHA-256 fingerprint, if needed).
- 7. (Optional) In a separate browser tab or window, sign in to your service provider and enter the information you copied in Step 4 into the appropriate SSO configuration page, then return to the Admin console.
- 8. Click **Continue**.
- In the Service Provider Details window, enter an ACS URL, Entity ID, and Start URL (if needed) for your custom app. These values are all provided by the service provider. Note: The ACS URL has to start with <u>https://</u>
- 10. The default **Name ID** is the primary email. Multi-value input is not supported.
- 11. Click **Continue**.
- 12. Under **Google Directory Attributes**, click the **Select Field** menu to choose a field name. Then, enter the corresponding attribute for your custom SAML app under **App Attributes**.
- 13. Click Finish.

Turn on your SAML App

1. Click **User Access**.

- To turn on or off a service for everyone in your organization, click **On** for everyone or **Off** for everyone, and then click **Save**.
- 3. (Optional) To turn a service on or off for an organizational unit:
 - At the left, select the organizational unit.
 - Select On or Off.
 - Click **Override** to keep your setting if the service for the parent organizational unit is changed.
 - If Overridden is already set for the organizational unit, choose an option:

Inherit—Reverts to the same setting as its parent.

Save—Saves your new setting (even if the parent setting changes).

- 4. To turn on a service for a set of users across or within organizational units, select an access group.
- 5. Ensure that the email addresses your users use to sign in to the SAML app match the email addresses they use to sign in to your Google domain.

Configure Single Sign-On for Microsoft ADFS

Before configuring ADFS

- Register your Windows Server as a member of the existing domain.
- Log in to the ADFS server as a domain administrator.
- Ensure that the ADFS server has a valid certificate meant for it (ADFS).

Step 1: Install the ADFS role

- Open Server Manager >> Manage >> Add Roles and Features.
 The Add Roles and Features wizard is launched.
- 2. On the **Before You Begin** page, click **Next.**
- 3. On the **Select Installation Type** page, select role-based or featurebased installation, and then click **Next.**
- 4. On the Select Destination Server page, click Select a Server from the Server Pool and click Next.
- On the Select Server Roles page, select Active Directory Federation Services and click Next.
- 6. On the confirmation page, click **Install**. The wizard displays the installation progress.
- 7. Wait until the installation gets completed.

Step 2: Configure the Federation Server

- 1. Once the ADFS role is installed, click **Configure the federation** service on this server link.
- On the Welcome page, select Create the first federation server in a federation server farm and click Next.
- 3. On the **Connect to Active Directory Domain Services** page, specify an account with domain administrator rights for the Active Directory domain that this system is connected to, and then click **Next**.
- On the Specify Service Properties page, enter the following details before clicking Next:

a. Select the SSL certificate. The Federation Service Name will be

automatically populated.

- b. Enter a display name for **Federation Service Display Name**.
 - On the Specify Service Account page, select Use an existing domain user account or Group Managed Service Account and click Next.
 - On the Specify Configuration Database page, select Create a database on this server using Windows Internal Database and click Next.
 - 7. On the **Pre-requisite Checks** page, verify if all prerequisite checks have been successfully completed and then click **Configure**.
 - 8. Review the results and check whether the configuration has been completed successfully on the **Results** page.

Step 3: Configure ADFS to integrate with Securden

- Open Server Manager >> Tools >> ADFS Management. The ADFS wizard is launched.
- 2. Expand to **Relying Party Trusts** and click **Add Relying Party Trust**.
- 3. On the "Add Relying Party Trusts" wizard, click Start.
- Launch Securden web interface (<u>https://<Securden-Server-Hostname>:5454/</u>), navigate to Admin >> Integrations >> SAML
 SSO and download the metadata file securden_metadata.xml.
- Go back to Add Relying Party Trusts Wizard. Under Select Data Source, select Import data about the relying party from a file.
 Browse and select the securden_metadata.xml, which you downloaded from Securden and click Next.
- In the Specify Display Name field, enter Securden and then click Next.

130 Securden Unified PAM

- 7. Choose **I don't want to configure multifactor authentication settings for this relying party trust at this time** and then click **Next**.
- 8. Choose **Permit all users to access this relying party**.
- 9. Keep clicking **Next** until you reach the **Finish** screen.
- 10. Choose to open the **Edit Claim Rules dialog** before clicking Finish. This will launch the **Edit Claim Rules** window.
- 11. On the **Issuance Transform Rules** tab, click **Add Rule**.
- 12. Under **Select Rule Template**, set **Transform an incoming claim** as the rule template and click **Next**.
- 13. Choose Windows account name in Incoming Claim Type and Name ID in Outgoing Claim Type and then click Finish. Apply the claim rules in Issuance Transform Rules tab.
- 14. Navigate to **Endpoints**, and then to **MetaData Group**. Select the entry with type **Federation MetaData**.
- 15. Open a web browser and access the following URL path as in the entry "<u>https://<ADFS-Server-Name>/<URL-Path</u>>"

Example: (https://SEC-2K12.SECURDEN.LOCAL/FederationMetaData/2007-06/FederationMetaData.xml)

Launch Securden web client. Navigate to Admin >> Integrations >> SAML SSO. Enable SAML SSO and then upload the federation metadata.

Troubleshooting Tips:

Question/Issue - I have integrated with a SAML-compatible federal identity management solution but got an invalid user response when SSO feature was used. How to resolve this issue?

Steps to follow:

- The username format could be the cause of this issue. For authentication, we validate the value against the Username in Securden.
- When you import users from AD, Securden maintains the username as DomainName\username. (When you add users locally instead of importing from AD, it will be just the username alone).
- So, on the SSO configuration page, if you change the Custom Rule for Securden Login as below, the issue might be resolved:

stringAppend('DOMAINNAME\', loginname)

- 4. **Example**: stringAppend('**SECURDENDEV**\', loginname)
- 5. In addition, there might be an email mismatch with username.
 - a. If an email is received from SSO, the domain name has to be trimmed from the value: stringAppend('DOMAINNAME\', substringBefore(loginname, '@'))
 - b. For extracting username from email:

substringBefore(loginname, '@')

Section 4: Configuring Two Step Verification

Enforcing Two Factor Authentication (MFA)

For enhanced security, you can enforce the second layer of authentication for your users to access their Securden accounts. Users will have to authenticate through two successive stages. It is strongly recommended to activate Two Factor Authentication (2FA).

To Configure Two-Step Verification, Navigate to **Admin >> Authentication >> Two Factor Authentication** in the GUI to perform this step.

Privileged A	ccount Manager						Q. 5m	enh Accounts	
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin	
Admin > Two Fact	or Authentication								
Two Factor	Authenticati	on							
	security, you can enfor mended to activate Tw			r your users to acco	ns their Securden	account. Users will h	ave to authenticate t	through two successive	stages. It
Activate Two F	actor Authenticat	ion 💽							
Select the 2	FA Option								
lecurden provides	the following options f	for the second factor.							
· Mail OTP - 1	ecurden generates an	one time password to	be used as the se	cord authentication	factor and sends t	hat to the registered er	nail address of the re	spective user.	
• Google/Mic	rosoft/TOTP Authentica	ator - You can use a	ny Time-based On	Time Password (TO	TP) authenticator	app on your phone su	ch as Google Authen	ticator, Microsoft Authe	nticator, a
others. If yo	u are using any other T	OTP authenticator, y	ou may edit 'TOTP	dentifier" and give it	the required name.				
RADIUS Aut	hentication - You can	integrate RADIUS	server or any RA	0005-compliant two-	factor authenticat	ion system like One!	Span Digipase, RSA	SecuriD etc. for the se	cond fac
authenticat	on.								
Email to SN	IS Geteway - if you are a	already using an Ema	iii to SMS gateway	software, you can int	legrate that with Se	courden to send OTP to	o users through SMS.		
Duo Securit	y Authentication								
+ YubiKey Au	and the second se								

Privileged A	ccount Manager								Q. Search Accounts	8
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
Admin > Two Fact	or Authentication									
Select the desired (2FA option below:									
			0							
1		C				[9			
1			-		·					
Mail	OTP	Google Auth	enticator		thentication figure		SMS Gateway			
	_ 0			_	_					
D1	10		0	ć	6	6	<u>T</u>			
		U U								
Duo Authe		YubiK	ley	Microsoft A	authenticator		hentication I			
Confi	que					6	hange			

At present, Securden supports:

- Mail OTP Securden generates a one-time password to be used as the second authentication factor and sends that to the registered email address of the respective user.
- Google/Microsoft/TOTP Authenticator You can use any Timebased One-Time Password (TOTP) authenticator app on your phones such as Google Authenticator, Microsoft Authenticator, and others. If you are using any other TOTP authenticator, you may edit the 'TOTP Identifier' and give it the required name.
- RADIUS Authentication You can integrate the RADIUS server or any RADIUS-compliant two-factor authentication system like OneSpan Digipass, RSA SecurID, etc. for the second-factor authentication.

- Email to SMS Gateway If you are already using an Email to SMS gateway software, you can integrate that with Securden to send OTP to users through SMS.
- Duo Security Authentication If you have enrolled in Duo Security, you can easily integrate that with Securden and make use of the various authentication methods (security key, biometric authenticator, touch ID, web authentication, and more).
- YubiKey Authentication You can also make use of a YubiKey as a second-factor authentication, which generates one-time passwords upon integration.

Mail OTP

In the case of Mail OTP 2FA, the user must first complete the first level of authentication, and then Securden will email a randomly generated password to the user. This password will only be available for the current session and will expire when the user logs out. The user has to enter the password to authenticate the second level and then they will have access to the Securden PAM application.

To configure Mail OTP for 2FA:

- 1. Navigate to Admin >> Authentication >> Two-Factor Authentication
- 2. Select **Mail OTP** as your option and click **Confirm**.

Google Authenticator/Microsoft Authenticator/TOTP Authenticator

Google Authenticator provides a six-digit code to authenticate the second level of access for authentication. Microsoft Authenticator and TOTP Authenticator work the same way.

Prerequisites:

You need to install the Google Authenticator/Microsoft Authenticator/TOTP Authenticator app on your mobile phone or tab.

The app generates a six-digit number every 30 seconds and you receive the code instantaneously with the app.

To use Google/Microsoft Authenticator as your 2FA method,

1. Navigate to Admin >> Authentication >> Two-Factor Authentication.

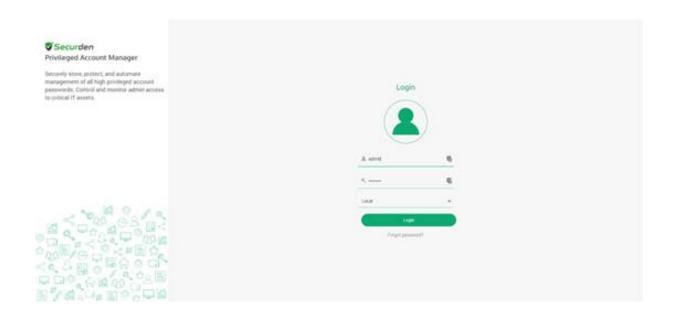
- 2. Choose the option Google Authenticator/Microsoft Authenticator/TOTP Authenticator.
- 3. Click **Confirm.**

Yubikey

Yubico designed a physical authentication key called Yubikey, which can be integrated with Securden PAM for 2FA.

To integrate Yubikey with Securden,

- 1. Navigate to Admin >> Authentication >> Two-Factor Authentication.
- 2. Click on **Yubikey**.
- 3. Click **Save**.
- 4. To connect to Securden PAM after integrating it with Yubikey, you need to launch the Securden PAM's web interface first.



- 5. Enter your Securden credentials and complete the first level of authentication. Once it succeeds, you will be asked to enter the Yubikey OTP.
- 6. In the USB port of your computer, insert the Yubikey.
- Before generating a one-time password, you need to decide which of the two slots, slot 1 or slot 2, of the YubiKey you're going to use for authentication throughout.

Slot 1: If you tap the YubiKey once, it generates a 44-character security key whose first 12 characters are unique to this slot. For every subsequent login through this slot, the first 12 characters remain the same and the rest of the 32 characters are randomized.

Slot 2: If you tap and hold the YubiKey for 2-5 seconds, it generates a 44-character security key whose first 12 characters are unique to this slot. For every subsequent login through this slot, the first 12 characters

will remain the same and the rest of the 32 characters will be randomized.

- 8. Here is a sample output from a YubiKey where the button has been pressed three times.
 - cccjgdwkdjkwjdkjwikjdkhhfgrtnnlgedjlftrbdeut
 - cccjgjubuebduhubnjkedjkehijeiocjbnublfnrev
 - cccjgjgkcbejnvchfkfhiiuunbtnvgihdfiktncvlhck

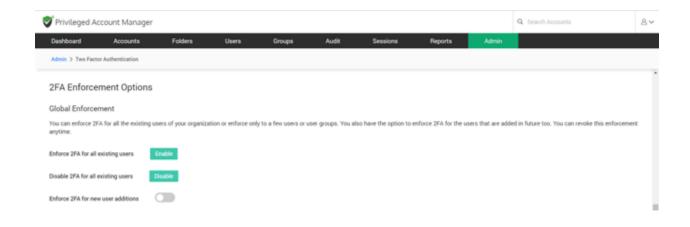
<u>Note</u>:

By default, YubiKey generates slot 1 passcode for NFC configured mobile devices. You can set slot 2 passcodes as default by changing the setting from slot 1 to slot 2 using the Yubikey Personalization Tool.

- Securden matches the 12-character key against your account in its database and verifies the same for the second level of authentication during future login attempts.
- 10. After submitting the YubiKey one-time password, click Register and Login.

Global 2FA Enforcement

Securden provides you with the option of enforcing the 2FA for all the users of the organization. You can also enable this feature for only the new users of your organization.

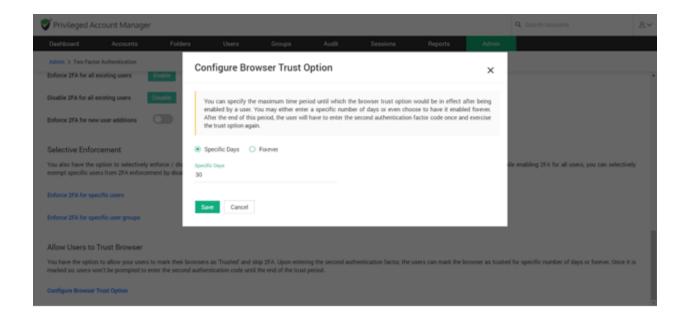


Selective 2FA Enforcement

You also have the option to selectively enforce/disable 2FA for specific users or user groups from **User (or) User Group >> More Actions >> Enable/Disable 2FA**. In addition, while enabling 2FA for all users, you can selectively exempt specific users from 2FA enforcement by disabling 2FA for them.

Allow Users to Trust Browser

You have the option to allow your users to mark their browsers as **Trusted** and skip 2FA. Upon entering the second authentication factor, the users can mark the browser as trusted for a specific number of days or forever. Once marked, users won't be prompted to enter the second authentication code until the end of the trust period.



To enable this feature navigate to **Admin >> Two Factor Authentication >> Configure Browser Trust Option** link, and the pop-up box will appear. Here, you can specify the maximum period until which the browser trust option would be in effect after being enabled by a user. You may either enter a specific number of days or even choose to have it enabled forever. After the end of this period, the user will have to enter the second authentication factor code once and exercise the trust option again.

Radius Authentication

RADIUS Authentication can be integrated with Securden PAM as a 2FA method.

To configure RADIUS authentication,

- 1. Navigate to Admin >> Authentication >> Two-Factor Authentication.
- 2. Click the configure option on **RADIUS Authentication**.
- In the RADIUS Server Settings page that opens up, you need to enter the following details:
 - a. Identifier Name of the RADIUS-compliant system
 - b. Servername Hostname or IP Address
 - c. Server Secret
 - d. Authentication Retries
 - e. Authentication Protocol (options are PAP, CHAP, MS-CHAP, MS-CHAPv2)
 - f. Authentication Port
 - g. User login format (to be sent to the RADIUS server): you can choose the format from the provided options or create your own format
 - h. Authentication timeout (in seconds)
- 4. Once you have provided the required information, you can click **Save**.
- 5. You can also test the setup before saving it by clicking on the **Test RADIUS Authentication** button.

Admin > RADIUS Server Settings		
Configure RADIUS Server Settings		
You can integrate RADIUS server or any RADIUS-compliant two-factor a below for the integration to take effect.	withentication system like OneSpan Digipass, RSA SecuriD, Swivel Secur	e etc. for the second factor authentication. You need to configure RADIUS server details
Mentifier (Name of the RUCRUS-compilant authentication system) *	Authentication Protocol * PMP	~
Server Name (Hostname or IP Address) *	Authentication Port * 1812	
Server Secret *	User Login Name Format (to be sent to RADIUS server) * LOGER_NAME	¥
Authentication Retries * 2	Authentication Timeout (in seconds) * 3	
Save Test RADIUS Authentication Cancel		

Email to SMS Gateway

As part of two-factor authentication, Securden integrates with Email to SMS gateway providers to send one-time passwords as SMS to the phone numbers of the users. You need to enter the country code for the phone numbers here. Also, ensure that all your users have phone numbers added in Securden. Otherwise, OTP cannot be sent as SMS.

Privilegod A	Account Manager									Q. South formally	A
Destinant	Accounts	Folders	Uums	Gmips	Autil	Seasons	Reports	Abrie	1		
Antonio y Atlantica	1949 (strong										
Email to St	MS Gateway 0	Configuration									
	Pactor authentication, 1 relev. Otherwise, 07P ca			peterony providers t	r send size time pe	errorits as SMS to P	e phone numbers of 1	he users. You reed	d to orien the country code for the phone of	unders here. Also, ensure that all your users have pho	ne tumbers
Dratin Tarty 1			Ø								
Diff. (annual Planet	in (sainis (sain *)		ø								
Prefix marting	under with the plane of	entions of all search									
tax Day	unt .										

To configure Email to SMS Gateway as an option,

- 1. Navigate to Admin >> Authentication >> Two-Factor Authentication.
- 2. Click on **Configure** on the **Email to SMS Gateway** option.
- 3. You need to provide the Display Name and the SMS Service Provider Domain Name. In case you want to prefix the country code of the users' numbers, you can check the Prefix country code with phone numbers of all users button.
- 4. Click on the **Save** button.

DUO Authentication

Securden integrates with Duo Security for two-factor authentication. Once configured, users will be enforced to authenticate through Duo for accessing the web interface.

Prerequisite:

Before proceeding with the configuration steps below, you need to carry out a few steps at Duo Security to enable the integration with Securden. Once you complete the steps in Duo, you will get an integration key, secret key, and API hostname, which you need to supply below. After configuring this, remember to enable Duo Security authentication on the 2FA settings page.

To enable Duo authentication in Securden, you need to carry out certain configuration steps in both Duo and Securden.

Step 1: Configurations in Duo

- 1. You should have an account with Duo and log into the Duo Admin Panel. Securden has to be added as a new application.
- Click Applications in the left sidebar, and in the GUI that opens, click the Protect an Application button. Alternatively, you can click the Protect an Application submenu item in the left sidebar.

DUO	A built to uses propula	proton o andon		•		Accession +
Dashboard Device Insight Policies	Applications			- 3	100 Metag Dualer Pres	et as Apple also
Applications Poted as Appliation				Expert ~	Q tears	
Users Groups	Hate .	Type	Approximent Proving		Iraq Palat	
Endportin	THE STR	1000-0104				
27A Devices Adreevelukes Reports Sellings Billing	5 100ar					
Kapani Mana Kanar Land Januari ur car 1-455 200-3003 Manari Manar		@ 2020 Own Se	esetty AA option reserved. Secons of a	envela (1		

3. In the list of applications, search for **Web SDK**. Click the **Protect** button on the right to configure the application.

145 Securden Unified PAM

DUC	9. Search for users, groups, applications, or de-	itoes	0	1. 1070-10840 Announce -
Dashboard Device Insight	Protect an Applicati			
Policies Applications Protect on Application	Vieb SDK Application	2fA	Single Sign-On (if available)	Cocumentation Action
Users Groups	Partner WebBDK	25A		Documentation (3 Protect.
Endpoints 2FA Devices	· Web SDK	27A		Documentation (5 Protect
Administrators Reports Settings				
Billing				
Support Nicod July ¹ Email Support or Call 1 455-386-2884.		© 2020 Duo Security Al	rights reserved. Terms of service (f	
Name of Street, Street				
Decumentation of Liber, Guide Of Knowledon, Same Of				

You will get your integration key, secret key, and API hostname.
 Copy these details. You will need these to complete your setup.

146 Securden Unified PAM

Dile	A. Starth for every group	s appearing, or modern			
Danhboard Device Insight	Successfully added the	1 SOK to pomotion applications. And another			
Policies Applications	Geotosci > entiatore 1				
Pretect an Approxime	Web SDK 1			Admentication Log 1	Remove Application
Users Ornaps	See the Duty Web SCH.	Documentation (2 to integrate Duo Into your cost	in set application.		
Endpoints 2FA Devices	Details				Reset Secret Key
Administrators Reports	Integration key	built and at the spin of the spinse	select		
Settings	becrut key	Crick to vew	access -		
Marg		Can't write down your second hay or utsets it with a	nyama		
Required News Despit Email Dispaced	APt to channe	a) 2018 in London Science	select		
er call 1 455 386 2854	Policy	on alors oil autoritude when accounty this a	picalas, Your Datai Policy aluar	a applies. Sut one can describe in the	in all laster
	polices.		Annual line instant a new second		
Decementation of Main.Societ of Mainetation.Recta (J	Group polition	Apply a policy to groups of users			
Community of	Apple plan policy	Apply a policy to all server			

4. Finally, you need to create a policy to handle Duo enrollment scenarios in your organization for Securden. You may create a policy for Securden that takes effect for all users or use a Global Policy applicable to all your applications.

To handle the users who have not been enrolled to Duo yet, you have three options:

• **Require enrollment** - You can ask them to enroll in Duo. They will see an inline self-enrollment setup process after entering their username and password. (Users who are already enrolled in Duo are prompted to complete two-factor authentication).

• **Allow access** - You can grant access without Duo authentication to those who haven't enrolled with Duo. They will not be prompted to complete enrollment.

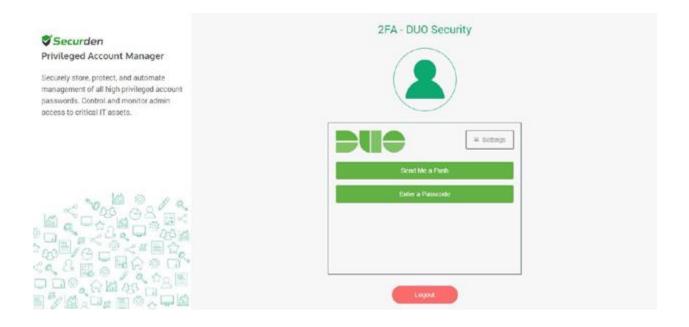
• **Deny access** - You can deny access to those who haven't enrolled with the duo. Users must be enrolled before attempting authentication. The above steps complete the setup process in Duo.

Step 2: Configuration in Securden

 In Securden GUI, navigate to Admin >> Authentication >> Duo Security. You will need to provide the integration key, secret key, and API hostname from the application in Duo security to Securden.

Privileged Ac	count Manager								Q. Search Accounts	8~
Deshboard	Accounts Fold	lera Usera	Oroupe	Audit	Sessions	Reports	Admin			
Admin > Oue Securi	a.									
Configure D	uo Security Authen	tication								
Pre-requisite for	tes with Duo Security for two fac fore proceeding with the configu- or configuring this, remember to	ration steps below, you nee	d to first carry out a	few steps at Duo s				complete the steps in Duo, you will g	pt an integration key, secret key, and API hostname, which yo	a need to
megulion Key *										
Secret Key *		0								
API hostname *										
Custom Rule for Sec	urden Login Name (optional)	•								
Sawe Cance										

- After entering the details, navigate to Admin >> Authentication >> Two-factor Configuration and select Duo Security.
- 3. Then Duo Security will now be used as the second-factor authentication for the users in Securden. The users may select two options for entering the second factor - to send push notifications to their mobile phones or to enter the code from the Duo mobile app.



Smart Card Authentication

If your organization uses smart cards for authenticating user logins, you can use the same for Securden authentication. If users have logged in to their machines using their smart cards, they will be allowed to access the Securden web interface too. During this process, the Securden web interface will display the available certificates and users will have to choose their certificates. Securden validates them against the already configured trusted CA root certificate.

Privileged Account Manager				Q V Search Accounts	8~
Dashboard Accounts Folders Users	Groups Audit	Sessions Reports	Admin		
Admin > Smart Card Authentication					
Smart Card Authentication for Web-Interface					^
If your organization uses smart cards for authenticating user logons, you web-interface will display the available certificates. Users will have to cho in this step below, you need to add the trusted CA root certificate and th Directory Authentication separately.	ose their certificates. Securden validates the	em against the already configured trusted C	A root certificate.		
Important Note: 1. Smart Card authentication serves as the primary authentication mode: 2. If your certificate has been signed by an intermediate CA, you have to a 3. If your are using Smart Card authentication in Securden, the CA certificated The settings will take effect only after restarting Securden PAM Service	dd the whole certificate chain into Securden. tes added for smart card authentication will	Otherwise, Securden web-interface can't be	accessed.		
Enable Smart Card Authentication					1
Select the CA root certificate Choose a CA root certificate Browse					
Add the root certificate in Base-64 encoded X.509 format (.cer or .pem).					
Identifier(Login page display text)*					

To Enable Smart Card Authentication:

- 1. Navigate to Admin >> Authentication >> Smart Card Authentication.
- 2. Toggle the Enable Smart Card Authentication to on.

- 3. Select the CA root certificate. You can do this by selecting the **Browse** button and selecting the certificate.
- 4. Select the **Identifier.**
- 5. From the certificate, select the attributes to be retrieved into Securden.
- 6. To enable Smart Card Authentication for local users, check the box and add the attribute.
- 7. Likewise, to enable Smart Card Authentication for Active Directory Users, check the box and add the attribute.
- 8. Click on Save.

In the above step, you need to add the trusted CA root certificate and then tell Securden which part of the smart card certificate attribute uniquely identifies the user details in the product. You need to specify this mapping attribute detail separately for Local Authentication OR/AND Active Directory Authentication.

Privileged A	Account Manager									Q ← Search Accounts	8~
Dashboard	Accounts F	olders L	lsers	Groups	Audit	Sessions	Reports	Admin			
Admin > Smart Ca	ard Authentication										
Choose a CA roo	t certificate	В	rowse								
Add the root ce	ertificate in Base-64 encoded X	.509 format (.cer or .p	oem).								
Identifier(Login page Login through sma											
Certificate Attribut	e and Securden User Identifica	tion									
Attribute to retrieve	from the CA-signed certificate*		~								
Local Authent	ication Users (Manually Added	Users)									
Attribute to retrieve -Select-	from Securden		~								
-Select-			Ť								
Active Directo	ry Users										
Attribute to retrieve -Select-	from Active Directory		~								
-select-			~								
Save Ca	ncel										

Note:

1. Smart card authentication serves as the primary authentication mode in Securden. It is different from the various 2FA options, which serve as the second authentication mode.

2. If your certificate has been signed by an intermediate CA, you have to add the whole certificate chain into Securden. Otherwise, the Securden web interface can't be accessed.

3. If you are using Smart Card authentication in Securden, the CA certificates added for smart card authentication will be automatically available for certificate authentication too.

4. The settings will take effect only after restarting Securden PAM Service.

Troubleshooting Tips

Issue: 2FA code is not accepted in the UI.

Solution:

The most probable reason for MFA not working is that the time on the mobile device is not synchronized. To troubleshoot this issue,

- Go to your phone Settings.
- Navigate to Date & Time settings.
- Turn ON Set Automatically (in iPhone) or Turn ON Use Network-Provided Time (in Android).
- Restart Google Authenticator / Microsoft Authenticator app.
- Now, try to login to Securden using the latest MFA code.

Section 5: Account Management

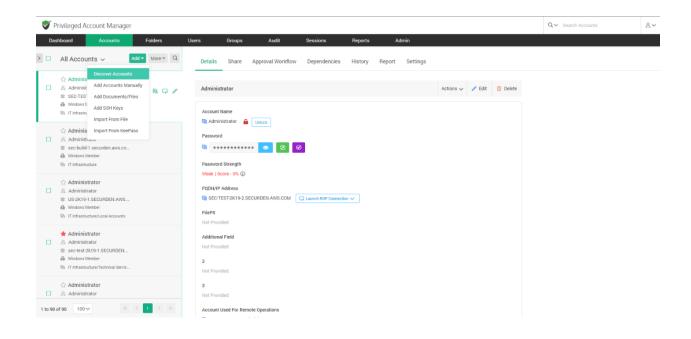
Securden provides a centralized credential vaulting facility in which you can add, remove, share, and monitor various privileged credentials that can be used to manage multiple privileged accounts in your organization. To manage the privileged credentials, you need to add them to the vault. You can discover privileged accounts, add them from a file, manually add them to the vault, and import them from other password management solutions.

Discovering Privileged Accounts

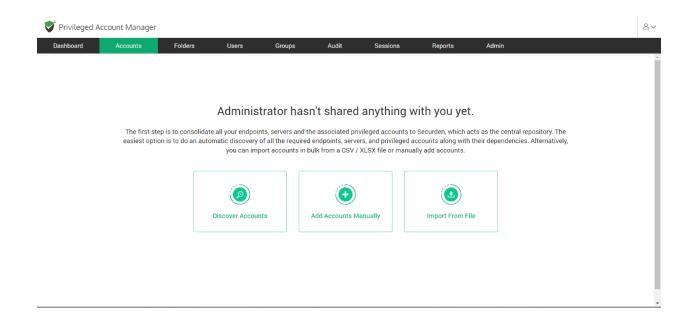
Once the users who are going to use Securden PAM are onboarded, the very first thing to do is add all the privileged accounts to PAM for centralized management.

One of the effective ways to accomplish this is to discover servers, databases, SSH devices, and network devices and the privileged accounts that are a part of those devices.

To run discovery, navigate to **Accounts** >> **Add** >> **Discover Accounts**.



If your Securden instance doesn't have any account onboard, you can navigate to **Accounts >> Discover Accounts**.



154 Securden Unified PAM

You can run this discovery process on:

- 1. Servers running on Windows, Linux, and Mac platforms.
- 2. Databases such as PostgreSQL, MS SQL, Oracle, and MySQL.
- 3. Network devices such as Cisco IOS.

💙 Privileged Ac	count Manager									8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
Discover Acc	counts									Î
You can discover	the privileged accounts fro	om various IT assets, i	ncluding servers, c	latabases, and other	devices. Select ar	option below.				- 1
Servers										
Window	vs	Linux		M ac						
Databases										
Postgres) SQL	SQL Server		Oracle		MySQL				·

The process differs slightly for each type of device and the steps are explained below.

Running Discovery on Windows Servers

Prerequisites: To perform remote operations on Windows devices, you need to import your AD domain into Securden. This can be done separately or at the time of discovery. To connect to your domain, you must satisfy the following requirements.

- 1. Ports 389 (For Non-SSL) and port 636 (For SSL) must be open to Securden PAM.
- 2. AD Reachability The active directory must remain connected to Securden PAM.
- 3. If the users are restricted from logging in from multiple computers, login permission should be allowed from the securden server also.

Securden scans the active directory in Windows servers to obtain the AD domain's OUs, Groups, and Computers. Along with them, the local admin accounts, domain accounts, and service accounts present on the servers are also obtained.

Once computers are discovered, Securden scans each device for the domain accounts used as service accounts to run services, scheduled tasks, and IIS App pools.

Accounts discovery is a two-step process. The very first step is to establish connectivity between Securden and the Active Directory. Then, the required OUs, groups, computers, and accounts can be selected and imported into Securden. The steps are explained in detail below.

Step 1: Connecting to the Active Directory Domain

To establish connectivity, you need to furnish details of the Active Directory domain. Navigate to **Admin >> Integrations >> Active Directory Domains**.

Vrivileged Account Manager					
Dashboard Accounts F	Folders Users	Groups	Audit Sessio	ns Reports	Admin
Discover Accounts, Compute	ers, Dependencie	es From AD			
Step 1: Establish Connectivity					
Securden scans your Active Directory domain which are used as service accounts to run ser			domain. It also fetches the loca	al admin accounts, domain a	ain accounts, and service accounts on member servers. Typically, each discovered computer is scanned for identifying the dependencies - domain accounts
Domain IP Address / FQDN * 192.168.72.2					
Secondary IP Addresses (Optional)					
Select Remote Gateway -None-	~				
Connection Mode					
SSL SSL					
Supply Administrator Credentials					
O Enter username and password	fy an account already stored	l in Securden			
Account Type Windows Domain	Address Search Account	Address	Title ✓ Search Account	t Title	~
Next Cancel					

FQDN/IP Address

To establish connectivity with the AD domain, you need to specify the FQDN/IP address of the domain. The FQDN/IP can be supplemented with secondary IP addresses to establish connectivity in cases where the primary addresses are not working.

Connection Mode

You can specify the mode of connection (SSL/Non-SSL) between Securden and the AD domain. If you select SSL mode, you need to ensure that the domain controller is serving over SSL in port 636. Additionally, the certificate of the domain controller should be signed by a certified CA. If the certificate is not signed by the CA, you can import all the certificates that are present in the root certificate chain (the certificate of domain controller and all the intermediate certificates if any).

Supply Administrator Credentials

You need to supply administrator credentials to enable Securden to scan the members in the domain. You may enter the username and password manually for the first time. The username and password specified will be stored in Securden for subsequent import attempts.

Note: AD domains can be added before running the accounts discovery process by using the AD integration option. To add the active directory domain, navigate to **Admin >> Integrations >> Active Directory Domains**.

Connecting to AD Domains on Secondary Networks

If you have configured a distributed deployment setup in Securden using an API-based application server, you can explicitly run the discovery on the secondary network to scan for devices and databases and obtain the accounts from them.

To establish connectivity between Securden and the AD domain, you can follow the same steps as above. Additionally, while establishing connectivity, you need to route the connection through the remote gateway associated with the API-based application server.

You may select the required gateway from the drop-down menu as shown below.

Privileged Account M	lanager								Q ← Search Accounts	8,
Dashboard Acco	unts Folders	Users Groups	Audit S	Sessions	Reports	Admin			iccounts from AD is a two step process. In t	
	computer is scanned for identify	the OUS. Groups and computers in ing the dependencies - domain accou					nts on member servers.	Securden to a Domain IP J Specify the F You have the addresses in establish con Connection Specify the n to establish selected, the port 636 and have been s controller is 1 the certifica	QDN or IP address of the domain to be sc e option to enter any number of second comma separated form. This will help Se nection if the primary IP address is not work	canned. dary IP ccurden king. len has node is SSL in should domain port all e root ntroller
SearchingHoxe- New York Data Center London DC Belglum DC & SECURDEN-AWS\administr Nex Cancel		t to the active directory domain.						You need to Securden to the usernam credentials s attempts. You once and th	inistrator Credentials supply administrator credentials so as to scan the members in the domain. You may e and password manually once and the tored in Securiden during the subsequent may enter the usename and password m is will be stored in Securden for use mport attempts.	y enter en use import anually

Step 2: Discovering and Importing Accounts

Once the connection has been established between Securden and the AD Domain, you can select the required OUs, Groups, Computers, and Accounts available in the AD domain and import them into Securden.

You have the flexibility to choose any combination of the four options below and import them in a single easy step.

For example, if you want to discover accounts from an OU and a Group, first enter/browse and select the name of the OU, click **Discover**. Then go to the **Groups** tab, select/browse the name of the Group and click **Discover**. Verify your discovery details and finally click **Import**. Securden will fetch all accounts that are part of the OU and Group specified.

Importing Ous

Using this method, you can import all domain accounts and computers that are a part of the selected OUs.

You can use the search function to add specific OUs. Specify the search term and click **Discover**.

Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
OUs Groups etch all domain account the selected OU/OUs. B	unts and computers th	t. Then click the 'Disc	over' button.	curden also fetches d wse OU Tree and Sel		ocal accounts from all	computers of	a Group, firs 'Discover'. T of the Grou finally click	; if you want to discover accounts from an OI t enter/browse and select the name of the OU hen go to the 'Groups' tab, select/browse the o, click 'Discover', Verify your discovery detail 'Import'. Securden will fetch all accounts the U and Group specified.	click name and
	Selected for Dis		o Securden.							
Vhen importing accou	nts, should they be m	oved under a specifie	c folder?							

Select the required OUs from the search result and click **Add**.

Privileged A	ccount Manager						Q - Search Accounts	8~			
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports		Admin		
OUs Gro		Accounts		Search by nam	ie				a Group, first	if you want to discover accounts from an O enter/browse and select the name of the Ol en go to the 'Groups' tab, select/browse the	J, click
	ccounts and computers t Us. Enter your search tex			CN=ForeignSecurity		RDEN,DC=AWS,DC=COM			of the Group, finally click '	, click 'Discover'. Verify your discovery detai Import'. Securden will fetch all accounts th J and Group specified.	ls and
Q. Search OUs		Dis	cover	CN=IP Security,CI	N=System,DC=SECURD	EN,DC=AWS,DC=COM					
Verify the Obje	cts Selected for Dis	scovery		SecurdenUsers OU=SecurdenUse	s ers,DC=SECURDEN,DC=	AWS,DC=COM					
Verify your search	results before proceedin	g to importing them t	to Securden.	Add Canc	sel.						
When importing ac	counts, should they be n	noved under a specifi	ic folder?			_	_				
Folder in Securden											
-None-			~								
	to further refine what yo	u wish to add to Secu	urden? Try son	ne advanced settings (o	ptional).						

Alternatively, you can browse the OU tree and select the required OUs.

Privileged Account Manager			Q ← Search Accounts	8~	
Dashboard Accounts Folders Users					
OUs Groups Computers Accounts	SECURDEN.AWS.COM		a Group, first	if you want to discover accounts from an OU a enter/browse and select the name of the OU, c	lick
Fetch all domain accounts and computers that are part of a specific OU/OUs the selected OU/OUs. Enter your search text. Then click the 'Discover' button. Q. Search OUs Elecover Verify the Objects Selected for Discovery Verify your search results before proceeding to importing them to Securden.	AllUsers AllUsers Add Cancel		of the Group, finally click '	Then go to the 'Groups' tab, select/browse the na µ, click 'Discover', Verify your discovery details c 'Import'. Securden will fetch all accounts that OU and Group specified.	
When importing accounts, should they be moved under a specific folder?					
-None-	[Add Folder]				
Would you like to further refine what you wish to add to Securden? Try so moot Cancel	me advanced settings (optional).				

Once you have selected the required OUs, click **Add**.

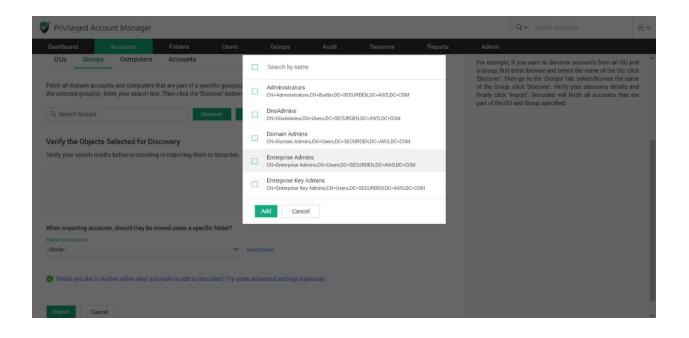
Importing Groups

Using this method, you can import all domain accounts and computers that are a part of the selected groups.

You can use the search function to add specific groups. Specify the search term and click **Discover**.

Privile	eged Acco	unt Manager								Q ← Search Accounts	8~
Dashboar	rd	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
OUs	Groups	Computers	Accounts							if you want to discover accounts from an O	
	ed group(s). Er	nts and computers th nter your search text	t. Then click the 'Dis	cover' button.	ecurden also fetches o bwse Groups and Sele	_	local accounts from all	computers of	'Discover'. Th of the Group finally click	enter/browse and select the name of the OL en go to the 'Groups' tab, select/browse the cick' 'Discover'. Verify your discovery detail import'. Securden will fetch all accounts th J and Group specified.	name Is and
		Selected for Dis		to Securden.							
When impo	orting account	ts, should they be m	oved under a specif	ic folder?							
Folder in Sec	curden										
-None				✓ [A	dd Folder]						
🕀 Would y	you like to fur	ther refine what you	wish to add to Sect	urden? Try some	advanced settings (o	ptional).					
Import	Cancel										

Select the required groups from the search result and click **Add**.



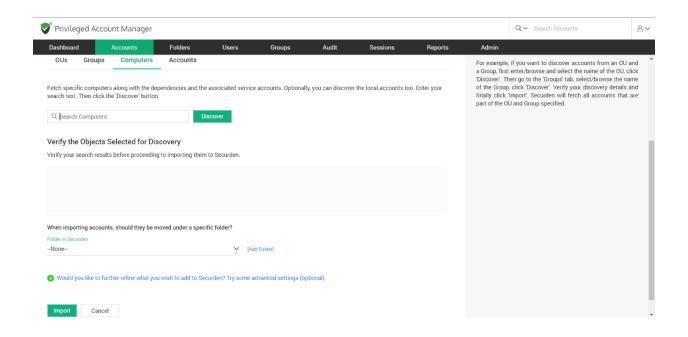
Alternatively, you can browse different groups in the AD domain and select the required groups.

Privileged Account Manager				Q - Search Accounts	8~
Dashboard Accounts Folders Users	Groups Audit Sessions	Reports	Admin		
OUs Groups Computers Accounts	SECURDEN.AWS.COM		a Group, first	, if you want to discover accounts from an OU a enter/browse and select the name of the OU, cl en go to the 'Groups' tab, select/browse the na	lick
Fetch all domain accounts and computers that are part of a specific group(s) the selected group(s). Enter your search text. Then click the 'Discover' button Q. Search Groups Discover	Access Control Assistance Operators Account Operators Administrators	Î	of the Group finally click	, click 'Discover'. Verify your discovery details a 'Import'. Securden will fetch all accounts that U and Group specified.	and
Verify the Objects Selected for Discovery Verify your search results before proceeding to importing them to Securden.	All Domain Member Computers Allowed RODC Password Replication Group Backup Operators Cert Publishers Certificate Service DCOM Access				
When importing accounts, should they be moved under a specific folder? Folder in Securden -None- Would you like to further refine what you wish to add to Securden? Try sor	Add Cancel [Add Folder] me advanced settings (optional).				
Import Cancel					

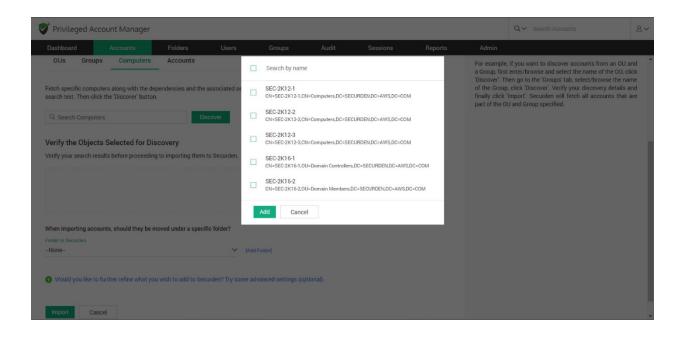
Once you have selected the required groups, click **Add**.

Importing Computers

You can search and select specific computers from your AD domain. The selected devices, local accounts, service accounts and their dependencies contained in each device will be imported into Securden.



You need to specify the search term and click **Discover**.

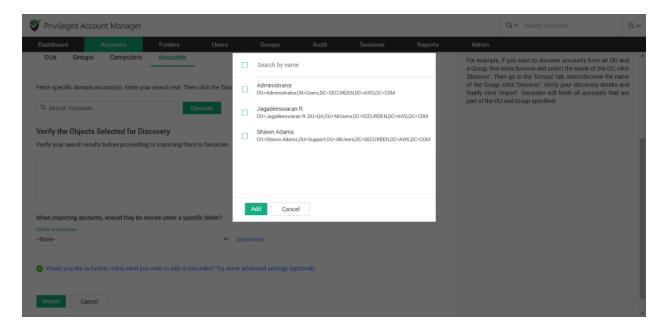


Importing Specific Accounts

You can search and select specific domain accounts from your AD domain. You need to specify the search term and click **Discover**.

Fetch specific domain account(s). Enter your search text. Then click the 'Discover' button. a Group, first enter/boxes and select the name of the OU, O Q: Search Accounts Discover'. Verify the Objects Selected for Discovery Verify your search results before proceeding to importing them to Securden. When importing accounts, should they be moved under a specific folder? Folder in Securden	OUs Groups Computers Accounts ch specific domain account(s). Enter your search text. Then click the 'Discover' button. For example, if you want to discover accounts from an OU at a Group, first enter/browse and select the name of the OU, clic 'Discover'. Then go to the 'Group' itab, select/browse the name of the Group, click 'import'. Securden will fetch all accounts that a part of the OU and Group specified. It Search Accounts Discover ify your search results before proceeding to importing them to Securden. The output of the OU and Group specified. en importing accounts, should they be moved under a specific folder? Ker in Securden	Privile	ged Acco	unt Manager								Q ✓ Search Accounts	
For example, if you must be doubter all counts with the Output of the	he specific domain account(s). Enter your search text. Then click the "Discover' button. It search Accounts Discover's button. It search Accounts Discover's button. It search Accounts before proceeding to importing them to Securden. en importing accounts, should they be moved under a specific folder? ter in Securden one-	Dashboard		Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
eify your search results before proceeding to importing them to Securden.	ify your search results before proceeding to importing them to Securden.	etch specif	ic domain a		ır search text. Then		button.				a Group, firs 'Discover'. Th of the Group finally click	t enter/browse and select the name of hen go to the 'Groups' tab, select/bro o, click 'Discover'. Verify your discove 'Import'. Securden will fetch all acc	of the OU, click wse the name ery details and
r in Securden	r in Securden ne- [Add Folder]		-	Selected for Dis	covery								
der in Securden	Jer in Securden One-	iny jour c	earch result	ts before proceeding	to importing them	to Securden.							
	one- Y [Add Folder]	iny your o	earch result	ts before proceedin <u>c</u>	y to importing them	to Securden.							
Ione Y [Add Folder]	Would you like to further refine what you wish to add to Securden? Try some advanced settings (optional).												

You can select the required domain accounts from the search result and click **Add**.



Selected OUs, Groups, Computers, and Accounts will be displayed in the field named **Verify the Objects Selected for Discovery**.

💙 Privileged Account Manager	Q V Search Accounts
Dashboard Accounts Folders Users Groups Audit Sessions Reports Admin Securiden fetches local accounts and their dependencies from the AD domain specified. You have four options here and you can exercise any or a combination of the four options below as required	domain accounts and their dependencies) from the AD domain
in a single step.	specified. This GUI offers the flexibility to fetch accounts from OUs/Groups/Computers in bulk or even specific accounts, in a
Domain Name : SECURDEN.AWS.COM Domain IP : 172.31.1.11 OUs Groups Computers Accounts	single step. That means, you can enter the names of the OU/Groups/Computers/Accounts to be discovered in a single step. You can enter the discovery details in any combination as you wish.
Fetch specific domain account(s). Enter your search text. Then click the 'Discover' button.	For example, if you want to discover accounts from an OU and a Group, first enter/browse and elect the name of the OU, click Discover. Then go to the 'Group' fab, elect/browse the name of the Group, click 'Discover'. Verify your discovery details and finally click 'Import'. Securiden will fetch all accounts that are
Q. Search Accounts Discover Verify the Objects Selected for Discovery Verify your search results before proceeding to importing them to Securden.	part of the OU and Group specified.
By AVSComputer X B Allowed R00C Password Replication Group X E SEC 2X12.1 X A Administrator X	
When importing accounts, should they be moved under a specific folder? Folder in Security -None- V [Add Folder]	
O Would you like to further refine what you wish to add to Securden? Try some advanced settings (optional).	
tmport Cancel	

You can check whether all the required objects have been added here.

Add Imported Accounts to a Folder

While importing accounts, you can specify a Folder to which all the imported accounts will be added. You can click the drop-down menu and select the required folder.

Dashboard Accounts Folders Users Groups Audit Sessions Reports Admin Security for the social accounts and their dependencies from the AD domain specified. You have four options here and you can exercise any or a combination of the four options below as required in a single step. domain accounts and their dependencies from the AD domain specified. You have four options here and you can exercise any or a combination of the four options below as required as a second account is domain accounts and their dependencies from the AD domain specified. You have four options here and you can exercise any or a combination of the four options below as required and their dependencies for the AD domain accounts and their dependencies for the in a single step. This GUI offers the flexibility to fetch OUS Groups Computers Accounts domain account is the flexibility to fetch OUS Groups Computers Accounts is a domain their dependencies for the floxe options below as required at their dependencies for the flexibility to fetch OUS Groups Computers Accounts Demain Rames, you can exercise any or a combination of the four options below as required at their dependencies for the floxe options below as required at their dependencies for the floxe options below as required at their dependencies for the floxe options below as required at their dependencies for the floxe options below as required at their dependencies for a second their dependencies for the floxe options below as required at their dependencies for the floxe options below as required at their dependencies for the floxe options below as required at their dependencies for the floxe options below as required at their dependencies for the floxe options below as required at the dependencies for the floxe options below and their dependencies for the floxe o	
onum IN IAME : SECURIDELAVIS.OM DOMAIN IP : 72.31.11 OUL Group Computers In Lubic over nages OUL Group Computers In Lubic over nages OUL Group Computers In Lubic over nages Inter- Central Security Inter- I	om the AD dom
a Group fiste micriformer and select them a a Group fiste micriformer and select them a g search Accounts biscover hund on the Discover hund on the Disc	cific accounts, the names of covered in a sir
Image: Second	me of the OU, c t/browse the na covery details
If Infrastructure SEC-2K12-1 X Administrator X Administrator X Local Accounts	
C Local Accounts	
Deen Connection	
C. Diagr	
None- V [kds Foder]	

If you want to add all the imported accounts to a new folder, you can create one by clicking **[Add Folder]**. You need to specify the folder attributes before saving.

Advanced Settings

These settings provide granular options to refine the objects imported to Securden.

😴 Privileged Account Manager	Q ✓ Search Accounts 8	8∨
Dashboard Accounts Folders Users Groups Audit Sessions Reports Admin Securifient Relies local accounts comain accounts and their dependencies from the AD domain specified you have four options here and you can exercise any or a combination of the four options below as required		
Securities retrieve and accounts, domain accounts and mer opendencies from the Au domain specified, you have four opuons here and you can exercise any or a combination or the four opuons below as required in a single step.	domain accounts and their dependencies) from the AD domai specified.	in
Domain Name : SECURDEN AWX.COM Domain IP : 172.31.1.11 OUs Groups Computers Accounts	This GUI offers the flexibility to fetch accounts from OUx/Groups/Computers in bulk or even specific accounts, in single step. That means, you can enter the names of th OU/Groups/Computers/Accounts to be discovered in a singl step. You can enter the discovery details in any combination a you wish.	he gle
Fetch specific domain account(s). Enter your search test. Then click the 'Discover' button. Q. Search Accounts Discover	For example if you want to discover accounts from an OU an a Group, first enter/browse and select the name of the OU, clic Discover, Then go to the Groups' tab, select/browse the nam of the Group, click 'Discover'. Verity your discovery details an finally click 'Import'. Security will fetch all accounts that an part of the OU and Group specified.	ck ne nd
Verify the Objects Selected for Discovery		
Verify your search results before proceeding to importing them to Securden.		
AVSCompeter X S Allowed ROCC Password Replication Greep X S SEC-2x12-1 X S. Administrator X		
When importing accounts, should they be moved under a specific folder? Folder in Security		
-None- V [Add Foder]		
Would you like to further refine what you wish to add to Securden? Try some advanced settings (optional).		

Each setting is explained below.

What would you like to do when importing accounts?

When importing accounts, you have the option to generate and assign passwords to accounts after they are added to Securden.

V	Privileged A	ccount Manager								Q ← Search Accounts	8~
D	ashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
A	dvanced Set	tings (optional)									^
W	hat would you like	to do when importing	accounts?	7							
0	Randomize all p	swords of all accounts asswords except that o tself as password									
W	hat would you like	to do with subgroups	when importing a gro	oup?							
۲	Include domain retained in Secu	members of all subg Irden)	roups to the group I	being imported (N	Nembers of subgrou	ps will be importe	ed; but subgroup struc	cture will not be			
0	Ignore subgroup	os. Import only the men	nbers of the first leve	el group							
W	hat would you like	to happen for domain	accounts/computers	s when importing s	specific OUs / groups	?					
0	Import only the	domain accounts of the	e selected OUs / grou	aps							
		computers of the selec	ted OUs / groups								
	Import both										
0	Import none										
W	hat would you like	to do when importing	local accounts from	computers?							
0	Import only 'Adr	ninistrator' accounts									
۲	Import 'All' acco	unts									
0	Import none										

You can choose to

1. Randomize passwords of all accounts.

If you choose this option, passwords of all accounts will be randomized upon importing. The passwords assigned will be compliant with the default password policy in place at that time.

2. Randomize passwords for all accounts except service accounts.

If you choose this option, passwords of all accounts except service accounts will be randomized upon importing. The passwords assigned will be compliant with the default password policy in place at that time.

3. Use username as password.

If you choose this option, the username of the imported domain accounts will be used as the password for the account in Securden.

What would you like to do with subgroups when importing a group?

By default, when importing groups and OUs, Securden automatically discovers and imports all subgroups and their member accounts.

Privileged A	ccount Manager								Q ← Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
Advanced Se	ttings (optional)									^
What would you lik	e to do when importing a	accounts?								
	swords of all accounts basswords except that o itself as password	f service accounts								
-	e to do with subgroups v n members of all subgr urden)			Nembers of subgrou	ups will be importe	ed; but subgroup struc	cture will not be			
 Ignore subgrou 	ps. Import only the mem	bers of the first level	l group							
What would you lik	e to happen for domain a	accounts/computers	when importing s	pecific OUs / group	s?					
- 1	domain accounts of the computers of the select		ips							
What would you lik	e to do when importing l	ocal accounts from o	computers?							
-	ministrator' accounts		-							
			-							-

You can choose to

1. Include domain members of all subgroups to the group being imported.

If you choose this option, the domain accounts of all subgroups of the selected group will be imported but the domain accounts will become the member of the parent group.

2. Ignore subgroups. Import only the members of the first group.

If you choose this option, only the members of the first level group will be imported. All the member accounts of the subgroups will be ignored.

What would you like to happen to domain accounts/computers when importing specific OUs/groups?

By default, Securden discovers and imports all domain accounts and computers when importing an OU or a Group.

							Q ← Search Accounts	8~
Folders	Users	Groups	Audit	Sessions	Reports	Admin		
main accounts/computer	s when importing s	pecific OUs / groups?	·]					^
of the selected OUs / gro	ups							
selected OUs / groups								
rting local accounts from	computers?							
nts								
nat should be the account	type?							
	\sim							
counts, what should be t	he account type?							
s e o	s of the selected OUs / groups e selected OUs / groups orting local accounts from unts	s of the selected OUs / groups e selected OUs / groups orting local accounts from computers? unts that should be the account type?	s of the selected OUs / groups e selected OUs / groups orting local accounts from computers? unts that should be the account type?	e selected OUS / groups orting local accounts from computers? unts rhat should be the account type?	s of the selected OUs / groups e selected OUs / groups orting local accounts from computers? unts that should be the account type?	s of the selected OUs / groups e selected OUs / groups orting local accounts from computers? unts that should be the account type?	s of the selected OUs / groups e selected OUs / groups orting local accounts from computers? unts that should be the account type?	s of the selected OUs / groups e selected OUs / groups orting local accounts from computers? unts that should be the account type?

You can choose to

1. Import only the domain accounts of the selected OUs/Groups

If you choose this option, only domain accounts present in the selected OUs and Groups will be imported. The computers present in the OUs/Groups will not be imported.

2. Import only the computers of the selected OUs/Groups

If you choose this option, only the computers present in the selected OUs/Groups will be imported. The domain accounts present in the OUs/Groups will not be imported.

3. Import both

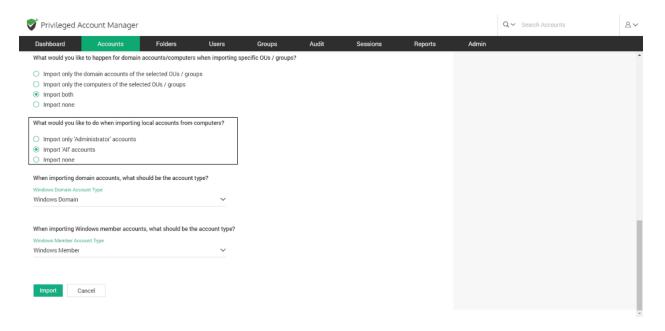
If you choose this option, both the computers and the domain accounts present in the selected OUs/Groups will be imported.

4. Import None

If you choose this option, neither the computers nor the domain accounts present in the selected OUs/Groups will be imported.

What would you like to do when importing local accounts from computers?

By default, when importing computers, Securden automatically discovers all local accounts on each computer and imports them for management.



You can choose to

1. Import only Administrator Accounts

If you choose this option, only the local administrator accounts present on computers will be imported. The standard user accounts will be ignored.

2. Import All Accounts

If you choose this option, all local administrator accounts and standard accounts will be imported.

3. Import None

If you choose this option, only the computers will be imported. The local accounts will be ignored.

When importing domain accounts, what should be the account type?

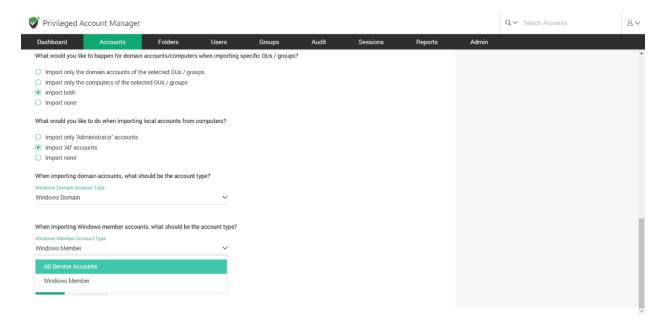
You can select the Account type for the domain accounts imported from the AD domain. By default, it is set to **Windows Domain**.

Dashboard Accounts Folders Users Groups Audit Sessions Reports Admin	Privileged A	ccount Manager								Q ← Search Accounts	8
Import only the domain accounts of the selected OUs / groups Import only the computers of the selected OUs / groups Import only the computers of the selected OUs / groups Import both Import none What would you like to do when importing local accounts from computers? Import only 'Administrator' accounts Import only Administrator' account type? Import only Administrator' Account Type Impo	Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		l i
Import only the computers of the selected OUs / groups Import only Import only that would you like to do when importing local accounts from computers? Import only Import only Ydministrator' accounts Import only Import only Import only Men importing domain accounts, what should be the account type? Import on Domain Account Type Vindows Domain Vindows Domain Vindows Domain Vindows Domain	Vhat would you like	e to happen for domain	accounts/computer	s when importing s	pecific OUs / groups	5?					
Import of 'Administrator' accounts Import All'accounts Import none When importing domain accounts, what should be the account type? Windows Domain Account Type Windows Domain Asset IsSH Connections Windows Domain	Import only theImport both		-	hups							
Import 'All' accounts Import none Import none When importing domain accounts, what should be the account type? Windows Domain Account Type Windows Domain Account Type Cisco Switch Non-Domain Asset pe? SSH Connections Windows Domain	Nhat would you like	e to do when importing	local accounts from	computers?							
Windows Domain Account Type Windows Domain Account Type Ciscco Switch Non-Domain Asset SSH Connections Windows Domain	Import 'All' acco Import none	punts	hould be the account	tuno?							
Windows Domain Ciscoo Switch Non-Domain Asset pe? SSH Connections Windows Domain			iouid be the account	type:							
Non-Domain Asset pe? SSH Connections	Windows Domain			~							
SSH Connections Vindows Domain	Ciscco Switch										
Windows Domain	Non-Domain As:	set		'pe?							
	SSH Connection	IS									
windows domain account type - test	Windows Domai	n									
	windows domain	n account type - test									

If you want to assign a different account type, select one from the dropdown menu.

When importing Windows member accounts, what should be the account type?

You can select the Account type for the member accounts imported from the AD domain. By default, it is set to **Windows Member**.



If you want to assign a different account type, select one from the dropdown menu.

Important: If the selected account type doesn't have the appropriate attributes, then when importing, data loss is expected. Please ensure the selected account type has all the attributes required to avoid data loss.

Once the options are chosen, click **Import**. The discovery process will commence.



The discovery process typically takes some time. Once the process is over, a summary report of the process will be displayed.

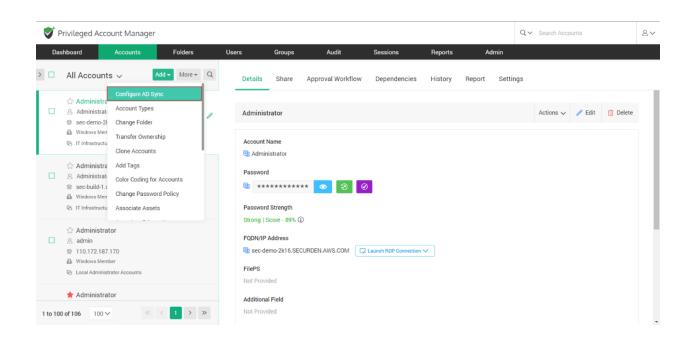
Privileged Accoun	t Manager							Q ← Search Accounts	
Dashboard A	ccounts	Folders	Users G	Groups Aud	lit Sessions	Reports	Admin		
Discovery Proc	ess Comple	ted							
Following is the summa	ary of Accounts disc	covered by Securde	n. The process of fetchi	ng dependencies is runi	ning in the background. It will	take a while to complete an	id will be autom	natically populated after completion.	
ccounts Imported	16								
Accounts Synchronized	1								
Computers Imported	0								
Q (C)								Showing 1 to 21 of 21	25 🗸
		Account							
Computer		Account	t i		Status		Reason		
Computer		N/A	α		Status		Reason N/A		
							N/A	e does not exist (or) The Machine ca	annot resp
□SEC-2K16-1		N/A			Synced		N/A	e does not exist (or) The Machine cr	annot rest
□ SEC-2K16-1 □ SEC-2K12-1		N/A N/A			 Synced X Failed 		N/A The Machin N/A	e does not exist (or) The Machine ca e does not exist (or) The Machine ca	

Details such as the number of accounts and computers imported, and accounts synchronized are displayed.

Configure Periodic Synchronization of Accounts, Endpoints, and Servers

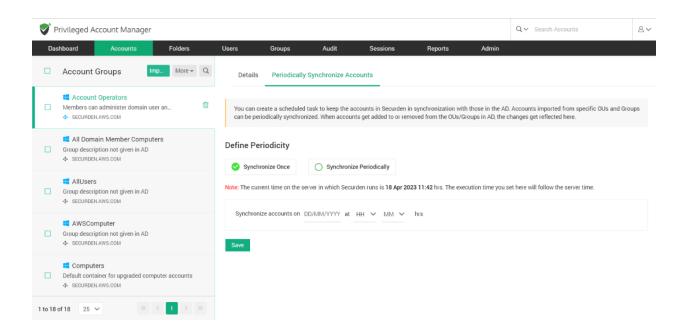
You can create a scheduled task to keep the accounts in Securden in synchronization with those in the AD. Accounts imported from specific OUs and Groups can be periodically synchronized. When accounts get added to or removed from the OUs/Groups in AD, the changes get reflected here.

Navigate to **Accounts >> More Actions >> Configure AD Sync** section to perform this step.

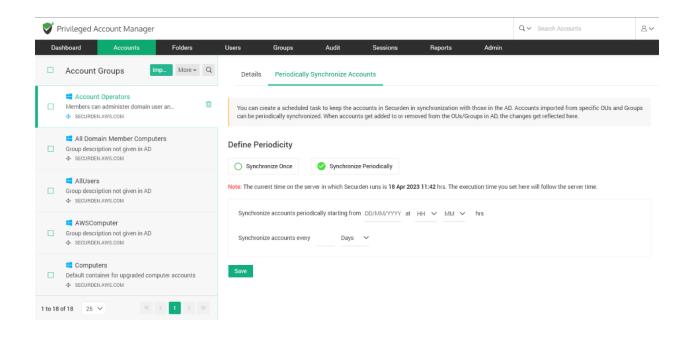


In the window that opens, select **Synchronize Once** or **Synchronize Periodically**.

If you choose to synchronize once, you need to specify the time and date for scheduling the activity.



If you choose to synchronize periodically, you need to specify the time and date for the first synchronization and the frequency of subsequent synchronizations.

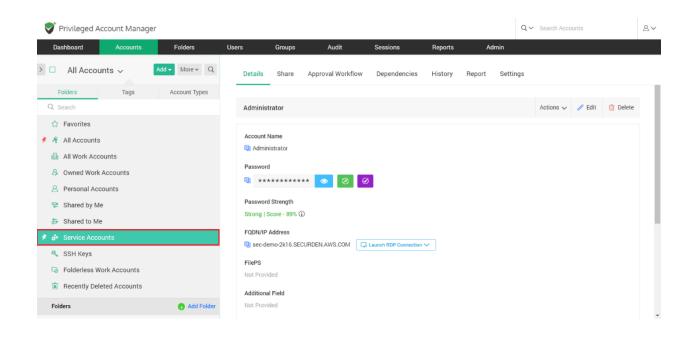


Manage Windows Service Accounts and their Dependencies

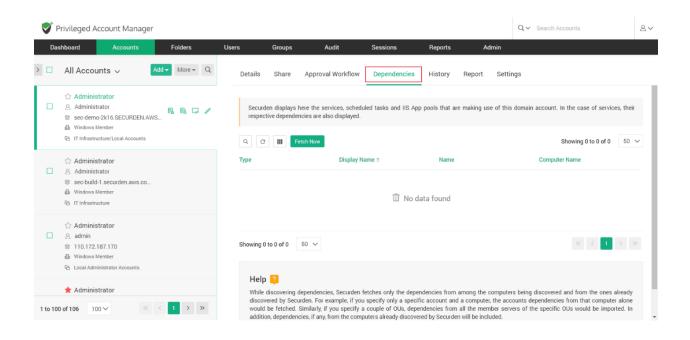
During the Windows discovery process, Securden fetches and displays the services, scheduled tasks and IIS App pools that are making use of any particular domain account. In the case of services, their respective dependencies are also displayed.

You can manage service accounts in two ways:

1. Navigate to **Accounts** >> Click **Service Accounts** in the **All Accounts** drop-down.



It will list down all the accounts that have dependencies. When you click a particular account, and then click the **Dependencies** tab in the right pane, you will see the list of all dependencies.



2. Alternatively, you can click any account available in the **Accounts** tab and then click the **Dependencies** tab in the right pane; you will see the list of all dependencies.

If you need to import recently added/configured dependencies to Securden, you can click **Fetch Now**. Securden will run the discovery process once again to fetch all the latest dependencies of the selected account.

Whenever the password of a domain account is changed, Securden propagates the change across all dependencies. This way, you can always have complete visibility and control over service accounts and dependencies.

If the password reset is not propagated to the services, you need to check and ensure the credentials provided for remote operations have admin privileges.

Troubleshooting Tips

Issue: One or more devices remain unreachable when running discovery on a distributed network. i.e., Error: Computer not reachable.

Possible cause 1: WMI service is not running on the remote computer, or the user might not have permission to access WMI services.

Troubleshooting:

Try starting WMI on the target computer. Follow the steps below:

- Open the command prompt and execute the command *net start winmgmt [/<switch>]*.
- 2. Use credentials of an administrator or a member of an administrator group to run WMI.

Possible cause 2: Port 135 not opened on the remote computer

Troubleshooting:

Navigate to **Windows Firewall** >> **Advanced Settings** and create a new Inbound rule to open port 135.

Issue: Username or Password Incorrect

Possible Cause: When you provide the IP address, Securden can query the AD domain and check whether the specified credentials are correct. If they are found to be incorrect, then the error message is displayed.

Troubleshooting Tip:

Provide the correct set of credentials for accessing the AD. The account should at least have **READ** permission in the AD.

If you want to randomize the passwords of accounts discovered at the time of discovery, you need to provide the credentials of an account with password reset and verification privileges. By default, a domain admin account carries all the required privileges. If providing a domain admin account for running Securden is not desired, you can use a standard user account and delegate the required privileges manually in AD.

Issue: While running discovery on Windows servers, IIS App pools are not populated into Securden.

Possible cause 1: Connectivity issues between the web server, jump host, and the Securden server.

Troubleshooting Tip:

If you are running a separate web server using a jump host between the Securden server and the webserver, check whether connectivity exists between the servers using WIN RM.

If connectivity doesn't exist, try enabling WIN RM 5985 port on your firewall and check whether connectivity is established. If established, try running the discovery process again.

Possible cause 2: appcmd.exe is not enabled.

You can verify whether this is the cause if the following error message is displayed: Unable to fetch dependent AppPools - WinRM: 'C:\Windows\System32\inetsrv\appcmd' is not recognized as an internal or external command.

Troubleshooting Tip:

To fetch dependent App Pools, the tool **appcmd.exe** is used, and it needs to be enabled. Follow the steps below to enable appcmd.

- 1. Open Control Panel and navigate to Turn Windows features on or off.
- Navigate to Internet Information Service >> Web Management Tools and enable IIS Management Scripts and Tools.
- You can see appcmd.exe in the folder path
 C:\Windows\System32\inetsrv.
- 4. Add the folder path to the PATH system environment variable.

Run the app discovery again to check if the problem is resolved. If the problem persists, contact **support@securden.com**.

Discovering Privileged Accounts on Mac Devices

You can discover and add Mac devices and the accounts present in each of the devices. Navigate to **Accounts** >> **Add** >> **Discover Accounts** and then click **Mac** under **Servers** in the GUI to perform this step.

ashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
cover Ac	counts									
'ou can discove	r the privileged accoun	ts from various IT ass	ets, including serv	ers, databases, and	other devices. Sele	ect an option below.				
rvers						-				
		Δ			í.					
Windo	WS	Linux		M	ас					
						1				
atabases										
Q	2			C	C		l'r			
Postgre	SQL	SQL Serv	ver	Ora	cle	M	ySQL			
etwork Devic	es									
G										

Note: Securden uses SSH for connecting to Mac devices. Hence, you should configure the firewall on your target devices to keep port 22 open.

Discovering from Mac devices is a two-step process.

Step 1: Establishing Connectivity

You need to establish connectivity between Securden and the Mac device. For Securden to connect with Mac-based devices and discover the accounts present in them, you need to specify the IP address range of the devices and the channel through which the discovery needs to be performed.

You can discover devices from a single computer or a set of computers in an IP range.

If you choose **Single Computer**, you need to specify the **Hostname/IP address** of the target machine.

Privileged Account Manager													
Dashboard Accounts Folders Us	lsers Groups	Audit	Sessions	Reports	Admin								
Discover Mac Accounts					< Back								
You can discover the Mac 05.X computers in your environment at devices that fail under an IP range or a single device. All local account of the second of				e port 22 should rema	main open in the target machines. You can discover the Wou need to supply administrator credentials so as to enable Securitor to scan the machines and fetch the accounts. If each machine in the IP range specified has different administrator credentials, you need to repeat discovery separately for each device, in such scenarios, importing accounts from CSV would be a better option than accounts discovery. Discover through unix connectors. You can specify the unix connectors You can specify the unix connectors You can specify the unix connectors will happen through that.								

If you choose **Computer in IP Range**, you need to specify the **IP Range** of the target devices. I.e., you need to specify the **Start IP** and **End IP** of the range of devices to be scanned.

💙 Privileged A	ccount Manager		Q ← Search Accounts	2~								
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover M	ac Accounts											< Back
devices that fail	under an IP range or a si onnectivity Details omputers in IP range		accounts in the ma				port 22 should rem	ain open in the target mu	achines. You can discover the	Secu If ea admi sepa acco disco Disc Disc If the you o spec	need to supply administrator credentials rden to scan the machines and fetch the a ch machine in the IP range specifie nistrator credentials, you need to n rately for each device. In such scen unts from CSV would be a better option	ccounts. d has different peat discovery arios, importing n than accounts different subnet, nectors. You can
Retry discovery Select gateway or v Belect Remote Gatew Search remote gate Next Can	vay way		Unix Connector									

Once the IP addresses of the devices have been specified, you need to provide the following details.

- Connection timeout: The maximum time in seconds Securden can attempt to establish connectivity with the devices before terminating the process.
- Retry discovery process again: If connectivity to one or more devices cannot be established at present, Securden can attempt to connect with the devices later. You need to specify the time (in hours) after which the attempt to connect should be made.

Discovering through Remote Gateway

If the devices belong to a different network than the Securden server, you can route the connection through a remote gateway.

💙 Privileged A	ccount Manager				Q ← Search Accounts	8~						
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover M	lac Accounts											< Back
You can discov devices that fai Step 1: Enter C Discover (e) C Start IP * Connection timesulfin 10	er the Mac OS X comput I under an IP range or a si onnectivity Details omputers in IP range seconds) *	Single device. All loca	l accounts in the r				e port 22 should rem	ain open in the target m	achines. You can discover the	You nee Securder If each administ separate accounts discover Discove If the de you can	to supply administrator credentials is to scan the machines and fetch the ac machine in the IP range specified rator credentials, you need to rej y for each device. In such scans from CSV would be a better option / three through unix connector ince you want to discover belong to a c ry discovering them through unix conn he unix connectine here and discover	o as to enable counts. has different eat discovery ios. importing than accounts ifferent subnet, retors. You can
Select Remote Gate Search remote gate Next Car	eway		~									

You can select the appropriate remote gateway from the drop-down and the discovery will happen through the selected gateway.

Discovering through a Unix Connector

If the devices you want to discover belong to a different subnet, you can try discovering them through Unix connectors.

Privileged /	Account Manager									QV Se	arch Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover M	Accounts											< Back
You can diaco devices that fa Step 1: Enter (C Discover © C Start IP * Connection timeor() 10	ver the Mac OS X comput II under an IP range or a si II under an IP range Connectivity Details Computers in IP range In seconds) * y process again after 5 y process again after 5 via channel O Remo	ingle device. All local	er End IP Unix Connector				e port 22 should rem	ain open in the Target	machines. You can discover the	Securden to scan the n If each machine in administrator credent separately for each accounts from CSV w discovery. Discover through un If the devices you want you can try discovering	Iministrator credentials so a machines and fetch the accou halo. The prange specified h ials, you need to repeat device. In such scenarios ould be a better option tha ix connector Ito discover belong to a diffe them through unix connect tector here and discovery i	as to enable ints. as different t discovery s, importing an accounts erent subnet, ors. You can
Next Ca	ncel											

You can select a Unix connector from the drop-down and discovery will happen through the selected connector.

💙 Privileged A	Privileged Account Manager Q Search Accounts & A													
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin						
Discover N	lac Accounts											< Back		
devices that fai	ver the Mac OS X compu II under an IP range or a s connectivity Details omputers in IP range		Securo If eac admin separa accour	ed to supply administrator credentials len to scan the machines and fetch the id- h machine in the IP range specifii strator credentials, you need to r tely for cach device. In such scer ts from CSV would be a better optio	accounts. ed has different epeat discovery narios, importing									
Start IP * 172.109.12.1 Connection timeout(in 10		- unge ungel	End IP 172.109.20	0.9						If the o you ca	ver through unix connector levices you want to discover belong to a n try discovering them through unix cor r the unix connector here and disco	nectors. You can		
Select gateway or		hours.	Inix Connector											
Select Remote Gate New York Data Cen			~											

Once all the required details have been provided, you can click **Next**.

Step 2: Enter Credentials and Discover

Securden needs to authenticate the connection with the devices to perform discovery. For this purpose, you can specify the root account credentials or sudo (Superuser Do) user credentials. Securden will also use the administrator credentials for performing remote actions like password verification and reset apart from account discovery.

You need to supply two sets of credentials, one for remote login and the other to fetch the accounts and onboard it to Securden.

1. Supply remote login credentials

You need to provide the login credentials of an administrator user on the target device for Securden to log in securely. You can choose between a **Password** or a **Public Key Infrastructure (PKI file)** as the authentication type.

If you choose a password-based authentication method, you need to specify the **Account Name** along with the corresponding **Password**.

V Privileged Account Manager													
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin					
Discover N	lac Accounts											< Back	Í
Step 2: Enter Credentials and Discover Help @ You need to supply administrator credentials to as on tenable securate to scan the machines and fetch the accounts. First, you should supply the credentials to remotely log in to the machine. Then you need to supply administrator credentials to discover the accounts from the machines. Help @ Supply remote login credentials If each machine in the IP range specified has differed invisitator credentials to discover the accounts. First, you should supply the credentials to remotely log in to the machine. Then you need to separately for each device, in such scenarios, import accounts from the machines. If each machine in the IP range specified has differed invisitator credentials to discover the accounts. First, you should supply the credentials to discover the accounts. If each machine in the IP range specified has differed invisitator credentials to discover the accounts. First, you should supply the credentials to discover the accounts. If each machine in the IP range specified has differed invisitator credentials to discover the accounts. Import accounts first you should be a better option than account discover. Authentication type IP Reserved ID Reserved Discover through unix cometers. You you can try discover being the different you is cometers. You you can try discovering them through unix cometers. You you can try discovering them through unix cometers. You you can try discovering them through unix cometers. You you can try discovering them through unix cometers. You you can try discovering them through unix cometers. You you can try discovering them through unix cometers. You you can try discovering them through unix cometers. You you can try discovering them through unix cometers. You you can try d													
Account Name * Password *		4	þ							you can try d specify the through that. Advanced If you want t account typ part of the	liscovering them through unix connect unix connector here and discovery	ors. You can will happen er a specific ect them as	
	yed credentials to fe gin credentials as specifi re									You have the the account: option, Secu	Passwords After Discovery explicit to assign strong and unique p immediately after discovery. If you riden generates passwords based on it lied and assigns them to the account	choose this he password	
🚯 Advanced opti	ons												

If you choose to authenticate using a PKI file, you have two options.

💙 Privileged Ad	count Manager										Q ← Search Accounts	2~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover M	ac Accounts											< Back
Step 2: Ente	er Credentials	and Discove	er								to supply administrator credentials to scan the machines and fetch the A	
	ply administrator crede • 'sudo' or 'root' credenti				I fetch the accoun	ts. First, you should su	pply the credentials	to remotely log in to the m	nachine. Then you need to	administr separatel	machine in the IP range specifie ator credentials, you need to r y for each device. In such scer from CSV would be a better optio	repeat discovery narios, importing
Supply remote I	login credentials									discovery		
Authentication type Account Name *	O Password	PKI								If the dev you can t	r through unix connector ices you want to discover belong to a ry discovering them through unix con he unix connector here and disco- hat.	nectors. You can
Private Key 💿	Select from Securden	 Select from 	n your computer							If you wa account i part of t	ced Options In the accounts being discovered fail type classification and a folder, you he advanced options. This will sav	a select them as
Select from Securden Search Accounts			~								forts after discovering the accounts. ize Passwords After Discovery	_
	ed credentials to fe									the accor option, Sr	the option to assign strong and uniq unts immediately after discovery. If ecurden generates passwords based ecified and assigns them to the ac	you choose this on the password
Authentication Type	e 🖲 sudo 🔾	root										

You can either choose an SSH key from Securden if available. You need to choose from the drop-down menu.

💙 Privileged A	ccount Manager										Q ← Search Accounts	8
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover N	lac Accounts											< Back
Step 2: Ente	er Credentials	and Discove	er							1	Help 2	
	pply administrator crede e 'sudo' or 'root' credenti				d fetch the accoun	ts. First, you should s	upply the credentials	to remotely log in to t	he machine. Then you need t	1 0) 8	f each machine in the IP range specified administrator credentials, you need to rej separately for each device. In such scena accounts from CSV would be a better option	I has different peat discovery rrios, importing
Supply remote	login credentials									0	discovery. Discover through unix connector	
Authentication type	Password	PKI								1	f the devices you want to discover belong to a c you can try discovering them through unix conn specify the unix connector here and discove	ectors. You can
Account Name *										t	hrough that.	лу маг паррел
Private Key Select from Securder	Select from Securden	 Select from 	your computer							a I	Advanced Options f you want the accounts being discovered fall to account type classification and a folder, you ant of the advanced options. This will save editing efforts after discovering the accounts.	select them as
Search Accounts			~							F	Randomize Passwords After Discovery	
Supply privileg	ed credentials to fe	tch accounts								t	rou have the option to assign strong and uniqu the accounts immediately after discovery. If y option, Securden generates passwords based o	ou choose this in the password
🗹 Use remote log	jin credentials as specifi	ed above									policy specified and assigns them to the accordences.	ounts on target
Authentication Typ	e 💿 sudo 🔾	root										

You can upload the key file from your computer.

Privileged Account Manager Q~ Set													
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin					
Discover N	lac Accounts											< Back	
Step 2: Ente	er Credentials	and Discove	r								2 d to supply administrator credentials so a n to scan the machines and fetch the accou		
	pply administrator crede e 'sudo' or 'root' credentia				fetch the accounts	s. First, you should su	pply the credentials to	o remotely log in to the ma	achine. Then you need to	administ	machine in the IP range specified ha rator credentials, you need to repeat ly for each device. In such scenarios,	discovery	
Supply remote	login credentials									accounts discover	from CSV would be a better option that y.	accounts	
Authentication type	Password	PKI								If the dev you can t	r through unix connector rices you want to discover belong to a differ try discovering them through unix connecto the unix connector here and discovery v that	s. You can	
	Select from Securden	Select from	your computer							Advan If you wa account part of 1	ced Options In the accounts being discovered fall unde type classification and a folder, you sele the advanced options. This will save sor	t them as	
Select from your co Choose a file	mputer *	Brows	Passphras	e		ø				Randon You have the acco	fforts after discovering the accounts. hize Passwords After Discovery the option to assign strong and unique pa unts immediately after discovery. If you c	hoose this	
	ed credentials to fe										ecurden generates passwords based on the ecified and assigns them to the account:		
Authentication Typ	e 🖲 sudo 🔿	root											

If you choose to upload a file from your computer, you need to provide the **passphrase** required to access the file.

Once the credentials for remote login are supplied, you need to specify the privileged credentials required to fetch the accounts present in the devices.

If the credentials required to fetch the accounts are the same as the credentials used for remote login, then you can select the checkbox named **Use remote login credentials as specified above**.

💙 Privileged Acc	count Manager									Q ✓ Search Accounts	8
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Supply remote lo	ogin credentials								discovery.	om CSV would be a better option than acc	counts
Authentication type	O Password	PKI							If the device you can try d	rough unix connector s you want to discover belong to a different s liscovering them through unix connectors. Yo unix connector here and discovery will h	ou can
Account Name *									through that		
										d Options	
Private Key (S	elect from Securden	 Select from 	your computer						account type part of the	he accounts being discovered fall under a sp e classification and a folder, you select the advanced options. This will save some m is after discovering the accounts.	em as
Select from your com	iputer *		Passphras	p		ф					
Choose a file		Brows	e							Passwords After Discovery e option to assign strong and unique passwo	vide to
Supply privileged	d credentials to fe	tch accounts							the account option, Secu policy specif	s immediately after discovery. If you choos rden generates passwords based on the pas fied and assigns them to the accounts on	e this sword
Use remote login	n credentials as specifi	ed above							devices.		
Authentication Type	● sudo ○	root									
Password			Ф								
Advanced options	5										
Back Disc	cover Cancel										

You can choose between **sudo** and **root** as the authentication type.

💙 Pr	ivileged Acc	count Manager									Q V Search Accounts	8~
Dast	nboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		om CSV would be a better option than a	
Sup	ply remote lo	ogin credentials								discovery.	om CSV would be a better option than at	counts 🔺
Authe	entication type	O Password	• PKI								nrough unix connector	
Avun	incontrype		0.114							you can try	s you want to discover belong to a different discovering them through unix connectors. Y	/ou can
Acco	unt Name *									specify the through that	unix connector here and discovery will	happen
										Advance	d Options	- 1
Privat	ie Key (S	elect from Securden	 Select from yo 	ur computer						account typ	the accounts being discovered fall under a e classification and a folder, you select th	hem as
Selec	t from your com	puter*									advanced options. This will save some ts after discovering the accounts.	nanual
Choo	se a file		Browse	Passphrase			ø			Randomiz	Passwords After Discovery	
										the account	e option to assign strong and unique passw is immediately after discovery. If you choo	se this
Sup	ply privileged	d credentials to f	etch accounts								irden generates passwords based on the pa fied and assigns them to the accounts or	
2 U	Jse remote login	n credentials as specif	ied above							devices.		
Authe	entication Type	🖲 sudo 🔾	root									
Passi	word		4	6								
4 A	dvanced options	5										
В	ack Disc	cover Cancel										
												+

If you are using separate credentials for fetching accounts, you need to specify the account name and password for the same.

Dashboard Accounts Folders Users Groups Audit Sessions Reports Admin	
you can try discovering	nt to discover belong to a different subnet, ig them through unix connectors. You can inector here and discovery will happen
account type classifica	ints being discovered fall under a specific ication and a folder, you select them as d options. This will save some manual
Choose a file Brewse Passphrase P	ords After Discovery to assign strong and unique passwords to iately after discovery. If you choose this
Supply privileged credentials to fetch accounts option. Securden general	erates passwords based on the password assigns them to the accounts on target
Authentication Type	
Account Name *	
Password 🖝	
Advanced options	
Back Discover Cancel	

Important:

When choosing to use the same remote login credentials for fetching accounts:

- 1. For **root** authentication, you need not specify the account name or the password.
- 2. For **sudo** authentication:
 - a. If you chose password authentication for remote login, you need not specify your account name or password.
 - b. If you chose to authenticate with a PKI file in the previous step, you need to specify the password for fetching accounts.

Advanced Options

You have the options to add all the discovered accounts into a specific folder and assign them a specific account type. This will help mitigate the efforts required for classifying the accounts at a later time.

💙 Privileged Acc	ount Manager									Q ← Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Account Name *	0.111111		_						you can try d	you want to discover belong to a different sub- iscovering them through unix connectors. You ounix connector here and discovery will happ	can
									Advanced	d Options	
,		 Select from yo 	ur computer						account type part of the	he accounts being discovered fall under a spec e classification and a folder, you select them advanced options. This will save some mar s after discovering the accounts.	as
Select from your com Choose a file	puter *	Browse	Passphrase			ø					
choose a file		browse								Passwords After Discovery option to assign strong and unique passwords	
Supply privileged	l credentials to fetch	accounts							the accounts option. Secur	immediately after discovery. If you choose to den generates passwords based on the passw fied and assigns them to the accounts on tar	this
Use remote login	credentials as specified al	bove							devices.		
Authentication Type	● sudo 🔿 root										
Account Name *											
Password		9	Þ								
Advanced options Back Disc	over Cancel										
owork Oliv	Junca										-

1. If you want to assign all the imported accounts a specific account type, you can select one from the drop down.

Dashboard	Accounts	Folders	Users Passphrase	Groups	Audit	Sessions	Reports	Admin	
oose a file		Browse	Passpirase			40			Randomize Passwords After Discovery
									You have the option to assign strong and unique passwords t the accounts immediately after discovery. If you choose th
upply privilege	d credentials to f	etch accounts							option, Securden generates passwords based on the passwor policy specified and assigns them to the accounts on targe devices.
] Use remote logir	n credentials as speci	fied above							devices.
uthentication Type	⊚ sudo O	root							
ccount Name *									
assword			ъ						
dvanced Option	ns								
ccount Type lac			v						
older in Securden None			V [Add Folder]						
] Randomize passv	vords after accounts (discovery 🚯							

2. If you want to add all the imported accounts to a folder, you can select one from the drop down.

										Q ← Search Accounts	8
	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Choose a file Supply privilege	d credentials to fe	Browse	Passphrase			¢			You have the the accounts option. Secu	Passwords After Discovery e option to assign strong and unique pass s immediately after discovery. If you ch rden generates passwords based on the fied and assigns them to the accounts	oose this password
Use remote logir	in credentials as specifi	ed above							devices.	ince and assigns them to the accounts	on target
Authentication Type	● sudo ○	root									
Account Name *			_								
Q Search											
-None											
👻 🗋 IT Infrastr	ructure										
🗅 AP	PI Test										
🗅 Loo	cal Accounts										
🗅 Op	en Connection										
Ph. 06	itor										
-None-			V Add Folder]								
] Randomize passi	words after accounts di	iscovery									
Back Dis	cover Cancel										

If you want to create a new folder for this purpose, you need to click on **[Add Folder]**.

Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin	
hoose a file		Browse	Passphrase			10			Randomize Passwords After Discovery
									You have the option to assign strong and unique passwords t the accounts immediately after discovery. If you choose thi
Supply privileg	ed credentials to f	etch accounts							option. Securden generates passwords based on the passwor policy specified and assigns them to the accounts on targe
Use remote log	jin credentials as speci	fied above							devices.
Authentication Typ	e 🖲 sudo 🔾) root							
Account Name *									
coount name -									
Q Search									
-None									
👻 🗋 IT Infras	tructure								
🗅 A	PI Test								
C U	ocal Accounts								
D 0	pen Connection								
	fizar								
-None-			✓ [Add Folder]						

3. You have the option to assign strong and unique passwords to the accounts immediately after discovery.

💙 Privileged Ac	count Mana	ger									Q ← Search Accou	nts	8~
Dashboard	Accounts	Fol	ders	Users	Groups	Audit	Sessions	Reports	Admin				
Choose a file Supply privilege				Passphrase			ø			You ha the ac option	white Passwords After Disc ave the option to assign strong counts immediately after disc . Securden generates password specified and assigns them t s.	and unique passwords overy. If you choose t is based on the passw	this rord
Use remote log		o root	e										
Account Name *			¢	•									ł
Advanced Optic	ns												
Mac Folder in Securden -None-				 [Add Folder] 									
Randomize pass	words after acco	unts discovery	()										
Back Dis	scover Ca	ncel											

If you choose this option, Securden generates passwords based on the password policy specified and assigns them to the accounts on target devices.

Note: The credentials used for authentication will not be randomized if this option is chosen.

Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin	
hoose a file		Brow	Passphrase			ø			Randomize Passwords After Discovery
									You have the option to assign strong and unique passwords to the accounts immediately after discovery. If you choose this
upply privilege	ed credentials to	fetch accounts							option. Securden generates passwords based on the password policy specified and assigns them to the accounts on target
Use remote log	jin credentials as spec	cified above							devices.
uthentication Type	e 🖲 sudo 📿) root							
ccount Name *									
assword			ø						
dvanced Optic	ons								
ccount Type									
lac			~						
older in Securden									
None-			 [Add Folder] 						

Once all the required parameters have been specified, click **Discover**.

The process takes a few minutes to complete. Once it is completed, complete results with a list of accounts and their status is displayed. You can view how many accounts were successfully imported.

Discovering Privileged Accounts on Linux Devices

You can discover and add Linux devices and the accounts present in each of the devices. Discovering from Linux devices is a two-step process. First, you need to establish connectivity between Securden and the Linux server.

Navigate to **Accounts** >> **Add** >> **Discover Accounts** and then click **Linux** under **Servers** in the GUI to perform this step.

Note: Securden uses SSH for connecting to Linux devices. Hence, you should configure the firewall on your target devices to keep port 22 open.

Privileged A	Account Manage	r							$Q \sim$ Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
Discover A	ccounts									Î
You can discov	er the privileged accou	unts from various IT ass	ets, including serve	ers, databases, and o	ther devices. Sele	ect an option below.				
Servers										
		Δ		e	,					
Wind	ows	Linux		Ma	iC					
Databases										- 1
G	2			C	D					
Postgr	eSQL	SQL Serv	rer	Ora	cle	Му	/SQL			
										-

Step 1: Establishing Connectivity

For Securden to connect with Linux-based devices and discover the accounts present in them, you need to specify the IP address range of the devices and the channel through which the discovery needs to be performed.

You have the option to discover devices from a single computer or from a set of computers in an IP range.

If you choose **Single Computer**, you need to specify the **Hostname/IP address** of the target machine.

Privileged /	Account Manager									Q ← Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Discover L	inux Accounts	3									< Back
	over the Linux computers a can discover the device								Securder	d to supply administrator credentials so as n to scan the machines and fetch the accoun	ts.
	Connectivity Details Computers in IP range	 Single Comput 	ter						administ separate	machine in the IP range specified has rator credentials, you need to repeat by for each device. In such scenarios, s from CSV would be a better option than y.	discovery importing
Hostname/IP Addres 192.168.1.1	5*								Discove	r through unix connector	
Connection timeout(in seconds) *								you can	rices you want to discover belong to a differe try discovering them through unix connector the unix connector here and discovery w that.	s. You can
Retry discover	ry process again after 5	hours.									
Select gateway or	via channel 💿 Rem	note Gateway 🔾	Unix Connector								
Select Remote Gate Search remote gat			~								
Next Ca	incel										

If you choose **Computer in IP Range**, you need to specify the **IP Range** of the target devices. I.e., specify the **Start IP** and **End IP** of the range of devices to be scanned.

Note: If each machine in the IP range specified has different administrator credentials, you need to repeat the discovery separately for each device. In

such scenarios, importing accounts from CSV would be a better option than accounts discovery.

Privileged /	Account Manager									Q ← Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Discover L	inux Accounts										< Back
	over the Linux computers u can discover the devices									supply administrator credentials so as scan the machines and fetch the account	
·	Connectivity Details Computers in IP range	O Single Computer							administrate separately	chine in the IP range specified has r credentials, you need to repeat for each device. In such scenarios, om CSV would be a better option than	discovery importing
Start IP * 192.168.1.1			End IP 192.168.1.2						Discover th	rough unix connector	
Connection timeout(in seconds) *		192.108.1.2						you can try o	s you want to discover belong to a different liscovering them through unix connectors unix connector here and discovery will.	. You can
Retry discover	ry process again after 5	hours.									
Select gateway or	via channel 💿 Remo	ote Gateway 🔿 U	nix Connector								- 1
Select Remote Gate Search remote gal			-								
Next Ca	incel										

Once the IP addresses of the devices have been specified, you need to provide the following details:

- Connection timeout: The maximum time in seconds Securden can attempt to establish connectivity with the devices before terminating the process.
- Retry discovery process again: If connectivity to one or more devices cannot be established at present, Securden can attempt to connect with the devices at a later time. You need to specify the time (in hours) after which the attempt to connect should be made.

💙 Privileged Account Manager									Q ← Search Accounts	2~
Dashboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Discover Linux Accounts									1	< Back
You can discover the Linux computers in machines. You can discover the devices the								Securden to	supply administrator credentials so as to scan the machines and fetch the accounts chine in the IP range specified has	
Step 1: Enter Connectivity Details Discover Ormputers in IP range	 Single Computer 							administrato separately	for credentials, you need to repeat d for each device. In such scenarios, ir om CSV would be a better option than a	iscovery nporting
Start IP *		End IP						Discover th	rough unix connector	
172.168.72.1 Connection timeout(in seconds) * 10		172.168.73.5						you can try o	s you want to discover belong to a differen discovering them through unix connectors. unix connector here and discovery will	You can
Retry discovery process again after 5	hours.									- 1
Select gateway or via channel	e Gateway 🔿 Ur	ix Connector								
Select Remote Gateway None	~									
Next Cancel										

Discovering through Remote Gateway

If the devices belong to a different network than the Securden server, you can route the connection through a remote gateway. You can select the appropriate remote gateway from the drop-down and the discovery will happen through the selected gateway.

Privileged A	ccount Manager									Q ← Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Discover L	inux Accounts	5								l	< Back
	ver the Linux computer can discover the device									o supply administrator credentials so as t scan the machines and fetch the accounts	
	connectivity Details	S Single Comput	ter						administrat separately	achine in the IP range specified has or credentials, you need to repeat of for each device. In such scenarios, in om CSV would be a better option than a	iscovery nporting
Hostname/IP Address 192.168.1.1	*								If the device	hrough unix connector as you want to discover belong to a differen discovering them through unix connectors.	
Connection timeout(in	seconds) *									unix connector here and discovery will	
Retry discovery	process again after 5	hours.									
Select gateway or v	via channel 💿 Ren	note Gateway 🔘) Unix Connector								
Select Remote Gates	мау		~								
Next Can	ncel										

Discovering through a Unix Connector

If the devices you want to discover belong to a different subnet, you can try discovering them through Unix connectors. You can select a Unix connector from the drop-down and discovery will happen through the selected connector.

Privileged A	ccount Manager									Q ✓ Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Discover Li	nux Accounts									E	ack
	er the Linux computers can discover the devices									supply administrator credentials so as to er scan the machines and fetch the accounts.	able
	onnectivity Details	 Single Compute 	r						administrato separately	chine in the IP range specified has diff or credentials, you need to repeat disco for each device. In such scenarios, impo om CSV would be a better option than acco	very rting
Hostname/IP Address 192.168.1.1									Discover th	rough unix connector s you want to discover belong to a different su	
Connection timeout(in 10	seconds) *									discovering them through unix connectors. You unix connector here and discovery will ha	
Retry discovery	process again after 5	hours.									- 1
Select gateway or v	ia channel 🛛 🔿 Remo	te Gateway 💿	Unix Connector								
Select Unix Connector Search unix connect		~ (Ð								
Next Can	cel										

Once all the required details have been provided, you can click **Next**.

Step 2: Enter Credentials and Discover

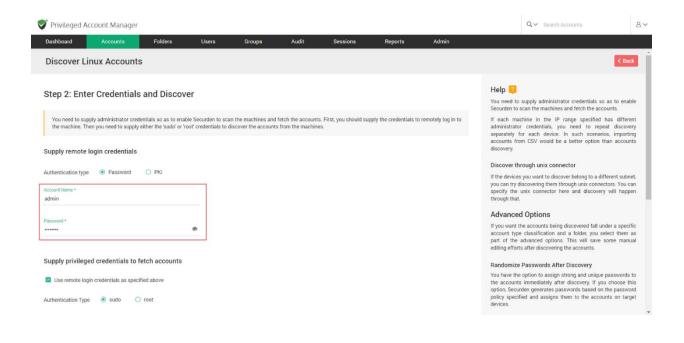
Securden needs to authenticate the connection with the devices to perform discovery. For this purpose, you can specify the root account credentials or sudo (Superuser Do) user credentials. Securden will also use the administrator credentials for performing remote actions like password verification and reset apart from account discovery. You need to supply two sets of credentials, one for remote login and the other to fetch the accounts and onboard it to Securden.

1. Supply remote login credentials

Privileged Acco	unt Manager									Q ← Search Accounts	8
Dashboard	Accounts Fol	Iders	Users	Groups	Audit	Sessions	Reports	Admin			
Discover Linu	x Accounts									1	< Back
Step 2: Enter (Credentials and	Discover								supply administrator credentials so as to scan the machines and fetch the accounts	
	dministrator credentials so ou need to supply either the						pply the credentials to	remotely log in to	administrate	achine in the IP range specified has or credentials, you need to repeat d for each device. In such scenarios, in	iscovery
Supply remote logi	n credentials									om CSV would be a better option than a	
uthentication type	Password O PK	a								arough unix connector s you want to discover belong to a different	t subnet,
ccount Name * Idmin										discovering them through unix connectors. unix connector here and discovery will	
essword *									Advance	d Options	
assword *		Ф							account typ part of the	the accounts being discovered fall under a e classification and a folder, you select t advanced options. This will save some ts after discovering the accounts.	them as
Supply privileged o	redentials to fetch ac	counts							Randomize	Passwords After Discovery	
-	edentials as specified abov	re							the account option, Secu	e option to assign strong and unique pass s immediately after discovery. If you cho irden generates passwords based on the p fied and assigns them to the accounts o	ose this assword

You need to provide the login credentials of an administrator user on the target device for Securden to login securely.

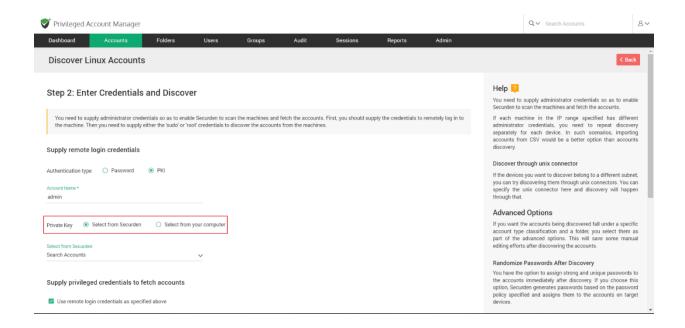
i. You need to specify the **Account Name** of the administrator account.



ii. You can choose between a **Password** or a **Public Key Infrastructure** (**PKI file**) as the authentication type.

Privileged A	ccount Manager									Q 🛩 Search Accounts	2~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Discover L	inux Accounts										< Back
Step 2: Ent	er Credentials	and Discove	er							to supply administrator credentials s	
	pply administrator crede nen you need to supply e						oly the credentials to	remotely log in to		nachine in the IP range specified itor credentials, you need to rep	
Supply remote Authentication typ Account Name * admin	login credentials	О РКІ							accounts discovery. Discover If the devic you can tr	for each device. In such scena from CSV would be a better option through unix connector the you want to discover belong to a d discovering them through unix conne e unix connector here and discove at.	than accounts lifferent subnet, ectors. You can
									Advanc	ed Options	
Password *			ø						account to part of th	t the accounts being discovered fall u ype classification and a folder, you e advanced options. This will save orts after discovering the accounts.	select them as
Supply privileg	ed credentials to fe	etch accounts							Randomi	ze Passwords After Discovery	
Use remote lo	gin credentials as specif e () sudo ()	ied above root							the accou option, Se	he option to assign strong and uniquents immediately after discovery. If yo curden generates passwords based or cified and assigns them to the acco	ou choose this n the password
									devices,		

If you choose to authenticate using a PKI file, you have two options.



You can either choose an SSH key from Securden if available. You need to choose from the drop-down menu. (or)

You can upload the key file from your computer.

If you choose to upload a file from your computer, you need to provide the **passphrase** required to access the file.

Privileged Ac	count Manager									Q ← Search Accounts	
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Discover Li	nux Accounts										< Bac
Step 2: Ente	er Credentials	and Discove	r							d to supply administrator credentials so a to scan the machines and fetch the account of the machines are structured.	
	ply administrator crede en you need to supply e						oply the credentials to	o remotely log in to	administ separate	machine in the IP range specified ha rator credentials, you need to repeat ly for each device. In such scenarios, s from CSV would be a better option tha	discove importi
upply remote I	ogin credentials								discover		
Authentication type Account Name * Admin	O Password	PKI							If the dev you can	vices you want to discover belong to a differ try discovering them through unix connector the unix connector here and discovery v	ors. You ca
									Advan	ced Options	
rivate Key O	Select from Securden	 Select from y 	our computer						account part of	ant the accounts being discovered fall unde type classification and a folder, you sele the advanced options. This will save so fforts after discovering the accounts.	ct them
hoose a file	nputer	Browse	Passphras	e		Ф			Randon	nize Passwords After Discovery	
Supply privilege	d credentials to fe	etch accounts	L						You have the acco option, S	e the option to assign strong and unique pa punts immediately after discovery. If you o decurden generates passwords based on th becified and assigns them to the account	choose the passwo
I line remote land	n credentials as specif	ied above									

Once the credentials for remote login are supplied, you need to specify the privileged credentials required to fetch the accounts present in the devices.

If the credentials required to fetch the accounts are the same as the credentials used for remote login, then you can select the checkbox named **Use remote login credentials as specified above**.

Dashboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
aleer nom your computer -	Folders		Gloups	Addit		Reports	Admin	_		
hoose a file	Browse	Passphrase			45			Randomiz	e Passwords After Discovery	
									ne option to assign strong and unique p	
upply privileged credentials to fe	etch accounts							option, Sec	its immediately after discovery. If you urden generates passwords based on th	he password
								policy spec devices.	ified and assigns them to the accoun	nts on targe
Use remote login credentials as specif	ied above									
uthentication Type 💿 sudo 🔘	root									
unennoauon type Studo	1001									
ssword										
	4	9								
dvanced Options										
count Type										
nux		~								
lder in Securden Ione		V [Add Folder]								
ione-		- pair oned								
Randomize passwords after accounts d										
nandomize passwords after accounts o	iscovery (
Back Discover Cancel										

You can choose between **sudo** and **root** as the authentication type.

💙 Privileged Ac	count Manager									Q ← Search Accounts	8~
Dashboard		Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Choose a file	nputer -	Browse	Passphrase			Ф				Passwords After Discovery e option to assign strong and unique pas	everde te
	d credentials to fetch								the account option, Secu	e oprion to assign strong and unique pas s immediately after discovery. If you of rden generates passwords based on the fied and assigns them to the accounts	password
Authentication Type	● sudo 🔿 root]									
Password		ф									
Advanced Optio Account Type Linux	ns										
Folder in Securden None			 [Add Folder] 								
	words after accounts discov	ery 🛈									

If you are using separate credentials for fetching accounts, you need to specify the account name and password for the same.

V Privileged Account Manager	Q 🗸 Search Accounts
Dashboard Accounts Folders Users Groups Audit Sessions Reports Admin	
Step 2: Enter Credentials and Discover	Help 闷 You need to supply administrator credentials so as to ena Securden to scan the machines and fetch the accounts.
You need to supply administrator credentials so as to enable Bocurden to scan the machines and fetch the accounts. First, you should supply the credentials to remotely log in the supply either the 'sudo' or 'noor' credentials to discover the accounts from the machines. Supply remote login credentials	o the machine. Then you need to administrator condentials, you need to repeat discov- eparately for each device. In such scenarios, import accounts from CSV would be a better option than accou discovery.
Authentication type Password PKI Account Name * admin	Discover through unix connector If the devices you want to discover belong to a different subry you can try discovering them through unix connectors. You specify the unix connector here and discovery will happ through that.
Samend *	Advanced Options If you want the accounts being discovered fail under a spec- account type classification and a folder, you select them part of the advanced options. This will save some man- editing efforts after discovering the excounts.
Supply privileged credentials to fetch accounts Use remote login credentials as specified above Authentication Type Sudo root	Randomize Passwords After Discovery You have the option to assign strong and unique password the accounts mmediately after discovery. If you choose to option, Security expendient generates passing based on the passw palicy specified and assigns them to the accounts on tar divides.
Account Name *	
Password Advanced options	

Important:

When choosing to use the same remote login credentials for fetching accounts:

- 1. For **root** authentication, you need not specify the account name or the password.
- 2. For **sudo** authentication:
 - a. If you choose password authentication for remote login, you need not specify your account name or password.
 - b. If you choose to authenticate with a PKI file in the previous step, you need to specify the password for fetching accounts.

💙 Privileged Account Manager	Q ✓ Search Accounts & ✓
Dashboard Accounts Folders Users Groups Audit Sessions Reports Admin	
Step 2: Enter Credentials and Discover	Help 👔 You need to supply administrator credentials so as to enable
You need to supply administrator credentials so as to enable Securden to scan the machines and fetch the accounts. First, you should supply the credentials to remotely log in to the machine. Then you need to supply either the 'sudo' or 'toor' credentials to discover the accounts from the machines.	Securden to scan the machines and fetch the accounts. If each machine in the IP range specified has different administrator credentials, you need to repeat discovery separately for each device. In such scenarios, importing
Supply remote login credentials	accounts from CSV would be a better option than accounts discovery.
Authentication type O Password 🛞 PKI	Discover through unix connector If the devices you want to discover belong to a different subnet, you can try discovering them through unix connectors. You can
Account Name * admin	specify the unix connector here and discovery will happen through that.
Private Key	Advanced Options If you want the accounts being discovered fall under a specific account type classification and a folder, you select them as part of the advanced options. This will save some manual editing efforts after discovering the accounts.
Search Accounts	
Supply privileged credentials to fetch accounts	Randomize Passwords After Discovery You have the option to assign strong and nuique passwords to the accounts immediately after discovery. If you choose this option, Securden generates passwords based on the password policy specified and assigns them to the accounts on target devices.
Ose remote rogin of exemutians as specified above	devices.
Authentication Type	
Pasanoid	
Advanced options	

Advanced Options

You have the options to add all the discovered accounts into a specific folder and assign them a specific account type. This will help mitigate the efforts required for classifying the accounts at a later time. 1. If you want to assign all the imported accounts a specific account type, you can select one from the drop down.

	ccounts Fo	olders	Users	Groups	Audit	Sessiona	Reports	Admin	
									Advanced Options
rivate Key 💿 Select	from Securden 🕓	Select from you	r computer						If you want the accounts being discovered fall under a specific account type classification and a folder, you select them an part of the advanced options. This will save some manua
elect from Securden									editing efforts after discovering the accounts.
earch Accounts		`	/						Randomize Passwords After Discovery
									You have the option to assign strong and unique passwords to
Supply privileged cre	dentials to fetch ad	ccounts							the accounts immediately after discovery. If you choose this option, Securden generates passwords based on the password policy specified and assigns them to the accounts on targe
Use remote login cred	entials as specified abov	ve							devices.
uthentication Type	sudo 🔾 root								
assword									
		\$							
Advanced Options									
ccount Type			-						
inux		~							
Fedora									
Linux									
			[Add Folder]						
Ubuntu									
	after accounts discovery	y @							

2. If you want to add all the imported accounts to a folder, you can select one from the drop down.

hivete key Select from sour computer there the counts account ype disalification and a follow, you select them part of the advanced options. This will assess them mare effine genome mare efficiency. If you shows them part of the advanced options. This will assess them mare efficiency on the advanced options. This will assess them mare efficiency on the advanced options. This will assess the mare efficiency of the advanced options. This will assess them mare efficiency on the advanced options. This will assess them mare efficiency of the advanced options. This will assess them to the advanced options. This will assess them to the advanced options. This will assess the to the advanced options. This will assess the to the advanced option. This will assess them to the accounts immediately after discovery. When the option to advanced option. This will assess them to the accounts on the advanced option. This will assess them to the accounts on the advanced option. This will assess them to the accounts on the advanced option. This will assess them to the accounts on the advanced option. This will assign them to the accounts on the device. When the option to advanced on the passes policy specified and assigns them to the accounts on the device. If it is it is it is it is advanced option. This will assign the to the accounts on the device. If it is it	Dashboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin	
<pre>wink exp @ Select from your computer wink e</pre>									Advanced Options
<pre>start inscribe: each Accounts</pre>	rivate Key 💿 Select from Securd	en 🔘 Select from	n your computer						If you want the accounts being discovered fall under a speci- account type classification and a folder, you select them in
upply privileged oredentials to fetch accounts a use remote login oredentials as specified above a use remote login oredentials as specified above a use remote login oredentials as specified above a use remote login condentials as specified above a use remote	elect from Securden								part of the advanced options. This will save some manu editing efforts after discovering the accounts.
upply privileged credentials to fetch accounts You have the option to assign strong and unaque parameters upply privileged credentials to fetch accounts Vou have the option to assign strong and unaque parameters upply privileged credentials to fetch accounts voit have the option to assign strong and unaque parameters upply privileged credentials to fetch accounts voit have the option to assign strong and unaque parameters upply privileged credentials to fetch accounts voit have the option to assign strong and unaque parameters voit the remote login credentials as specified above voit the remote login credentials as the remote login credentials as specified above voit the remote login credentials as specified above voit the remote login credentials as the remote login credentials as specified above voit the remote login credentials as the remote login credentials as the remote login credentials as the remote login cremote login credentials as	earch Accounts		~						Dendemine Deserveds After Discourse
a use remote login credentials as specified above Q search									You have the option to assign strong and unique passwords
Use remote login credentials as specified above devices. uthertication Type in add Q. Search									the accounts immediately after discovery. If you choose th option, Securiden generates passwords based on the password policy specified and assigns them to the accounts on targ
Q. Search Image: Search <td>Use remote login credentials as sp</td> <td>ecified above</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Use remote login credentials as sp	ecified above							
 Intrastructure API Text Local Accounts Open Connection 	uthentication Type 💿 sudo	🔿 root							
	Q, Search								
API Test Local Accounts O open Connection	🗅 -None-								
Lecal Accounts Open Connection Open Connection	▼ IT Infrastructure								
Open Connection Open Connection	API Test								
Cs Rfue	Local Accounts								
	Open Connection								
lone- V [Adsfold]	D Dfinor								
	None-		 [Add Folder] 						
			✓ [Add Folder]						
	Back Discover Cano	el							

If you want to create a new folder for this purpose, you need to click on **[Add Folder]**.

3. You have the option to assign strong and unique passwords to the accounts immediately after discovery.

Privileged Acc	count Manager									Q ← Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
									Advanced	l Options	*
Private Key 💿 S	elect from Securden	 Select from 	your computer						account type	e accounts being discovered fall under a speci classification and a folder, you select them advanced options. This will save some man	as
Select from Securden										s after discovering the accounts.	
Search Accounts			~						Randomize	Passwords After Discovery	
	d credentials to fet								You have the the accounts option, Secure	option to assign strong and unique passwords immediately after discovery. If you choose ti den generates passwords based on the passwo ed and assigns them to the accounts on tarr	his ord
Use remote logir	n credentials as specifie	d above							devices.		
Authentication Type	● sudo 🔿 i	root									
Password			ø								
			din .								
Advanced Optior	ns										
Account Type											
Linux			~								
Folder in Securden			V [Add Folder]								
-none-			 pida Poidelj 								
Randomize passw	vords after accounts dis	scovery (j)									
Back Disc	Cancel										

If you choose this option, Securden generates passwords based on the password policy specified and assigns them to the accounts on target devices.

Note: The credentials used for authentication will not be randomized if this option is chosen.

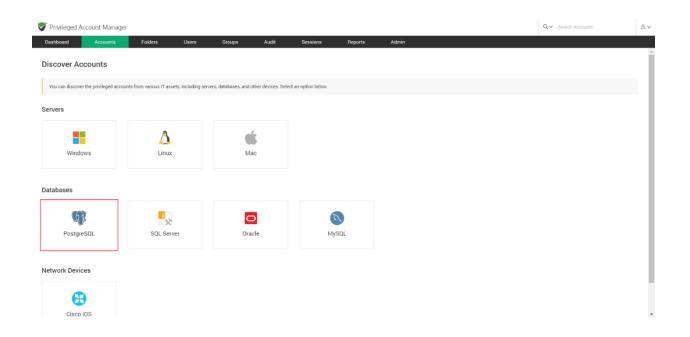
Once all the required parameters have been specified, click **Discover**. The process takes a few minutes to complete. Once it is completed, complete results with a list of accounts and their status is displayed. You can view how many accounts were successfully imported.

Discover and Import Accounts from Databases

Accounts stored in databases such as SQL servers, MySQL, PostgreSQL, and Oracle databases can be discovered and imported into Securden easily. You need to provide valid credentials to connect with the databases and import accounts into the PAM repository.

Discover Privileged Accounts from PostgreSQL Databases

The PostgreSQL instances and associated accounts can be discovered and added to Securden. To discover accounts in PostgreSQL databases, navigate to **Accounts >> Add >> Discover Accounts >> PostgreSQL**.



Discovering accounts from databases is a two-step process.

Step 1: Connecting to the Database

Before Securden discovers accounts from databases, it needs to establish connectivity between the database server and the Securden server. To establish connectivity, you need to furnish details such as the IP address and database port of the database instance.

IP Address: You can either run the discovery on a single computer or on a series of computers.

1) To discover from a single device, select **Single Computer**. You need to specify the IP address (or) the hostname of the required computer.

Privileged Ac	ccount Manager									Q ✓ Search Accounts
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
Discover Po	ostgreSQL Ad	ccounts								< Back
You can discove too.	er the PostgreSQL inst	tances, the accounts there	of and add then	n to Securden. You	I can specify the II	P range to discover th	ne instances falling un	der that range. Alternativ	vely, you enter a single instance	Help ? You need to supply administrator credentials so as to enable Securden to scan the instances and fetch the accounts.
	onnectivity Detail	Single Computer								If each instance in the IP range specified has different administrator credentials, you need to repeat discovery separately for each instance. In such senarios, importing accounts from CSV would be a better option than accounts discovery.
Hostname/IP Address			I							
Database Port *			Default Data	abase						
SSL										
Connection timeout(in : 10	seconds) *									
Retry discovery	process again after	5 hours.								
Next Cano	cel									

 If you want to discover from a range of computers, select **Computers** in **IP Range**. You need to specify the start and end of the IP range.

💙 Privileged Ac	count Manager										Q ← Search Accounts	&∨
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover Po	ostgreSQL Ac	counts										< Back
too.			of and add them	to Securden. You	can specify the IP	range to discover th	e instances falling un	der that range. Altern	atively, you enter a single instan	You Sec	elp ? need to supply administrator crede urden to scan the instances and fetch	h the accounts.
Discover 💿 Con	nnectivity Details	O Single Computer								adn sep acc	ninistrator credentials, you need arately for each instance. In such ounts from CSV would be a better covery.	to repeat discovery scenarios, importing
Start IP *			End IP									
Database Port *			Default Data	base								
SSL												
Connection timeout(in s 10	econds) *											
Retry discovery	process again after 5	hours.										
Next Cano	el											

Note: If each instance in the IP range specified has different administrator credentials, you need to repeat the discovery separately for each instance. In such scenarios, importing accounts from CSV would be a better option than accounts discovery.

Database Port: You need to specify the port over which the database is serving.

Privileged Ac	count Manager										Q ← Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover Po	ostgreSQL Ad	counts										< Back
You can discover too.	r the PostgreSQL inst	ances, the accounts the	eof and add the	m to Securden. You	i can specify the IF	⁹ range to discover the	instances falling und	er that range. Alternati	vely, you enter a single instance	Securder	to supply administrator credential to scan the instances and fetch the instance in the IP range specif	accounts.
	mnectivity Detail	Single Computer								administr separatel	ator credentials, you need to y for each instance. In such sci from CSV would be a better opti	repeat discovery enarios, importing
Start IP *			End IP									
Database Port *			Default Dat	abase								
SSL			_									
Connection timeout(in s 10	reconds) *											
Retry discovery p	process again after	5 hours.										
Next Cano	el											

Default Database: You need to specify the default database of the MySQL instance running on your device(s).

💙 Privileged Account Manager							Q ← Search Accounts	8~
Dashboard Accounts F	olders Users	Groups Audi	it Sessions	Reports	Admin			
Discover PostgreSQL Accou	nts							< Back
too. Step 1: Enter Connectivity Details	he accounts thereof and add th Single Computer	em to Securden. You can specif	fy the IP range to discover t	the instances falling und	der that range. Alternatively, you enter a single instr	You r Secur If ea admir separ accou	eed to supply administrator credentials so den to scan the instances and fetch the accor- ch instance in the IP range specified histrator credentials, you need to repe- ately for each instance. In such scenaris ints from CSV would be a better option th	unts. las different lt discovery ls, importing
Start P*	End IP	atahase		1		disco	very.	
SSL Connection timeout(in seconds) * 10	hours.			J				

Enforce SSL: You can enforce SSL while establishing a connection between Securden and PostgreSQL server. If you choose to enable this, you need to ensure that SSL connections are enabled in your PostgreSQL server. Additionally, you need to install a certified CA signed certificate in Securden. If the certificate of the domain controller is not signed by a certified CA, you need to import all the certificates that are present in the respective root certificate chain - that is the certificate of the domain controller and all the intermediate certificates if any.

💙 Privileged Account Manager						Q ← Search Accounts	8~
Dashboard Accounts Folders	Users Groups	Audit Sessions	Reports	Admin			
Discover PostgreSQL Accounts							< Back
You can discover the PostgreSQL instances, the accounts thereo too. Step 1: Enter Connectivity Details Discover Computers in IP range Single Computer Start IP *	f and add them to Securden. You o	an specify the IP range to discove	r the instances falling unde	er that range. Alternatively, you enter a single instan	You r Secur If ea admir separ	eed to supply administrator credentials so a den to scan the instances and fetch the accou- ch instance in the IP range specified ha istrator credentials, you need to repeat ately for each instance. In such scenarios nts from CSV would be a better option tha	nts. as different discovery , importing
Database Port * SSL Connection timeout(in seconds) * Retry discovery process again after 5 hours. Next Cancel	Default Database						

Connection timeout: You need to specify the maximum time in seconds for which Securden will try to establish connectivity with your database instance.

💙 Privileged Ac	count Manager										Q ← Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover Po	stgreSQL Ac	counts										< Back
too.	r the PostgreSQL instances of the Postgre		ereof and add the	m to Securden. You	I can specify the IP	range to discover the	instances falling un	ler that range. Alternat	ively, you enter a single instance	e You Secu If es	p ? need to supply administrator credentia rden to scan the instances and fetch th sch instance in the IP range speci- nistrator credentials, you need to	e accounts. ified has different
	mputers in IP range	 Single Compute 	er							sepa	rately for each instance. In such so unts from CSV would be a better opt	cenarios, importing
Start IP *			End IP									
Database Port *			Default Da	tabase								
SSL												
Connection timeout(in s 10	econds) *											
Retry discovery p	process again after 5	hours.										
Next Cano	el											

Retry discovery process again: If Securden is unable to connect to any or all the specified devices at present, you can schedule a re-attempt at discovery. You need to specify the time in hours after which the discovery process is attempted again.

Privileged Account Manager						Q.∽ Search Accounts	8~
Dashboard Accounts Folders	Users Groups	Audit Sessions	Reports	Admin			
Discover PostgreSQL Accounts							< Back
You can discover the PostgreSQL instances, the accounts thereo too. Step 1: Enter Connectivity Details Discover © Computers in IP range Single Computer Start IP+	f and add them to Securden. You c End IP	an specify the IP range to discover th	he instances falling unde	r that range. Alternatively, you enter a single instance	Securo If eac admin separa	eed to supply administrator credentials so len to scan the instances and fetch the accord h instance in the IP range specified h istrator credentials, you need to repea- tely for each instance. In such scenario ts from CSV would be a better option th	unts. as different t discovery s, importing
Database Port * SSL Connection timeout(in seconds) * 10 Retry discovery process again after 5 hours Next Cancel	Default Database						

Step 2: Supply Administrator Credentials and Discover

Before Securden can discover accounts from the MySQL database, it needs to go through authentication. You need to specify the **username** and **password** of the administrator account.

Privileged /	Account Manage	r									Q ← Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover F	PostgreSQL A	accounts										< Back
You need to si Account Name * admin Password *		edentials so as to enable	Securden to scan	the databases and f	etch the accounts.					Securden If each administr separatel accounts discovery Advance If you was account the part of the editing eff Random You have the accound option. Security	to supply administrator credentials so as to scan the instances and fetch the accour instance in the IP range specified has ator credentials, you need to repeat y for each instance. In such scenarios, from CSV would be a better option thar	nts. s different discovery importing n accounts r a specific ct them as me manual esswords to choose this e password

Note: If each instance in the IP range specified has different administrator credentials, you need to repeat the discovery separately for each instance. In such scenarios, importing accounts from CSV would be a better option than accounts discovery.

Advanced Options

You can populate all the discovered accounts under a specific account type and/or a specific folder.

💙 Privileged Ad	count Manager										Q ~ Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover Po	ostgreSQL Ad	counts										< Back
Step 2: Sup	ply Credentia	lls									to supply administrator credentials so as to scan the instances and fetch the accoun	
You need to sup Account Name* admin	oly administrator cred	entials so as to enabl	e Securden to scan	the databases and f	fetch the accounts.					administr separatel	instance in the IP range specified has ator credentials, you need to repeat y for each instance. In such scenarios, from CSV would be a better option than	discovery importing
Password *	15		\$							If you wa account part of t	ced Options In the accounts being discovered fall under type classification and a folder, you selec the advanced options. This will save som forts after discovering the accounts.	t them as
Back Dis	Cancel									You have the accor option, Se	ize Passwords After Discovery the option to assign strong and unique par ints immediately after discovery. If you cl curden generates passwords based on the ecified and assigns them to the accounts	hoose this password

Account Type: You can select one of the compatible account types from the drop-down.

Privileged Account Manag	ger								Q ← Search Accounts	1
Dashboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Discover PostgreSQL	Accounts									< Bac
Step 2: Supply Creden	ntials								eed to supply administrator credentials so den to scan the instances and fetch the accc	
You need to supply administrator	credentials so as to enab	le Securden to scar	n the databases and	fetch the accounts.				If eac	ch instance in the IP range specified I histrator credentials, you need to repe	nas differ
admin								separa	ately for each instance. In such scenario ints from CSV would be a better option th	s, import
								Adva	anced Options	
assword *		\$						accou part o	want the accounts being discovered fall un int type classification and a folder, you se of the advanced options. This will save s g efforts after discovering the accounts.	lect them
Advanced Options								Rand	omize Passwords After Discovery	
iccount Type PostgreSQL		~						the ac option policy	ave the option to assign strong and unique (ccounts immediately after discovery. If you h, Securden generates passwords based on to specified and assigns them to the accou	choose he passw
								device	2S.	

If you want to assign a different account type from the available list of types, you need to navigate to **Admin >> Account Management >> Account Types** and add a new custom account type or modify an existing custom account type according to your needs.

Folder: You can open the drop-down menu and select the required folder from the folder tree.

Privileged Acc	ount Manager									Q 🗸 Search Accounts	٤√
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Discover Po	stgreSQL A	ccounts									< Back
Step 2: Supp	ly Credentia	lls								ed to supply administrator credentials so to scan the instances and fetch the acc	
You need to suppl Account Name* admin	ly administrator crec	lentials so as to enable	Securden to scan	n the databases and l	fetch the accounts.				adminis separat accoun discove	instance in the IP range specified trator credentials, you need to rep very for each instance. In such scenar ts from CSV would be a better option 1 ry. nced Options	eat discovery ios, importing
Password *			Ф						accoun part of	ant the accounts being discovered fall ut t type classification and a folder, you s the advanced options. This will save efforts after discovering the accounts.	elect them as
Advanced Option Account Type PostgreSQL Folder in Securden	15		ř						You have the according option,	mize Passwords After Discovery te the option to assign strong and unique ounts immediately after discovery. If yo securden generates passwords based on specified and assigns them to the accou-	u choose this the password
-None-	ords after accounts	discovery 🚯	[Add Folder]								
Back Disc	Cancel										

If you want to create a new folder, you can click **[Add Folder]** and create a new one.

💙 Privileged Account Manag	er									Q ← Search Accounts	8~
Dashboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover PostgreSQL	Accounts										< Back
Step 2: Supply Credent	ials									to supply administrator credential to scan the instances and fetch the	
You need to supply administrator of Account Name * admin	edentials so as to enable	e Securden to scan	the databases and f	etch the accounts.					administra separately	instance in the IP range specifi ator credentials, you need to y for each instance. In such sor from CSV would be a better opti	repeat discovery marios, importing
Password *		Ф							If you war account t part of th	ced Options In the accounts being discovered fa ype classification and a folder, you he advanced options. This will sa	u select them as we some manual
Advanced Options Account Type PostgreSQL		~							Randomi You have the accou	iorts after discovering the accounts ize Passwords After Discovery the option to assign strong and uni nints immediately after discovery. It curden generates passwords based curified and assigns them to the a	que passwords to f you choose this d on the password
-None-	ta diagonary - O	V [Add Folder]									
Back Discover Cane											

Randomize Passwords After Discovery

Immediately after the discovery, you can assign secure and unique passwords to the accounts. If you select this option, Securden creates passwords for the accounts on the target devices according to the specified password rules.

💙 Privileged Account Manager							Q ← Search Accounts	8~
Dashboard Accounts Folders	Users	Groups Audit	Sessions	Reports	Admin			
Discover PostgreSQL Accounts								< Back
Step 2: Supply Credentials							2 ed to supply administrator credentia n to scan the instances and fetch the	
You need to supply administrator credentials so as to en	able Securden to scan the	e databases and fetch the acc	ounts.			If each	instance in the IP range specific trator credentials, you need to	fied has different
Account Name * admin						separat	ely for each instance. In such sc ts from CSV would be a better opt	enarios, importing
Password *							nced Options	
Passwoid -	Ø					accoun part of	rant the accounts being discovered fit t type classification and a folder, ye the advanced options. This will s efforts after discovering the accounts	ou select them as ave some manual
Advanced Options						Rando	mize Passwords After Discovery	
Account Type PostgreSQL	~					the according	e the option to assign strong and un ounts immediately after discovery. Securden generates passwords base specified and assigns them to the a	If you choose this d on the password
Folder in Securden -None-	← [Add Folder]					uevices		
Randomize passwords after accounts discovery								
Back Discover Cancel								

Once you have selected your preferences, click **Discover**.

💙 Privileged Account Mar	ager									Q ← Search Accounts	8~
Dashboard Account	s Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover PostgreSC	L Accounts										< Back
Step 2: Supply Crede	entials									to supply administrator credentials to scan the instances and fetch the a	
You need to supply administrat Account Name * admin	or credentials so as to enabl	e Securden to scan	the databases and f	etch the accounts.					administra separately	nstance in the IP range specific tor credentials, you need to r for each instance. In such scen from CSV would be a better optio	repeat discovery narios, importing
Password *		ø							If you war account t part of th	ed Options t the accounts being discovered fall ype classification and a folder, you e advanced options. This will say orts after discovering the accounts.	u select them as
Advanced Options Account Type PostgreSQL		~							You have the accou option, Se	ze Passwords After Discovery the option to assign strong and unio the immediately after discovery. If curden generates passwords based cified and assigns them to the ac	you choose this on the password
-None-		Y [Add Folder]									
Randomize passwords after ac											
Back Discover	Cancel										

The process takes a few minutes to complete. Once it is completed, complete results with a list of accounts and their status is displayed. You can view how many accounts were successfully imported.

Discover Privileged Accounts from SQL Servers

You can connect to SQL server instances and discover the accounts present in each instance. To discover accounts in SQL servers, navigate to **Accounts** >> Add >> Discover Accounts >> SQL Servers.

💙 Privileged Account Mar	nager							Q ← Search Accounts	8~
Dashboard Account	s Folders	Users Groups	Audit	Sessions	Reports	Admin			
Discover Accounts									Î
You can discover the privileged	accounts from various IT assets	, including servers, database	, and other devices. Selec	ct an option below.					- 1
Servers									
	Δ		é						
Windows	Linux		Мас						
Databases									_
B			0	R,					_
PostgreSQL	SQL Server		Oracle	MySQI	L				
Network Devices									
Network Devices									- 1
8									
Cisco IOS									*

Discovering accounts from SQL servers is a two-step process

Step 1: Connect to the SQL Servers

Before Securden can discover privileged accounts from your SQL server, it needs to establish connectivity with the SQL servers. You need to specify certain attributes for Securden to connect with the server.

IP address/Hostname

You have the option to connect to multiple instances of SQL servers and discover accounts in them. You have two options to achieve this.

1) You can select **Multiple Instances** and specify the individual IP addresses of the instances in comma-separated form.

💱 Privileged Account Manager		Q ← Search Accounts	8~
Dashboard Accounts Folders Users Groups Audit Sessions Reports Admin			
Discover SQL Server Accounts			< Back
Discover SQL Server Accounts Via can discover the SQL server instances the accounts thereof and add them to Securden. You can specify the IP range to discover the instances falling under that range. Atternatively, you enter specific names of the instances or a single instance to. Step 1: Enter Connectivity Details Discover () Computers in IP range () Multiple instance () Single instance Default Database 0	Securden If each i administra separately	to supply administrator credentials so as to to scan the instances and fetch the accounts instance in the IP appectified has used credentials, you need to repeat or for each instance. In such scenarios, in from GSV would be a better option than a	to enable s. different discovery mporting
Next Cancel			

 If the instances have a series of consecutive IP addresses, you can select **Computers in IP range** and specify the start and end of the IP range.

Vivileged Ac	count Manager										Q ∽ Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover S	QL Server Acc	counts										< Back
the instances or Step 1: Enter Co	r the SQL server insta a single instance too. onnectivity Details mputers in IP range				can specify the IP	range to discover the	instances falling und	er that range. Alternatively.	, you enter specific names of	Securden If each administr separatel	to supply administrator credentials so a to scan the instances and fetch the accou- instance in the IP range specified ha ator credentials, you need to repeat y for each instance. In such scenarios from CSV would be a better option tha	nts. s different discovery importing
Start IP *			End IP									
Database Port *	seconds) *		Default Data	base								
Retry discovery Next Cano	process again after 5 cel	hours.										

3) Alternatively, you have the option to connect to a single SQL server instance and discover the accounts therein. Select **Single Instance** and specify the IP address or the hostname of the device and proceed.

Privileged Account Manager							Q ← Search Accounts	8~
Dashboard Accounts Folders	Jsers Groups	Audit	Sessions	Reports	Admin			
Discover SQL Server Accounts								< Back
You can discover the SQL server instances, the accounts thereof the instances or a single instance too.	and add them to Securden. Y	'ou can specify the IP rai	nge to discover the i	nstances falling unde	r that range. Alternatively, you enter	specific names of	Help ? You need to supply administrator credentials so Securden to scan the instances and fetch the acco	
Step 1: Enter Connectivity Details Discover O Computers in IP range O Multiple Instances	Single Instance						If each instance in the IP range specified h administrator credentials, you need to repeat separately for each instance. In such scenario accounts from CSV would be a better option the discovery.	at discovery is, importing
Hostname/IP Address *								
Database Port	Default Database							
SSL								
Connection timeout(in seconds) * 10								
Retry discovery process again after 5 hours.								
Next Cancel								

Database Port: You need to specify the port over which the database is serving.

💙 Privileged Account Manager							Q ← Search Accounts	8~
Dashboard Accounts Folders	Users Groups	Audit	Sessions	Reports	Admin			
Discover SQL Server Accounts								< Back
You can discover the SQL server instances, the accounts there the instances or a single instance too. Step 1: Enter Connectivity Details Discover Computers in IP range Discover		can specify the IP rang	ge to discover the ir	nstances falling under	that range. Alternatively, you enter specific name	yo St If ac se ac	lep is un need to supply administrator credentials so a cruciden to scan the instances and fetch the accou- each instance in the IP range specified ha ministrator credentials, you need to repeat parately for each instance. In suparately for each scanarios counts from CSV would be a better option tha scorery.	nts. s different discovery importing
Start IP *	End IP					u.	scorety.	
Database Port *	Default Database							
SSL Connection timeout(in seconds) * 10								
Retry discovery process again after 5 hours. Next Cancel								

Default Database: You need to specify the default database of the MySQL instance running on your device(s).

Privileged Ac	count Manager									Q ← Search Accounts	ź
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
	r the SQL server insta enter specific names o				u can specify the	IP range to discover	the instances falling	under that range.		supply administrator credentials so a scan the instances and fetch the accord	
	nnectivity Details	O Multiple Instan	ces 💿 Sini	gle Instance					administrato separately f	tance in the IP range specified h r credentialis, you need to repea or each instance. In such scenario m CSV would be a better option th	at discovery s, importing
atabase Port			Default Da	tabase							
SSL ssc sinterestion sinterestion s	econds) *										
Retry discovery p	orocess again after 5	hours.									

Enforce SSL: You can enforce SSL while establishing a connection between Securden and SQL server. If you choose to enable this, you need to ensure that SSL connections are enabled in your SQL server. Additionally, you need to install a certified CA signed certificate in Securden. If the certificate of the domain controller is not signed by a certified CA, you need to import all the certificates that are present in the respective root certificate chain - that is the certificate of the domain controller and all the intermediate certificates if any.

Dashboard Accounts Folders Uters Groups Audit Sessions Reports Admin	
Discover SQL Server Accounts	< Back
	inistrator credentials so as to enable ances and fetch the accounts.
Step 1: Enter Connectivity Details administrator credental separately for each inst	e IP range specified has different s, you need to repeat discovery tance. In such scenarios, importing Id be a better option than accounts
Start IP * End IP	
Database Port * Default Database	
Connection timeout(in seconds) * 10	
Retry discovery process again after s hours.	
Text Cancel	

Connection timeout: You need to specify the maximum time in seconds for which Securden will try to establish connectivity with your database instance.

Vrivileged Ac	count Manager										Q ← Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover SC	L Server Acc	counts										< Back
the instances or a	a single instance too.			m to Securden. You gle Instance	u can specify the IF	P range to discover th	e instances falling und	er that range. Alternativel	y, you enter specific names of	Yo Se If adi sej aci	alp 20 a need to supply administrator credentials urden to scan the instances and fetch the each instance in the IP range specifi ministrator credentials, you need to in antely for each instance. In such sce ounts from CSV would be a better optic covery.	accounts. ed has different repeat discovery narios, importing
Start IP *			End IP									
Database Port *			Default Da	atabase								
SSL Connection timeout(in st 10	econds) *											
Retry discovery p Next Cance		5 hours.										

Retry discovery process again: If Securden is unable to connect to any or all the specified devices at present, you can schedule a re-attempt at

discovery. You need to specify the time in hours after which the discovery process is attempted again.

Privileged Account Manager					Q∽ Search Accounts &~
Dashboard Accounts Folders U	Jsers Groups	Audit Sessions	Reports	Admin	
Discover SQL Server Accounts					< Back
You can discover the SOL server instances, the accounts thereof of the instances or a single instance too.	and add them to Securden. You can	n specify the IP range to discov	er the instances falling unde	r that range. Alternatively, you enter specific names of	Help Won need to supply administrator ordentials so as to enable Securden to scan the instances and fetch the accounts. If each instance in the IP range specified has different administrator credentials, you need to repeat discovery
Discover Computers in IP range Multiple instances	O Single Instance				administration economicals you need to repet tracorely separately for each instance. In such sciencials, importing accounts from CSV would be a better option than accounts discovery.
Start IP *	End IP				
Database Port *	Default Database				
SSL SSL					
Connection timeout(in seconds) * 10					
Retry discovery process again after 5 hours. Next Cancel					

Step 2: Supply Administrator Credentials and Discover

Before Securden can discover accounts from the MySQL database, it needs to go through authentication. You need to specify the **username** and **password** of the administrator account.

🍼 Privileged Ac	count Manager										Q ← Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover SC	L Server Ac	counts										< Back
Account Name * admin Peasword * 	ly administrator crec	dentials so as to enable s	Securden to scan	the databases and t	etch the accounts					Securden If each administr separatel accounts discovery Advanu If you war account If part of ti editing ef Random You have the according the according the according the according the according the according the according the according the according the according the according to the according	to supply administrator credentials so at to scan the instances and fetch the accour instance in the IP range specified ha ator credentials, you need to repeat y for each instance. In such scenarios, from CSV would be a better option that	nts. s different discovery importing n accounts r a specific ct them as me manual resswords to choose this e password

Note: If each instance in the IP range specified has different administrator credentials, you need to repeat the discovery separately for each instance. In such scenarios, importing accounts from CSV would be a better option than accounts discovery.

Advanced Options

You can populate all the discovered accounts under a specific account type and/or a specific folder.

💙 Privilegeo	d Account Mana	ger									Q ← Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover	SQL Server	Accounts										< Back
	ptions	tials credentials so as to enabl	● Securden to scan	the databases and f	etch the accounts.					Securden If each i administra- separately accounts discovery. Advance If you war account the part of the editing eff Randomi You have the accounts option. Security Nor have the accounts option. Security accounts Nor have the accounts option. Security Nor have the accounts option. Security Nor have the accounts Nor have the accounts option. Security Nor have Nor have N	to supply administrator credentials a to scan the instances and fetch the ac stance in the LP range specified for credentials, you need to rep for each instance. In such scene from CSV would be a better option eed Options It the accounts being discovered fail of per classification and a folder, you is advanced options. This will save oris after discovering the accounts. zz Passwords After Discovery the option to assign strong and unigo its immediately after discovery the curder generates passwords based o cified and assigns them to the acco	counts. has different eat discovery rios, importing than accounts inder a specific select them as some manual e passwords to su choose this the password

Account Type: You can select one of the compatible account types from the drop-down. If you want to assign a different account type from the available list of types, you need to navigate to Admin >> Account Management >> Account Types and add a new custom account type or modify an existing custom account type according to your needs.

Folder: You can open the drop-down menu and select the required folder from the folder tree.

💙 Privileged Account Manager								Q ← Search Accounts	8~
Dashboard Accounts Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Discover SQL Server Accounts									< Back
Step 2: Supply Credentials								? d to supply administrator credentials n to scan the instances and fetch the i	
You need to supply administrator credentials so as to ena	ble Securden to scan	the databases and	fetch the accounts				If each	instance in the IP range specifie	ed has different
Account Name * admin							separate	trator credentials, you need to r ly for each instance. In such scer s from CSV would be a better optio Y.	narios, importing
Q. Search		7					Advar	iced Options	
Search -None- Tinfrastructure							account part of	ant the accounts being discovered fai type classification and a folder, you the advanced options. This will sai efforts after discovering the accounts.	select them as
🗅 API Test							Randor	nize Passwords After Discovery	
Local Accounts							You have	e the option to assign strong and unio ounts immediately after discovery. If	
Open Connection							option, s	Securden generates passwords based pecified and assigns them to the ac	on the password
Co Ofizer							devices.	pecifica and assigns them to the ac	counto on target
-None-	Y [Add Folder]								
Randomize passwords after accounts discovery (
Back Discover Cancel									

If you want to create a new folder, you can click [Add Folder] and create a new one.

💙 Privileged Account Manager						Q V Search Accounts	8~
Dashboard Accounts Folder	s Users	Groups Audit	Sessions	Reports	Admin		
Discover SQL Server Accounts						< Ba	ck
Step 2: Supply Credentials						Help ? You need to supply administrator credentials so as to ena Securden to scan the instances and fetch the accounts.	ble
You need to supply administrator credentials so as	to enable Securden to scan t	the databases and fetch the acco	unts.			If each instance in the IP range specified has differ administrator credentials, you need to repeat discow	
Account Name * admin						separately for each instance. In such scenarios, import accounts from CSV would be a better option than accound discovery.	ing
						Advanced Options	
Password *	¢					If you want the accounts being discovered fail under a spec account type classification and a folder, you select them part of the advanced options. This will save some man editing efforts after discovering the accounts.	as
Advanced Options						Randomize Passwords After Discovery	
Account Type SQL Server	~					You have the option to assign strong and unique passwords the accounts immediately after discovery. If you choose t option, Securden generates passwords based on the passw policy specified and assigns them to the accounts on tan devices.	his ord
Folder in Securden None	 [Add Folder] 						
Randomize passwords after accounts discovery (Back Discover Cancel	Ð						

Randomize Passwords After Discovery

Immediately after the discovery, you can assign secure and unique passwords to the accounts. If you select this option, Securden creates passwords for the accounts on the target devices according to the password rules you specify.

💙 Privileged A	ccount Manager										Q ← Search Accounts	& ∨
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover S	QL Server Ac	counts										< Back
Step 2: Sup	oply Credenti	als									supply administrator credential scan the instances and fetch the	
You need to su	pply administrator cre	dentials so as to enabl	e Securden to scan	the databases and	fetch the accounts	ı.					tance in the IP range specif or credentials, you need to	
Account Name * admin										separately f	or each instance. In such sce om CSV would be a better opti	narios, importing
										Advance	d Options	
Password *			ø							account typ part of the	the accounts being discovered fa e classification and a folder, yo advanced options. This will sa ts after discovering the accounts.	u select them as we some manual
Advanced Opti	ons									Bandomize	Passwords After Discovery	
Account Type										You have the	e option to assign strong and uni	
SQL Server			~							option, Secu policy speci	s immediately after discovery. I rden generates passwords bases fied and assigns them to the a	on the password
Folder in Securden			V [Add Folder]							devices.		
-Hone-			- prodivoranj									
Randomize pas	swords after accounts	discovery (j)										
Back	iscover Cance	I										

Once you have selected your preferences, click **Discover**.

💙 Privileged Account Manager						Q ← Search Accounts	8~
Dashboard Accounts Folders	Users Groups	Audit Sessions	Reports	Admin			
Discover SQL Server Accounts							< Back
Step 2: Supply Credentials						to supply administrator credentials so as to to scan the instances and fetch the accounts.	
You need to supply administrator credentials so as to enable Sec Account Name * admin	curden to scan the databases and fet	tch the accounts.			administra separately	nstance in the IP range specified has of itor credentials, you need to repeat di r for each instance. In such scenarios, in from CSV would be a better option than a	iscovery nporting
Passwood *					If you war account t part of th	ed Options t the accounts being discovered fall under a ype classification and a folder, you select t e advanced options. This will save some orts after discovering the accounts.	them as
Advanced Options Account Type SQL Server Foder in Security					You have the accou option, Se	ze Passwords After Discovery the option to assign strong and unique passw tha immediately after discovery. If you cho curden generates passwords based on the p cified and assigns them to the accounts o	ose this assword
-None-	[Add Folder]						
Back Discover Cancel							

The process takes a few minutes to complete. Once it is completed, complete results with a list of accounts and their status are displayed. You can view how many accounts were successfully imported.

Discover Privileged Accounts from Oracle Databases

You can connect to your Oracle instances and discover accounts present in them. To discover accounts in Oracle databases, navigate to **Accounts >> Add >> Discover Accounts >> Oracle Database**.

Privileged Account I	Manager								$Q \sim$ Search Accounts	2~
Dashboard Acc	ounts Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Discover Account	5									- 1
You can discover the privile	ged accounts from various IT as	sets, including serve	ers, databases, and other	devices. Select	t an option below.					- 1
Servers										_
3617615										
	Δ		Ś							
Windows	Linux	x	Мас							
Databases										
63		1	0		5	X				
PostgreSQL	SQL Ser		Oracle		My:	SQL				
Network Devices										
8										
Cisco IOS										-

Discovering accounts from databases is a two-step process.

Step 1: Connecting to the Oracle Database

Before Securden discovers accounts from databases, it needs to establish connectivity between the database server and the Securden server. To establish connectivity, you need to furnish details such as the IP address and database port of the database instance.

IP Address: You can either run the discovery on a single computer or on a series of computers.

1) To discover from a single device, select **Single Computer**. You need to specify the IP address (or) the hostname of the required computer.

Privileged Account Mar	ager									Q ← Search Accounts	8~
Dashboard Account	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover Oracle Ace	ounts										< Back
	tances, the accounts thereof aload and install Oracle client betails (@) Single Comput	library. Refer to this	section for details.		o discover the instan	ces falling under that i	ange. Alternatively,	you enter a single instance too.	/ 2 5 8 8 8 8 8	telp Construction of the standard stand	he accounts. cified has different o repeat discovery scenarios, importing

2) If you want to discover from a range of computers, select **Computersin IP Range**. You need to specify the start and end of the IP range.

Privileged Acc	ount Manager										Q ← Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover Ora	acle Accoun	ts										< Back
Pre-requisite: You Step 1: Enter Cor	need to download a	and install Oracle client	library. Refer to th	is section for details		to discover the instar	nces failing under that i	range. Alternatively, you r	enter a single instance too.	Securdi If each adminis separat	ed to supply administrator credentials en to scan the instances and fetch the instance in the IP range specifi strator credentials, you need to i ely for each instance. In such sce ts from CSV would be a better optic	accounts. ed has different repeat discovery marios, importing
Database Port * Connection Invecution set 10 Retry discovery p Next Cance	rocess again after	5 hours.										

SID: The unique name that you use to identify your Oracle instance.

💙 Privileged Account Manager							Q ← Search Accounts	٤~
Dashboard Accounts Folders	Users Groups	Audit S	Sessions Repo	ts Admin				
Discover Oracle Accounts								< Back
You can discover the Oracle instances, the accounts thereof an Pre-requisite: You need to download and install Oracle clent lib Step 1: Enter Connectivity Details Discover O computers in IP range ® single Computer Hostname/IP Address *			over the instances falling ur	der that range. Alternatively	, you enter a single instance too.	Securd If each adminis separat	ed to supply administrator credentials in to scan the instances and fetch the a instance in the IP range specifie trator credentials, you need to r ely for each instance. In such scer is from CSV would be a better optio	accounts. ed has different repeat discovery narios, importing
SID Database Port * Connection timeout(in seconds) * 10 Retry discovery process again after s hours. Next Cancel	Service Name							

Service Name: The alias given to your database for remote connection purposes.

Privileged Account Manager						Q ← Search Accounts	8~
Dashboard Accounts Folders Discover Oracle Accounts	Users Groups	Audit Sessions	Reports	Admin			< Back
You can discover the Oracle instances, the accounts ther Pre-requisite: You need to download and instail Oracle of Step 1: Enter Connectivity Details Discover O computers in IP range Single Con	ient library. Refer to this section for de		nstances falling under that	t range. Alternatively, you enter a single instance t	You r Secur If ea admir separ	eed to supply administrator credentials so a den to scan the instances and fetch the accou- ch instance in the IP range specified ha isistrator credentials, you need to repeat ately for each instance. In such scenarios nts from CSV would be a better option tha	ints. as different t discovery s, importing
Hostname/IP Address * SID Database Port *	Service Name						
Connection timeout(in seconds) * 10 Retry discovery process again after s hours. Next Cancel							

Database Port: You need to specify the port over which the database is serving.

💙 Privileged A	count Manager										Q \checkmark Search Accounts	2~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover O	racle Accoun	ts										< Back
		the accounts thereof				to discover the instar	nces falling under that	ange. Alternatively, you	enter a single instance too.	Secure If eac	eed to supply administrator credenti len to scan the instances and fetch th h instance in the IP range spec	he accounts. cified has different
	onnectivity Detail	 Single Comput 	er							separa	strator credentials, you need to tely for each instance. In such s its from CSV would be a better op ery.	cenarios, importing
Hostname/IP Addre	SS *											
SID			Service Na	ime								
Database Port *												
Connection timeout(in 10	seconds) *											
Retry discovery Next Can	process again after 5 cel	hours.										

Connection timeout: You need to specify the maximum time in seconds for which Securden will try to establish connectivity with your database instance.

Dearboard Accounts Folders Groups Audit Seaions Reports Admin Cleared <pcleared< p=""> Cleared <pcleared< p=""> <</pcleared<></pcleared<>	Discover Oracle Accounts Vou can discover the Oracle instances, the accounts thereof and add them to Securden. You can specify the IP range to discover the instances falling under that range. Alternatively you enter a single instance to complete instances and fact the accounts. Freereguistic: You need to download and instal Oracle client library. Refer to this section for details. Step 1: Enter Connectivity Details Discover Computers in IP range Computers Comput		Vivileged Ac	count Manager											Q ← Search Accounts		8~
Not can discover the Dracke instances, the accounts thereof and add them to Securden. You can specify the IP range to discover the instances failing under that range. Alternatively, you enter a single instance to the support administrator credentials so as to enable the range specified has different diministrator credentials. You need to download and install Oracle client library. Refer to this section for details. Carper Connectivity Details	Not can discover the Oracle instances, the accounts thereof and add them to Securden. You can specify the IP range to discover the instances falling under that range. Alternatively, you enter a single instance to. Pre-requisite: You need to download and instal Oracle client library. Refer to this section for details. Step 1: Enter Connectivity Details Discover O computers in IP range Single Computers Hostname/IP Address*		Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin						
No can use other in each can be able that in the to secure in the construction for details. Pre-requisite: You need to download and install Oracle client library. Refer to this section for details. Step 1: Enter Connectivity Details Discover © Computers in IP range Single Computers Bit Service Name Database Port*	To can be observe the observe the observe the instances and add when to section for details. Vou need to download and instances and fetch this section for details. Step 1: Enter Connectivity Details Discover () Computers in IP range () Single Computer Hostname/IP Address *		Discover Or	racle Account	S											< 1	Back
Retry discovery process again after s hours. Next Cancel	Connection timeou(in seconds) * 10 Petry discovery process again after s hours.	[You can discover Pre-requisite: Yo Step 1: Enter Co Discover O Cor Hostname/IP Addres SID Database Port * Connection timeout(n = 10 Retry discovery (r the Oracle instances, uu need to download ar onnectivity Details mputers in IP range ss *	the accounts thereof and d install Oracle client lib ;	rary. Refer to this s	section for details.	cify the IP range to	b discover the instanc	ses falling under that r	ange. Alternatively	x you enter a single instance too	Ya Se If ad se ac	ou need ecurden t each ii dministra eparately ccounts	to supply administrator credentials to scan the instances and fetch the a nstance in the IP range specifie itor credentials, you need to re for each instance. In such scen	so as to e ccounts. d has diff peat disc arios, impo	enable ferent covery orting

Retry discovery process again: If Securden is unable to connect to any or all the specified devices at present, you can schedule a re-attempt at discovery. You need to specify the time in hours after which the discovery process is attempted again.

💙 Privilege	d Account Manager										$\mathbf{Q} \mathbf{arphi}$ Search Accounts	2~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discove	r Oracle Accoun	its										< Back
	scover the Oracle instances					to discover the instan	ces falling under that i	ange. Alternatively, you enter a	a single instance too.	Securde If each	d to supply administrator credentials to scan the instances and fetch the a instance in the IP range specifie	ccounts. d has different
	er Connectivity Detai	 Single Compute 	a							separate	rator credentials, you need to re ly for each instance. In such scen s from CSV would be a better option y.	arios, importing
Hostname/IP	Address *											
SID			Service Nar	me								
Database Por	•											
10	out(in seconds) *	5 hours.										
Next	Cancel											

Step 2: Supply Administrator Credentials and Discover

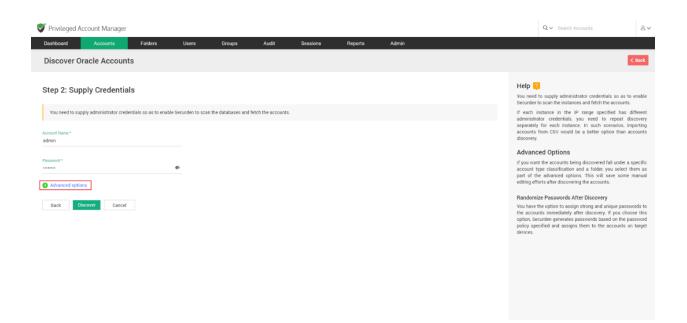
Before Securden can discover accounts from the Oracle database, it needs to go through authentication. You need to specify the **username** and **password** of the administrator account.

V Privileged Account Manager		Q ← Search Accounts	8~
Dashboard Accounts Folders Users Groups Audit Sessions Reports Admin			
Discover Oracle Accounts		٢	Back
Step 2: Supply Credentials You need to supply administrator credentials so as to enable Securden to scan the databases and fetch the accounts.	Securden 1 If each i	to supply administrator credentials so as to o to scan the instances and fetch the accounts. Instance in the IP range specified has di	ifferent
Account Name * admin Password *	separately accounts discovery.	Into credentials. you need to repeat dis r for each instance. In such scenarios, imp from CSV would be a better option than acc red Options at the accounts being discovered fall under a s	porting counts
Advanced options	account ty part of th editing effe	ype classification and a folder, you select the advanced options. This will save some n orts after discovering the accounts.	iem as
Back Ditcover Cancel	You have t the accou option, Se	ze Passwords After Discovery the option to assign strong and unique passwor this inmediately after discovery. If you choos curden generates passwords based on the pas crified and assigns them to the accounts on	se this ssword

Note: If each instance in the IP range specified has different administrator credentials, you need to repeat the discovery separately for each instance. In such scenarios, importing accounts from CSV would be a better option than accounts discovery.

Advanced Options

You can populate all the discovered accounts under a specific account type and/or a specific folder.



Account Type: You can select one of the compatible account types from the drop-down.

ashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin	
iscover Or	acle Accour	nts							l.
tep 2: Supj	ply Credenti	als							Help 👔 You need to supply administrator credentials so as t
You need to supp	bly administrator cre	dentials so as to enabl	le Securden to scar	n the databases and	fetch the accounts	š.			Securden to scan the instances and fetch the accounts If each instance in the IP range specified has administrator credentials, you need to repeat d
ount Name * min									separately for each instance. In such scenarios, in accounts from CSV would be a better option than a discovery.
									Advanced Options
sword *			ø						If you want the accounts being discovered fall under a account type classification and a folder, you select part of the advanced options. This will save some editing efforts after discovering the accounts.
lvanced Optio	ns								Randomize Passwords After Discovery
acle			~						You have the option to assign strong and unique pass the accounts immediately after discovery. If you cho option, Securden generates passwords based on the p policy specified and assigns them to the accounts devices.
one			V [Add Folder]						
Randomize pass	words after account:	s discovery (j)							

If you want to assign a different account type from the available list of types, you need to navigate to **Admin >> Account Management >>**

Account Types and add a new custom account type or modify an existing custom account type according to your needs.

Folder: You can open the drop-down menu and select the required folder from the folder tree.

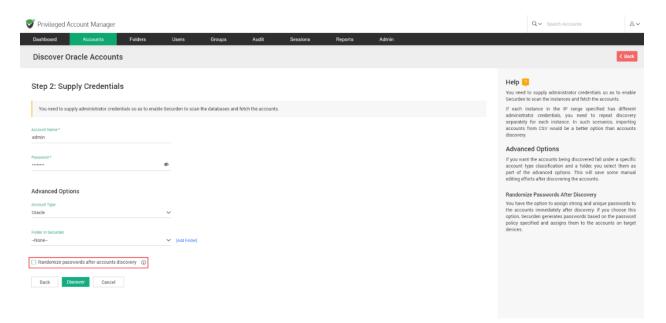
💎 Privileged Ad	count Manager	T									Q ← Search Accounts		8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin					
Discover O	racle Accour	nts										< 1	Back
Step 2: Sup	ply Credenti	als									to supply administrator creden to scan the instances and fetch		nable
You need to sup Account Name* admin	ply administrator cre	dentials so as to enable :	Securden to scan t	the databases and fe	etch the accounts.					administr separatel	instance in the IP range spo ator credentials, you need t y for each instance. In such from CSV would be a better o	to repeat disco scenarios, impo	overy
Password *			Ð							If you wa account part of t	ced Options In the accounts being discovere type classification and a folder he advanced options. This will forts after discovering the accou	you select the save some ma	em as
Advanced Optic Account Type Oracle Folder in Securden –None–	ns		V [Add Folder]							Random You have the accor option, Se	ize Passwords After Discove the option to assign strong and unts immediately after discover curden generates passwords bu ecified and assigns them to the	ry unique passwor y. If you choose ased on the pass	e this sword
Randomize pass	words after accounts												
outil Di	Conce	•											

If you want to create a new folder, you can click **[Add Folder]** and create a new one.

💙 Privileged Account Manager			Q ✓ Search Accounts & ✓
Dashboard Accounts Folders Users Gro	oups Audit Sessions	Reports Admin	
Discover Oracle Accounts			< Back
Step 2: Supply Credentials			Help Vou need to supply administrator credentials so as to enable Securitien to scan the instances and fetch the accounts.
You need to supply administrator credentials so as to enable Securden to scan the data Account Name * admin	ibases and fetch the accounts.		If each instance in the IP range specified has different administrator credentials, you need to repart discovery separately for each instance. In such coerarios, importing accounts from CSV would be a better option than accounts discovery.
Passeod *			Advanced Options If you want the accounts being discovered fail under a specific account type classification and a folder, you select them as part of the advanced options. This will save some manual editing reforts after discovering the accounts.
Advanced Options Account Type Oracle Foldor in Security			Comparison of the accounts of the accounts of the accounts of the accounts immediately after discovery. If you choose this option, Securider generates passwords added on the password policy specified and assigns them to the accounts on target devices.
-None- V [Add Folder]			
Randomize passwords after accounts discovery			

Randomize Passwords After Discovery

Immediately after the discovery, you can assign secure and unique passwords to the accounts. If you select this option, Securden creates passwords for the accounts on the target devices according to the password rules you specify.



Once you have selected your preferences, click **Discover**.

Privileged Acc	ount Manager									Qv	Search Accounts	٤~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover Ora	icle Account	ts										< Back
Step 2: Supp	-	IS entials so as to enable	e Securden to scan	the databases and f	letch the accounts.					Securden to scan If each instance administrator cre	ly administrator credentials so a the instances and fetch the accou in the IP range specified ha edentials, you need to repeat	nts. is different discovery
Account Name * admin Password *			¢							accounts from C discovery. Advanced Op If you want the ac account type clar part of the adva	ich instance. In such scenarios SV would be a better option that options counts being discovered fall under stification and a folder, you selenced options. This will save so re discovering the accounts.	r a specific ct them as
Advanced Option: Account Type Oracle Folder in Securden –None–	S		✓ [Add Folder]							You have the opti- the accounts imm option, Securden	swords After Discovery on to assign strong and unique pa nediately after discovery. If you generates passwords based on th nd assigns them to the account	choose this e password
Randomize passwo Back Disco		discovery (j)										

The process takes a few minutes to complete. Once it is completed, complete results with a list of accounts and their status is displayed. You can view how many accounts were successfully imported.

Discovering Privileged Accounts from MySQL Databases

The MySQL instances and associated accounts can be discovered and added to Securden. To discover accounts in MySQL instances, navigate to

Accounts >> Add >> Discover Accounts >> MySQL.

Privileged Account Mana							0.4.5	arch Accounts	ξ
-	-						Q V 50	arch Accounts	
shboard Accounts	Folders	Users Groups	Audit	Sessions	Reports	Admin			
scover Accounts									
ou can discover the privileged a	ccounts from various IT assets,	, including servers, databases, an	d other devices. Select	t an option below.					
rvers									
	Δ		ŕ						
Windows	Linux		Mac						
abases									
63	••• ••								
	¥		0	47					
PostgreSQL	SQL Server	0	racle	MySQL	-				
work Devices									
E									
Cisco IOS									

Prerequisite: Before connecting to a MySQL connector and discovering accounts, you need to install MySQL Connector. Follow the steps below.

- 1. Ensure that the Securden server is connected to the internet.
- 2. Run a command prompt as Administrator.
- Open a command prompt as Administrator and navigate to Securden-Installation-Folder\bin in the prompt.
- 4. Run 'installMySQLConnector.bat'.

5. From services.msc, restart the Securden PAM Service.

Discovering accounts from databases is a two-step process.

Step 1: Connecting to the Database

Before Securden discovers accounts from databases, it needs to establish connectivity between the database server and the Securden server. To establish connectivity, you need to furnish details such as the IP address and database port of the database instance.

IP Address: You can either run the discovery on a single computer or on a series of computers.

1) To discover from a single device, select **Single Computer**. You need to specify the IP address (or) the hostname of the required computer.

Privileged Acc	count Manager										Q ← Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover My	/SQL Accour	nts										< Back
		s, the accounts thereof a QL connector. <mark>Refer to th</mark>			pecify the IP range	e to discover the insta	nces falling under that	range. Alternatively, you enter a	a single instance too.	Securden to	o supply administrator credentials scan the instances and fetch the a stance in the IP range specifie	ccounts.
Step 1: Enter Col	nnectivity Detail	 Single Computer]							administrat separately	or credentials, you need to re for each instance. In such scen om CSV would be a better optior	arios, importing
Hostname/IP Addres	s *											
Database Port *			Default Dat	tabase								
Connection timeout(in se 10	econds) *											
Retry discovery p	rocess again after	5 hours.										
Next Cance	el											

2) If you want to discover from a range of computers, select **Computersin IP Range**. You need to specify the start and end of the IP range.

Privileged Acc	ount Manager										Q ← Search Accounts	گ×
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover My	SQL Accoun	its										< Back
Pre-requisite: You	need to install MySC	L connector. Refer to th	iis section for de		pecify the IP range	e to discover the instan	ces failing under that r	ange. Alternatively, yo	u enter a single instance too.	Secure If eac admin separa	ed to supply administrator creder en to scan the instances and fetch in instance in the IP range spi strator credentials, you need i tely for each instance. In such its from CSV would be a better of	the accounts. ecified has different to repeat discovery scenarios, importing
Start IP *			End IP									
Database Port *			Default Da	tabase								
Connection timeout(in se	conds) *											
Retry discovery p	rocess again after 5	hours.										
Next Cance	ł											

Database Port: You need to specify the port over which the database is serving.

💙 Privileged Account Ma	nager									Q∨ Search	Accounts	8~
Dashboard Accourt	ts Folders	Users	Groups	Audit	Sessions	Reports	Admin					
Discover MySQL A	ccounts											< Back
	tall MySQL connector. Refer to Details	o this section for det		pecify the IP range	e to discover the insta	nces falling under the	t range. Alternative	ly, you enter a single instance to	0. 	telp 2 ou need to supply admini ecurden to scan the instan each instance in the diministrator credentials, eparately for each instanc counts from CSV would iscovery.	IP range specified has you need to repeat nce. In such scenarios,	nts. s different discovery importing
Start IP *		End IP										
Database Port * Connection timeout(in seconds) * 10		Default Data	abase									
Retry discovery process agai Next Cancel	n after <u>5</u> hours.											

Default Database: You need to specify the default database of the MySQL instance running on your device(s).

Dashboard <mark>Accounts</mark> Folders Users Groups Audit Sessions Reports Admin	Y
Discover MySQL Accounts	< Back
You can discover the NySQL instances, the accounts thereof and add them to Securden. You can specify the IP range to discover the instances falling under that range. Alternatively, you enter a single instance to and point instance to a discover the instances and fells. Help Quite the securden to scatche instances and fells. Pre-requisite: You need to install MySQL connector. Refer to this section for details. In sech instances and fells. The arge specific instance the IP range specific ins	counts. has different leat discovery rios, importing
Start IP* End IP	
Default Database	
Connection timeout(n seconds) * 10	
Retry discovery process again after 5 hours.	
Next Cancel	

Connection timeout: You need to specify the maximum time in seconds for which Securden will try to establish connectivity with your database instance.

💙 Privileged Account Manager						Q ← Search Accounts	8×
Dashboard Accounts Folders	Us e rs Groups	Audit Session	s R e ports	Admin			
Discover MySQL Accounts							< Back
You can discover the MySQL instances, the accounts thereof an Pre-requisite: You need to install MySQL connector. Refer to this Step 1: Enter Connectivity Details Discover		pecify the IP range to discover th	e instances falling under tha	t range. Alternatively, you enter a single instance too.	Secur If ead admin separ	eed to supply administrator credentials so den to scan the instances and fetch the acc ch instance in the IP range specified istrator credentials, you need to repe ately for each instance. In such scenari nts from CSV would be a better option t	ounts. has different eat discovery ios, importing
Start IP *	End IP						
Database Port *	Default Database						
Connection timeout(in acconds) * 10 Retry discovery process again after <u>s</u> hours. Itext Cancel]						

Retry discovery process again: If Securden is unable to connect to any or all the specified devices at present, you can schedule a re-attempt at discovery. You need to specify the time in hours after which the discovery process is attempted again.

💙 Privileged Account Manager						Q.∽ Search Accounts	8~
Dashboard Accounts Folders	Users Groups	Audit Sessions	Reports	Admin			
Discover MySQL Accounts							< Back
You can discover the MySQL instances, the accounts thereof and Pre-requisite: You need to install MySQL connector. Refer to this Step 1: Enter Connectivity Details Discover © Computers in IP range Single Computers		fy the IP range to discover the instar	nces falling under that ra	nge. Alternatively, you enter a single instance too.	Securd If eac admini separa	ed to supply administrator credentials so len to scan the instances and fetch the acco h instance in the IP range specified h strator credentials, you need to repe- tely for each instance. In such scenario ts from CSV would be a better option th	unts. nas different at discovery ns, importing
Start IP *	End IP						
Database Port *	Default Database						
Connection timeout(in seconds) * 10 Retry discovery process again after s hours. Retr Cancel							

Step 2: Supply Administrator Credentials and Discover

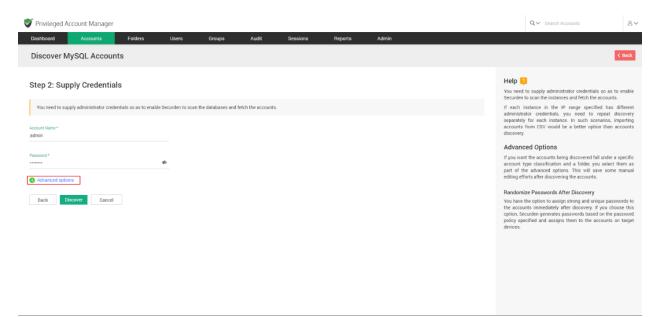
Before Securden can discover accounts from the MySQL database, it needs to go through authentication. You need to specify the **username** and **password** of the administrator account.

💙 Privileged Account Manage	r									Q ← Search Accounts	8٧
Dashboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover MySQL Accor	ints										< Back
Step 2: Supply Credent Vou need to supply administrator or Account Name * admin Passend * Passend * Canced options Back Discover Cancel	ials cdentials so as to enable	Securden to scan	the databases and f	etch the accounts.					Securden 1 If each ii administra separately accounts discovery. Advance If you wan account to part of th editing eff Randomi You have 1 the accou	In supply administrator credentials so to acan the mutances and fetch the accountance in the UP range specified h for credentials, you need to reper for each instance, in such seemain from CSV would be a better option the edOptions the accounts being discovered fall unit per classification and a folder, you a per classification and a folder, you a ottos after discovering the accounts. Exe Passwords Atter Discovers the option Saing Strater discovers if you curred engements assumed and a sciency are unique per tast searced activities greatering searced based on the officient of and a saigns them to the account clied and assigns them to the account of the other section of the section of the other section of t	unts. as different it discovery is, importing an accounts der a specific leet them as ome manual passwords to choose this he password

Note: If each instance in the IP range specified has different administrator credentials, you need to repeat discovery separately for each instance. In such scenarios, importing accounts from CSV would be a better option than accounts discovery.

Advanced Options

You can populate all the discovered accounts under a specific account type and/or a specific folder.



Account Type: You can select one of the compatible account types from the drop-down. If you want to assign a different account type from the available list of types, you need to navigate to Admin >> Account Management
> Account Types and add a new custom account type or modify an existing custom account type according to your needs.

💞 Privileged Account Manager	Q ✓ Search Accounts & & ✓
Dashboard Accounts Folders Users Groups Audit Sessions Reports Admin	
Discover MySQL Accounts	< Back
Step 2: Supply Credentials	Help You need to supply administrator credentials so as to enable Securden to scan the instances and fetch the accounts.
You need to supply administrator credentials so as to enable Securden to scan the databases and fetch the accounts. Account Name * admin	If each instance in the IP range specified has different administrator credentials, you need to repeat discovery separately for each instance. In such scenarios, importing accounts from CSV would be a better option than accounts discovery.
Passwold*	Advanced Options If you want the accounts being discovered fail under a specific account type classification and a folder, you select them as part of the advanced options. This will save some manual editing efforts after discovering the accounts.
Advanced Options Account Type My/SQL Foder in Security	Randomize Passwords After Discovery You have the option to assign atteng and unique passwords to the accounts immediately after discovery If you choose this option, Securing generates passwords based on the password policy specified and assigns them to the accounts on target devices.
-Itone- V [Add Folcer]	
Back Discover Cancel	

Folder: You can open the drop-down menu and select the required folder from the folder tree.

Privileged Account Manager							Q ← Search Accounts	8~
Dashboard Accounts Folders	Users Groups	Audit	Sessions	Reports	Admin			
Discover MySQL Accounts								< Back
Step 2: Supply Credentials	curden to scan the databases a	nd fetch the accounts				Securder If each administ	d to supply administrator credentials so n to scan the instances and fetch the acc instance in the IP range specified rator credentials, you need to rep vg for each instance. In such scenar	ounts. has different eat discovery
Account Name * admin	-					discover	s from CSV would be a better option ty.	than accounts
Q. Search □ -None- ✓ □ If infrastructure						If you wa account part of	ant the accounts being discovered fall ur type classification and a folder, you s the advanced options. This will save fforts after discovering the accounts.	elect them as
API Test Local Accounts Open Connection Online						You have the acco option, S	nize Passwords After Discovery e the option to assign strong and unique bunts immediately after discovery. If yo becurden generates passwords based on pecified and assigns them to the account	u choose this the password
-None-	/ [Add Folder]							
Back Discover Cancel								

If you want to create a new folder, you can click [Add Folder] and create a new one.

💙 Privileged Account Manage	9L								$\mathbf{Q} \mathbf{arphi}$ Search Accounts	8~
Dashboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Discover MySQL Accor	unts									< Back
Step 2: Supply Credent	ials								I to supply administrator credentials to scan the instances and fetch the a	
You need to supply administrator cr	edentials so as to enabl	e Securden to scan	the databases and f	etch the accounts.					instance in the IP range specifie rator credentials, you need to re	
Account Name * admin								separate	ly for each instance. In such scen a from CSV would be a better option	arios, importing
								Advan	ced Options	
Password *		¢						account part of 1	int the accounts being discovered fall type classification and a folder, you the advanced options. This will sav fforts after discovering the accounts.	select them as
Advanced Options								Random	nize Passwords After Discovery	
Account Type MySQL		~						the acco option, S	the option to assign strong and uniq unts immediately after discovery. If ecurden generates passwords based ecified and assigns them to the acc	you choose this on the password
Folder in Securden -None-		V [Add Folder]						devices.		
Randomize passwords after accoun Back Discover Canc										

Randomize Passwords After Discovery

Immediately following discovery, you have the choice to assign the accounts secure and unique passwords. If you select this option, Securden creates passwords for the accounts on the target devices according to the password rules you specify.

💙 Privileged Account Manager							Q V Search Accounts	8~
Dashboard Accounts Folders	Users Groups	Audit	Sessions	Reports	Admin			
Discover MySQL Accounts								< Back
Step 2: Supply Credentials							to supply administrator credentials s to scan the instances and fetch the ac	
You need to supply administrator credentials so as to enable	e Securden to scan the database	s and fetch the accounts	a.				instance in the IP range specified ator credentials, you need to rep	
- Account Name * admin						separatel	y for each instance. In such scena from CSV would be a better option	rios, importing
Password *							ced Options	
Password *	Ф					account t part of t	In the accounts being discovered fall uses of the accounts being discovered fall uses advanced options. This will save forts after discovering the accounts.	select them as
Advanced Options						Random	ize Passwords After Discovery	
Account Type MySQL Folder in Securden	~					You have the accou option, Se	the option to assign strong and uniqu unts immediately after discovery. If y iccurden generates passwords based or ecified and assigns them to the acco	ou choose this n the password
-None-	Y [Add Folder]							
Randomize passwords after accounts discovery								

Once you have selected your preferences, click **Discover**.

💎 Privileged Account Manager								Q ← Search Accounts	8~
Dashboard Accounts Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Discover MySQL Accounts									< Back
Step 2: Supply Credentials								to supply administrator credentials so to scan the instances and fetch the acc	
You need to supply administrator credentials so as to enable	Securden to scan t	he databases and fe	etch the accounts.				If each	instance in the IP range specified ator credentials, you need to repe	has different
Account Name * admin								y for each instance. In such scenari from CSV would be a better option to	
Password *								ced Options	
* 302479700 ******	ø						account part of t	nt the accounts being discovered fall un type classification and a folder, you so he advanced options. This will save a forts after discovering the accounts.	elect them as
Advanced Options								ize Passwords After Discovery	
Account Type MySQL	~						the acco	the option to assign strong and unique unts immediately after discovery. If you	choose this
								ecurden generates passwords based on ecified and assigns them to the accou	
Folder in Securden None	V [Add Folder]								
Randomize passwords after accounts discovery ①									
Back Discover Cancel									

The process takes a few minutes to complete. Once it is completed, complete results with a list of accounts, their status is displayed. You can view how many accounts were successfully imported.

Discovering and Importing accounts from Cisco IOS Devices

You can connect with network devices and discover the accounts present in them. To discover accounts from Cisco IOS devices, navigate to **Accounts** >> **Add** >> **Discover Accounts** >> **Cisco IOS Devices**.

hboard Accounts	Folders Users				
u can discover the privileged account	ts from various IT assets, including serve	Groups Audit	Sessions Reports	Admin	
rers					
	۸	é			
Windows	Linux	Mac			
Windows	LINGA	mac			
bases					
(f)		O			
PostgreSQL	SQL Server	Oracle	MySQL		
1 obigico de	odf och o	ondore	injoq2		
vork Devices					
53					
_					
Cisco IOS					

Discovering accounts from network devices is a two-step process.

Step 1: Connecting to the Network Devices

For Securden to establish connectivity, you need to specify the IP addresses of the target network devices. You have the option to discover devices from a single device or from a set of devices in an IP range. If you choose **Single Device**, you need to specify the **Hostname/IP address** of the target network device.

🧭 Privileged Account Manager	Q~ Search Accounts &
Dashboard Accounts Folders Users Groups Audit Sessions Reports Admin	
Discover Cisco IOS Accounts	< Back
You can discover the Cisco IDS devices in your environment and add them to Securden. Securden uses SSH for discovery and hence port 22 should remain open in the target devices. You can discover the device that fall under an IP range or a single device. All local accounts in the devices being discovered are fetched into Securden.	You need to supply administrator credentials so as to enable Securden to scan the machines and fetch the accounts.
Step 1: Enter Connectivity Details Discover O Devices in IP range Single Device	If each machine in the IP range specified has different administrator credentials, you need to repeat discovery separately for each device. In such scenarios, importing accounts from CSV would be a better option than accounts discovery.
Hodmane/IP Address *	Discover through unix connector
Connection timestation seconda) * 10	If the devices you want to discover belong to a different subnet, you can try discovering them through unic connectors. You can specify the unix connector here and discovery will happen through that.
Retry discovery process again after 5 hours.	
Select gateway or via channel O Remote Gateway	
Select Unix Connector Search unix connector v D	
Next Cancel	

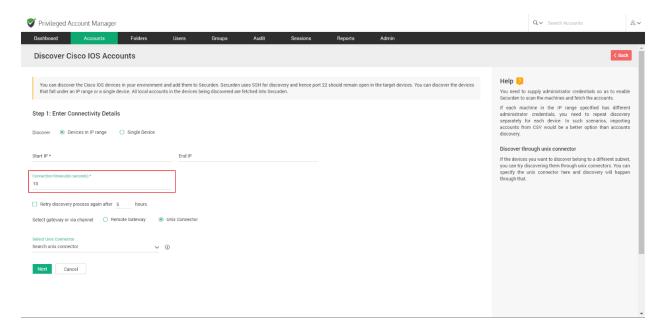
If you choose **Devices in IP Range**, you need to specify the **IP Range** of the target devices. i.e., You need to specify the **Start IP** and **End IP** of the range of devices to be scanned.

S Privileged Account Manager	Q 🗸 Search Accounts	8~
Dashboard Accounts Folders Users Groups Audit Sessions Reports Admin		
Discover Cisco IOS Accounts	< Back	Î
You can discover the Cisco IOS devices in your environment and add them to Becurden. Securden uses SBH for discovery and hence port 22 should remain open in the target devices. You can discover the devices that fall under an IP range or a single device. All local accounts in the devices being discovered are fetched into Becurden.	Help You need to supply administrator credentials so as to enable Securden to scan the machines and fetch the accounts. If each machine in the iP range specified has different administrator credentials, you need to repeat discovery	
Discover	separately for each device. In such scenarios, importing accounts from CSV would be a better option than accounts discovery.	
Start IP * End IP Convection timeou(is seconds) *	Discover through unix connector If the devices you want to discover belong to a different subnet, you can try discovering them through unix connectors. You can specify the unix connector here and discovery will happen through that.	
10 C Retry discovery process again after 5 hours.		
Select gateway or via channel 🚫 Remote Gateway 💿 Unix Connector		
Select Unix Connector Search unix connector V D		
Next Cancel		

Once the IP addresses of the devices have been specified, you need to provide the following details.

Connectivity Timeout

The maximum time in seconds Securden can attempt to establish connectivity with the devices before terminating the process.



Time delay for subsequent attempts

If connectivity to one or more devices cannot be established at present, Securden can attempt to connect with the devices at a later time. You need to specify the time (in hours) after which the attempt to connect should be made.

🧳 Privileged Account Manager	Q v Search Accounts & ८v
Dashboard Accounts Folders Users Groups Audit Sessions Reports Admin	
Discover Cisco IOS Accounts	< Back
You can discover the Cisco IOS devices in your environment and add them to Securden. Securden uses SSH for discovery and hence port 22 should remain open in the target devices. You can discover the devices that fail under an IP range or a single device. All local accounts in the devices being discovered are fetched into Securden.	Help You need to supply administrator credentials so as to enable Securitor to scan the machines and fetch the accounts.
Step 1: Enter Connectivity Details Discover Devices in IP range Single Device	If each machine in the IP range specified has different administrator credentials, you need to repeat discovery separately for each device. In such scenarios, importing accounts from CSV would be a better option than accounts discovery.
Start IP * End IP Connection timeout(in seconds) *	Discover through unix connector If the devices you want to discover belong to a different subnet, you can try discovering them through unix connectors. You can specify the unix connector here and discovery will happen through that.
10 Retry discovery process again after 5 hours. Select gateway or via channel O Remote Gateway (in Unix Connector)	
Select Unix connector V O	
Next Cancel	

Discovering through Remote Gateway

If the devices reside in a different network than the Securden server, you can route the connection through a remote gateway. You can select the appropriate remote gateway from the drop-down and the discovery will happen through the selected gateway. If no suitable gateway is available, navigate to **Admin >> Remote Sessions and Recordings >> Remote Gateway** and add the required gateway.

Privileged Account Manager						Q 🗸 Search Accounts
Dashboard Accounts Folders Use Discover Cisco IOS Accounts	rs Groups	Audit Sessio	ns Reports	Admin		< Back
You can discover the Clisco 105 devices in your environment and add that fall under an IP range or a single device. All local accounts in the Step 1: Enter Connectivity Details			ice port 22 should remain oper	in the target devices. You can di	scover the devices	Help 2 You need to supply administrator credentials so as to enable Securden to scan the machines and fetch the accounts. If each machine in the IP range specified has differen administrator credentials, you need to repeat discover separately for each device. In such scenarios, importin
Discover Devices in IP range Single Device Start IP *	ind IP					separately for each order, in such sections, important accounts from SV would be a better option than account discovery. Discover through unix connector If the devices you want to discover belong to a different subnet you can try discovering them through unix connectors. You can
Connection timeout(in seconds) * 10 Retry discovery process again after 5 hours.						specify the unix connector here and discovery will happen through that.
Select gateway or via channel Remote Gateway Unix Co Select Remote Gateway Search remote gateway	onnector					
Next Cancel						

Discovering through a Unix Connector

If the devices you want to discover belong to a different subnet, you can try discovering them through Unix connectors. You can select a Unix connector from the drop-down and discovery will happen through the selected connector.

Privileged A	ccount Manag	er									Q ← Search Accounts	<u>ع</u> ~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover Ci	sco IOS Ac	counts										< Back
	n IP range or a sing	le device. All local accour					22 should remain oper	in the target devices. Yi	ou can discover the devices	Securden to If each ma administrato separately	supply administrator credentials scan the machines and fetch the r chine in the IP range specific r credentias, you need to r for each device. In such scen	accounts. ed has different repeat discovery narios, importing
Discover 💿 De	vices in IP range	 Single Device 								discovery.	om CSV would be a better optio	n than accounts
Start IP * Connection timeout(in 10	seconds) *		End IP							If the device you can try o	rough unix connector s you want to discover belong to a liscovering them through unix con unix connector here and discor	nnectors. You can
Retry discovery Select gateway or v Select Unix Connector	ia channel (Unix Connector									
Search unix connect		~	Ð									

To add a new Unix connector, navigate to **Admin >> Remote Distributors >> Unix Connector**.

Once all the required details have been provided, click **Next**.

Step 2: Enter Credentials and Discover

Securden needs to authenticate the connection with devices to perform discovery. You can specify the root account credentials or sudo (Superuser Do) user credentials for this purpose. Securden will also use the administrator credentials for performing remote actions like password verification and reset apart from accounts discovery.

Note: If each machine in the specified IP range has different administrator credentials, you need to repeat discovery separately for each device. In such

scenarios, importing accounts from files would be a better option than account discovery.

You need to supply two sets of credentials, one for remote log in and the other to fetch the accounts and onboard it to Securden.

Supply remote login credentials

😻 Privileged Account Manager	Q∨ Search Accounts ≜∨
Dashboard Accounts Folders Users Groups Audit Sessions Reports Admin	
Discover Cisco IOS Accounts	< Back
Step 2: Enter Credentials and Discover	Help Help Help House to supply administrator credentials so as to enable Securden to scan the machines and refich the accounts. If each machine in the Promos socief the las different
supply effect the study or hood credentials to discover the accounts from the machines.	In calcul inscience in the in- target spectrum into the introduct administrator credentials, you need to repeat discovery separately for each device. In such scenarios, importing accounts from CSV would be a better option than accounts discovery.
Authentication type Plassword Pla Account Name * admin	Discover through unix connector If the devices you want to discover belong to a different subnet, you can try discovering them through unix connectors. You can specify the unix connector here and discovery will happen through that.
Password* 🔹	Advanced Options If you want the accounts being discovered fall under a specific account type classification and a folder, you select them as part of the advanced options. This will save some manual editing efforts after discovering the accounts.
Supply enable account credentials to fetch account Use remote login credentials as specified above, it has administrative privilege.	Randomize Passwords After Discovery You have the option to assign strong and unique passwords to the accounts immediately after discovery. If you choose this option, Securden generates passwords based on the password policy apecified and assigns them to the accounts on target
Account Hame *	devices.

You need to provide the credentials of an administrator user on the target device for Securden to login securely.

i. You need to specify the **Account Name** of the administrator account.

Strivileged Account Manager		Q ← Search Accounts	8~
Dashboard Accounts Folders Users Groups Audit Sessions Reports Admin			
Discover Cisco IOS Accounts			< Back
Step 2: Enter Credentials and Discover		supply administrator credentials so scan the machines and fetch the acco	
You need to supply administrator credentials so as to enable Securden to scan the machines and fetch the accounts. First, you should supply the credentials to remotely log in to the machine. Then you need to supply either the 'sudo' or 'cod' credentials to discover the accounts from the machines.	administrato separately	chine in the IP range specified h r credentials, you need to repea for each device. In such scenario m CSV would be a better option th	at discovery s, importing
Supply remote login credentials Authentication type PRI		rough unix connector	
Account Name * admin	you can try o	s you want to discover belong to a diff liscovering them through unix connect unix connector here and discovery	tors. You can
	Advance	d Options	
Password *	account typ part of the	he accounts being discovered fall unc e classification and a folder, you sel advanced options. This will save so is after discovering the accounts.	lect them as
Supply enable account credentials to fetch account	Randomize	Passwords After Discovery	
Use remote login credentials as specified above. It has administrative privilege.	the account option, Secu	e option to assign strong and unique p s immediately after discovery. If you rden generates passwords based on t fied and assigns them to the accour	choose this he password
Account Hame *	devices.		
······ •			
			*

ii. You can choose between a **Password** or a **Public Key Infrastructure** (**PKI file**) as the authentication type.

Privileged Account Ma	nager									Q ∽ Search Accounts	8
Dashboard Accourt	ts Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Discover Cisco IOS	Accounts										< Back
Step 2: Enter Crede	ntials and Discov	er								2 ed to supply administrator credentia n to scan the machines and fetch th	
You need to supply administ supply either the 'sudo' or 'roo				I fetch the account	ts. First, you should s	supply the credentials	to remotely log in to the	machine. Then you need to	adminis	machine in the IP range speci strator credentials, you need to ely for each device. In such sc	repeat discovery
Supply remote login cred	ntials								discove	·	tion than accounts
Authentication type O Pass Account Name * admin	word PKI								If the de you can	er through unix connector evices you want to discover belong to try discovering them through unix c the unix connector here and disc that.	onnectors. You can
Private Key	ecurden 🔿 Select fron	n your computer							If you w account part of	nced Options vant the accounts being discovered f t type classification and a folder, y the advanced options. This will s efforts after discovering the account:	ou select them as save some manual
Search Accounts		~							You hav	mize Passwords After Discovery	nique passwords to
Supply enable account cr			e.						option.	ounts immediately after discovery. Securden generates passwords base specified and assigns them to the a	ed on the password
Account Name *											

If you choose to authenticate using a PKI file, you have two options.

🦻 Privileged Account Manager		Q ← Search Accounts	8~
Dashboard Accounts Folders Users Groups Audit Sessions Reports Admin			
Discover Cisco IOS Accounts			< Back
Step 2: Enter Credentials and Discover		supply administrator credentials so as to scan the machines and fetch the accounts	
You need to supply administrator credentials so as to enable Securden to scan the machines and fetch the accounts. First, you should supply the credentials to remotely log in to the machine. Then you need to supply either the 'sudo' or 'root' credentials to discover the accounts from the machines.	administrator	chine in the IP range specified has r credentials, you need to repeat d or each device. In such scenarios, ir	iscovery
Supply remote login credentials		m CSV would be a better option than a	
Authentication type O Password @ PKI	If the devices	rough unix connector you want to discover belong to a different	
Account Name * admin		iscovering them through unix connectors. unix connector here and discovery will	
	Advanced	d Options	
Private Key Select from Securden Select f	account type part of the a	he accounts being discovered fall under a classification and a folder, you select t advanced options. This will save some s after discovering the accounts.	them as
seatch Actuality	Randomize	Passwords After Discovery	
Supply enable account credentials to fetch account	the accounts option, Secur	option to assign strong and unique pass immediately after discovery. If you cho den generates passwords based on the p ied and assigns them to the accounts o	ose this assword
Use remote login credentials as specified above, it has administrative privilege.	devices.		
Account Name *			

You can either

1) choose an SSH key stored in Securden from the drop-down menu.

(or)

2) upload the key file from your computer.

If you choose to upload a file from your computer, you need to provide the **passphrase** required to access the file.

😻 Privileged Account Manager	Q ✓ Search Accounts	8~
Dashboard Accounts Folders Users Groups Audit Sessions Reports Admin		
Discover Cisco IOS Accounts	K Bo	ack
Step 2: Enter Credentials and Discover	Help ? You need to supply administrator credentials so as to en Securden to scan the machines and fetch the accounts.	able
You need to supply administrator credentials so as to enable Securiden to scan the machines and fetch the accounts. First, you should supply the credentials to remotely log in to the machine. Then you need to supply either the 'sudo' or 'root' credentials to discover the accounts from the machines.	If each machine in the IP range specified has differ administrator credentials, you need to repeat disco separately for each device. In such scenarios, impor	very rting
Supply remote login credentials	accounts from CSV would be a better option than accound discovery.	unts
Authentication type 🔿 Password 🛞 PKI	If the devices you want to discover belong to a different sub you can try discovering them through unix connectors. You	
Account Hame * admin	specify the unix connector here and discovery will hap through that.	.pen
Private Key O Select from Securden	Advanced Options If you want the accounts being discovered fall under a spee account type classification and a folder, you select them part of the advanced options. This will save some man- editing efforts after discovering the accounts.	n as
Select from your computer * Passohrase		
Choose a file Browse Pathoprate *	Randomize Passwords After Discovery You have the option to assign strong and unique password the accounts immediately after discovery. If you choose option. Securden generates passwords based on the passw policy specified and assigns them to the accounts on tai devices.	this word
Use remote login credentials as specified above, it has administrative privilege. Account Name *		

Credentials for Fetching Accounts

Once the credentials for remote login are supplied, you need to specify the administrator credentials which are required to fetch the accounts present in the devices.

If the account used for remote login has administrative privilege, then you can use the same credentials for fetching accounts. To use the same credentials, select the checkbox named **Use remote login credentials as specified above**.

Ў Privileged Account Manager		Q ← Search Accounts	8~
Dashboard Accounts Folders Users Groups Audit Sessions Reports Admin			
Discover Cisco IOS Accounts		<	Back
Step 2: Enter Credentials and Discover		supply administrator credentials so as to e can the machines and fetch the accounts.	nable
You need to supply administrator credentials so as to enable Securden to scan the machines and fetch the accounts. First, you should supply the credentials to remotely log in to the machine. Then you need to supply either the 'sudd' or 'tord' credentials to discover the accounts from the machines.	administrator	chine in the IP range specified has dif credentials, you need to repeat disc or each device. In such scenarios, imp	covery
Supply remote login credentials	discovery.	m CSV would be a better option than acc	ounts
Authentication type		rough unix connector you want to discover belong to a different si	ubnet.
Account Hame * admin	you can try d	scovering them through unix connectors. You unix connector here and discovery will he	u can
	Advanced		
Password*	account type part of the	ne accounts being discovered fall under a sp classification and a folder, you select the advanced options. This will save some m s after discovering the accounts.	em as
Supply enable account credentials to fetch account	Randomize	Passwords After Discovery	
Use remote login credentials as specified above, it has administrative privilege.	the accounts option, Secur	option to assign strong and unique passwo immediately after discovery. If you choos den generates passwords based on the pas ied and assigns them to the accounts on i	e this sword
Account Name *	devices.	and any adapted them to the accounts of	and get
Password 🔶			

If you are using separate administrator credentials for fetching accounts, you need to specify the account name and password for the same.

Important:

When choosing to use the same remote login credentials for fetching accounts,

- 1. For **Password** based authentication, you need not specify the account name or the password.
- 2. For **PKI** authentication, you need to specify the password of the account alone.

Advanced Options

You have the options to add all the discovered accounts into a specific folder and assign them a specific account type. This will help mitigate the efforts required for classifying the accounts at a later time. 1. If you want to assign a specific account type to all the imported accounts, you can select the required account type from the drop down.

in	Accounts	Folders Use	s Groups	Audit	Sessions	Reports	Admin	
								through that.
								Advanced Options
sword *		ø						If you want the accounts being discovered fall under a sp account type classification and a folder, you select the part of the advanced options. This will save some m editing efforts after discovering the accounts.
ply enable acco	ount credentials t	o fetch account						Randomize Passwords After Discovery
Use remote login cre	edentials as specified	above, it has administrative	privilege.					You have the option to assign strong and unique passwo the accounts immediately after discovery. If you choos option, Securden generates passwords based on the pas policy specified and assigns them to the accounts on
ount Name *								devices.
word								
		ø						
anced Options								
unt Type								
o 10S		~						
r in Securden			d Folder]					

2. If you want to add all the imported accounts to a folder, you can select the required folder from the drop down.

ashboard Accounts	Folders U	sers Groups	Audit	Sessions	Reports	Admin		
Imin	Poldets	seis oloups	Audit	Sessions	neports	AUTIM	through that.	
							Advanced Options	
issword *	Ф						If you want the accounts being discovered fall un account type classification and a folder, you se part of the advanced options. This will save s editing efforts after discovering the accounts.	elect them a
upply enable account credent	ials to fetch account						Randomize Passwords After Discovery	
] Use remote login credentials as spe	cified above, it has administra	tive privilege.					You have the option to assign strong and unique the accounts immediately after discovery. If you option, Securden generates passwords based on 1 policy specified and assigns them to the account policy specified and assigns the policy pol	u choose th the passwo
count Name *							devices.	
isword								
	Ø							
vanced Options								
ount Type								
co IOS	~							
ter in Securden								
one-	~	[Add Folder]						
Randomize passwords after account	s discovery							
Back Discover Cance	el .							

If you want to create a new folder for this purpose, you need to click on **[Add Folder]**.

Dashboard		Folders	Users	Groups	Audit	Sessions	Reports	Admin			
dmin									through that.		
									Advance	d Options	
assword *			ø						account type part of the	he accounts being discovered fall under a e classification and a folder, you select ti advanced options. This will save some is after discovering the accounts.	hem
upply enable a	ccount credentia	als to fetch accou	unt						Randomize	Passwords After Discovery	
] Use remote logir	n credentials as spec	ified above, it has adr	ninistrative privileg	ŧ.					the accounts option, Secu policy specif	e option to assign strong and unique passw s immediately after discovery. If you choor rden generates passwords based on the pa fied and assigns them to the accounts or	se ti
count Name *									devices.		
sword											
			\$ D								
Ivanced Option	ns										
count Type											
co 10S			~								
lder in Securden											

3. You have the option to assign strong and unique passwords to the accounts at the time of discovery.

Privileged Ac	count Manager									Q ← Search Accounts	1
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
admin									through that.		
									Advance	d Options	
Password *		4	в						account type part of the	he accounts being discovered fall under i e classification and a folder, you select advanced options. This will save some s after discovering the accounts.	them as
Supply enable a	ccount credentia	is to fetch account	t						Randomize	Passwords After Discovery	
	in credentials as speci	fied above, it has admin	istrative privileg	e.					the accounts option, Secu	option to assign strong and unique pass s immediately after discovery. If you chi rden generates passwords based on the fied and assigns them to the accounts	password
ccount Name *									devices.		
assword											
			10								
dvanced Optio	ins										
ccount Type Cisco IOS			~								
older in Securden											
-None-			Y [Add Folder]								
] Randomize pass	words after accounts	discovery (j)									
Back Dis	cover Cancel										

If you choose this option, Securden generates passwords based on the password policy specified and assigns them to the accounts on target devices.

Note: The credentials used for authentication will not be randomized if this option is chosen.

Once all the required parameters have been specified, click **Discover**.

shboard Accounts	Folders Users	Groups	Audit	Sessions	Reports	Admin		
nin		10000000	0.000		100000000		through that.	
							Advanced Options	
sword *	ø						If you want the accounts being discovered fall under a account type classification and a folder, you select the part of the advanced options. This will area some editing efforts after discovering the accounts.	em as
pply enable account credentia	s to fetch account						Randomize Passwords After Discovery	
Use remote login credentials as speci	fied above, it has administrative privi	ege.					You have the option to assign strong and unique passw the accounts immediately after discovery. If you choo option. Securden generates passwords based on the pa policy specified and assigns them to the accounts or	se this ssword
ount Name *							devices.	
sword								
	Ф							
vanced Options								
ount Type								
co IOS	~							
ler in Securden								
ne-	Add Fold	21]						
Randomize passwords after accounts	discovery (j)							
Back Discover Cancel								

The process take a few minutes to complete. Once it is completed, complete results with a list of accounts, their status is displayed. You can view how many accounts were successfully imported.

Importing Accounts from CSV/XLSX Files

If you have account credentials stored in spreadsheets or a text file, you can use the **Import from Files** option to add them to Securden at one go. The input for importing accounts may be in the form of a standard CSV file or an XLSX file. Typically, each line in the file is added as an account and all the lines in the file should be consistent having the same number of fields.

Formatting your File for Importing

Importing Accounts is very flexible in Securden. You can simply import the file you have exported from your current repository into Securden and then map the matching fields. For example, in a XLSX file, each row is considered a separate account and each column is considered as an account attribute. Similarly in a CSV file, each row is considered a separate account and each attribute is demarcated by a delimiter.

To import accounts from a file, navigate to **Accounts >> Add >> Import** from File

💙 Privileged Ac	count Manager									Q ← Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
	unts From Fil										Â
This option helps	you add multiple acco	unts at one go. The i	nput for importing	accounts may be in	the form of a stan	dard CSV file or an XLS	SX file. Typically each	line in the file is added as an account and all the lin	nes in the file should be co	onsistent having the same number of fields.	
csv	\odot	XLSX	0								
Specify how eac	h entry in your CS	V has been sepa	arated								- 1
Delimiter Comma Separated w	lues		~								- 1
Classification (Work O Perso	onal									- 1
Select the type (nder which the ad	ccounts are to b	e imported								- 1
Account Type Windows Member			~								- 1
Choose a file			Browse								
Choose Parent Folder											*

- 1. You need to select the type of file you want to import from.
- 2. If you select the file type **CSV**, you need to specify the delimiter used to separate different account attributes.
- 3. You need to select an account type that is suitable for all the accounts stored in the file. If such an account type doesn't exist, you need to create a suitable account type for this purpose. Navigate to Admin >> Account Management >>Account Types to add a new account type.
- Once the account type is finalized, you need to browse and select the file you want to upload. Click **Browse** and select the required file on your computer and click **Open**.
- 5. You need to select a parent folder to which the imported accounts will be added.
- 6. Click **Next**.

In the second step of the import, we provide the option to map the columns (attributes) in the input file to attributes in Securden.

Mapping

Mapping is the second step of import (refer to the screenshot below), you can map the columns (drag and drop from LHS to RHS).

Privileged A	ccount Manager								Q ✓ Search Accounts	
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
olumns in File		Mapping i	n Securden		0	Reset				
Acct Name		Account Title *								
Credential		Acct Name				×				
IP Add		Account Name				×				
Folder ID		Password *								
Text		Credential				×				
		Address *								
		IP Add				×				
		Folder Name		Drag a field here						
		Folder Path				Delimiter (D			
				Drag a field here						
		Folder ID Folder ID				×				
		Notes				9				
		Text				×				
		Toos								

For example, you can map

Acct Name -- > Account Title

Acct Name ---> Account Name

Credential --> Password

IP Add - -> URL

Hostname --> Hostname (additional field added by creating a new account type)

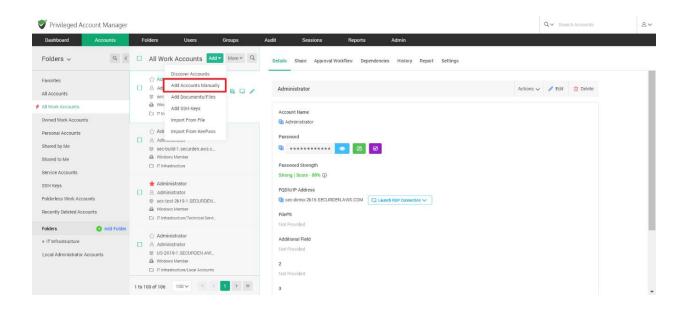
extra --> Extra (additional field added by creating a new account type)

grouping ---> Folders.

Adding Accounts Manually

You have the option to add accounts to the repository manually. Accounts associated with domain joined computers, servers, accounts, service accounts, organizational units (OUs), and groups, can be automatically discovered and added. Other accounts such as website accounts, files, etc. that cannot be discovered automatically can be added manually and managed with Securden.

To add an account manually, navigate to **Accounts >> Add >> Add Accounts Manually**



 In the GUI that opens, you can fill in the fields and classify it either as a Work account or a Personal account.

Privileged A	Account Manager									Q ← Search Accounts	
Jashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
dd Accou	nt								Help [
🔮 Work	O Personal								directly dis manage the not domain addition, yo	hat are part of the domain-joined comput covered and added to Securden. If yo local administrator accounts of compute -joined, manual addition would be a good u can make use of this option to add ar be discovered, such as website accounts	u want rs that a l option. ly accou
ount Title *				Account Type Windows Member			~		Classifica	tion	
count Detai	s								official acc Personal a	egregate the account as 'Work' and 'Pers ounts used for work belongs to your or counts are your own (such as your pers ersonal accounts cannot be shared with o	ganizatio onal em
count Name *				Password *			A # 0		Account T	itle	
									helps uniqu	ely identify the account being added.	
N/IP Address				Folder -None-			~ (i)		Account T	уре	
PS *									reporting. I	sify the accounts for easy manage f you want to add a new type, you can o ccount Management >> Account Types.	
iose a file			Browse	Additional Field					Account N	lame	
			~	3 value1			~		depicts the added.	username or login name of the acco	iunt be
									Password		
ose a file			Browse							tual password of the account. Thereafter the password.	. Secure
									FQDN/IP	Address	
									enter the	FQDN/IP Address of the machine to v	which t

Work Accounts

Your official accounts used for work can be added as work accounts. This account can be shared with other people in your organization.

Personal Accounts

Personal accounts are your own accounts. Personal accounts can be health care accounts, email accounts, bank accounts, social security numbers etc.

Note:

1) The primary differentiating factor between a work account and a personal account is that a personal account cannot be shared with another user in the organization.

270 Securden Unified PAM

- Personal Accounts cannot be viewed by any other user. Even the most privileged role like the Super Administrator would not have the ability to view personal accounts belonging to individual users.
- 3) You may disable users from creating and storing personal accounts. Navigate to Admin >> Configurations to configure this option.

💎 Privileged A	ccount Manager										Qv s	Q 🗸 Search Accounts
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Admin > Configura												
innited time-duration												
	r users are created whe ou like to remove the new					No Change						
Technician Acc	ess											
	onfigure the MFA syster or during technician acc		zation to be the add	fitional		Yes Change						
	rict the time duration fo me duration (in minutes			users will		No restrictions Change						
Personal												
Do you want to allo	w your users to manage	e personal accounts?	?			Allowed for All Change						
Browser Exten	sion											
Do you want to allo using browser exte	w automatic submissio nsion?	n of credentials for d	directly logging in to	websites		Enabled for All Change						
	shared with 'Open Conr credentials on websites			w		Enabled for All Change						
Do you want the Se of the web pages?	curden browser extensi	ion's auto-fill icon to l	be present in all inp	eut fields		Disabled for All Change						

To add an account, select the type of account i.e., **Work** or **Personal**, and enter the required information:

Privileged Account Manager									Q ← Search Accounts	
Dashboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Add Account								Help	2	
du Account									s that are part of the domain-joined comp discovered and added to Securden. If y	
S Work								manage	the local administrator accounts of compu ain-joined, manual addition would be a goo	iters that are
Work O Personal								addition.	you can make use of this option to add a	any accourt
count Title *			Account Type					that can	not be discovered, such as website account	ts.
			Windows Member			~		Classifi		
ccount Details									u segregate the account as 'Work' and 'Pe ccounts used for work belongs to your o	
									accounts are your own (such as your per Personal accounts cannot be shared with	
ccount Name *			Password *		,	* •		Accoun	t Title	
			10331010						quely identify the account being added.	
			Folder							
QDN/IP Address *			-None-			~ (i)		Account		
								reporting	lassify the accounts for easy manag . If you want to add a new type, you can	do so from
llePS * hoose a file		Browse	Additional Field					Admin >>	Account Management >> Account Types.	
								Accoun		
10		~	value1			~		depicts added.	the username or login name of the act	count bein
c								Passwo	ed.	
icose a file		Browse							ru actual password of the account. Thereaft	ler. Securde
									age the password.	
gs								EODN///	P Address	

- Account Title: The account title helps uniquely identify the account added, this makes it easier to add to folders and share with users as well.
- Account Type: You can select an existing account type added in Securden or choose to create a new account type for the account being created. This helps classify the accounts for easy management and reporting. If you want to add a new type, you can do so from Admin >> Account Management >> Account Types.

Note: The Account Type determines the different attributes that you will need to fill, this could vary from being a simple text field to a specific file attachment. The most general fields are covered below.

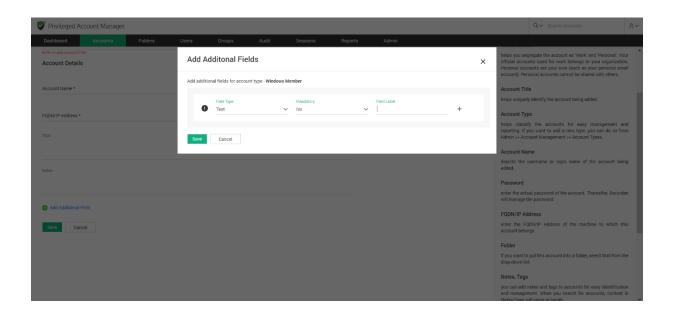
- Account Name: This depicts the username or login name of the account being added.
- **Password:** In this field you enter the actual password of the account. After doing so, Securden will take over the management of the password including periodic password resets if needed.
- Folder: If you want to add this account to a folder, you can select one of the existing folders in Securden or add a new folder by clicking on the Add folder option from the drop down.
- **File:** You can browse and select a file from your computer to attach with the account.
- Notes and Tags: You can add notes and tags to accounts for easy identification and management. When you want to search for accounts, content in notes / tags will come in handy.

Adding Additional Fields:

You can add any number of additional fields for a selected account type. The fields you add for a particular account type will be displayed for all accounts belonging to this account type.

Click on the **Add Additional Fields** to enter a text, password or file associated with the account.

- Choose a Field Type, either a text password or file.
- Choose whether the added field should be made mandatory for this account type.
- Enter a field label for easy identification.
- Use the + to add more Fields and to remove extra fields.
- Once added, click **Save** to continue.



Once done with entering all the fields under Add Account click **Save** and your account will be added to Securden.

Global tags

When user tag creation is disabled, they have the option to select from a list of globally available tags to associate with each account.

Administrators can create, edit, and delete global tags. All global tags created are listed here.

To configure Global tags, navigate to **Admin >> Account Management >> Global tags**.

💎 Privileged Account Manag	er		a	Search Accounts	8~
Dashboard Accounts	Folders Users Group	s Audit Sessions Rep	Admin Admin		
	Account Management	Customization	Security Solution Administrator Groups Change Encryption Key Location P Address Restrictions Block Access		*
	Event Listener Clobal Tags Approval Workflow Password & Privilege Requests Privilege Elevation & Delegation	API Access Authentication Token For API Access Authentication Two Factor Authentication Provematic to SMS Gateway	Remote Sessions and Recordings		

To add a new global tag, click on **Add Tag**.

💙 Privileged Ac	count Manager								Q ✓ Search Accounts	8
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
Admin > Global Tag	S									
Global Tags										
When user tag c	eation is disabled, they	have the option to s	elect from tags crea	ated globally. You ca	n create, edit, and	d delete global tags her	e.			
9 0 III	Add Tag Delete Tag	1							Showing 1 to 2 of 2	25 🗸
Tag Name						Actions				
Internal IT						/ 🗇				
Vendor IT						/ 🖬				
Showing 1 to 2 of 2	25 🗸								« < 1	> >>

In the GUI that opens, you can select/create any number of tags and **Save** them in Securden.

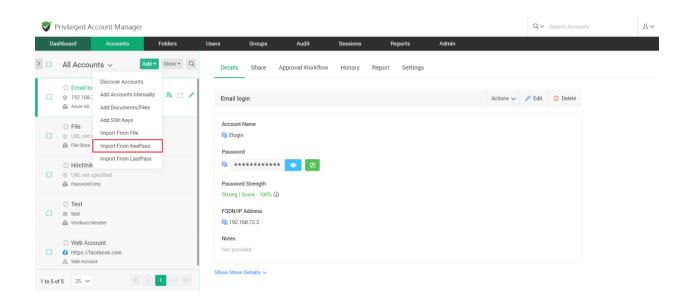
Privileged Account Manager			Q V Search Accounts	8~
Dashboard Accounts Folders Users	Add Global Tag(s)	×		
Admin > Global Tags		^		
Global Tags	All users will be able to see the tags that are created here. They can apply these tags accounts that they add or update.	to		
When user tag creation is disabled, they have the option to select from	Tag Name(s) * Clear All			
Q C III Add Tag Delete Tag	Infrastructure users ×		Showing 1 to 2 of 2 25	~
Tag Name	Save Cancel			
Internal IT				
Vendor IT	/0			
Showing 1 to 2 of 2 25 V			« < 1 >	

On configuring global tags, users can associate tags with accounts shared with them or owned by them. The globally created tags are displayed as a dropdown items when each account is created.

Importing accounts from KeePass

If you are using KeePass and migrating to Securden, you can import your data into Securden. KeePass allows the export of its data in two formats: XML (2.x) and XML (1.x). If you have your data from KeePass in any of these formats, you can import them to Securden using the steps below.

Navigate to **Accounts >> Add >> Import from KeePass** from the dropdown menu.



In the GUI that opens,

1. Select the appropriate file format – Either XML (2.X) OR XML (1.X)

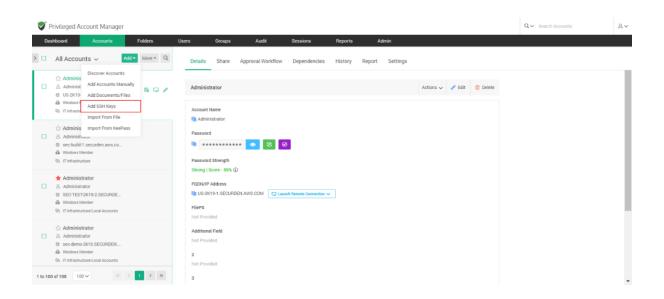
Privileged Account N	anager						Q√ Sei	arch Accounts	8~
Dashboard Accor	unts Folders	Users	Groups A	udit Sessions	Reports	Admin			
XML (2.X)	×	ML (1.X)							l
Classification Work Select the type under whether type under whether type under whether type under whether the type under whether type	 Personal ich the accounts are 	e to be imported							
Account Type Windows Member XML file to be imported		~							
Browse and select the file exp	orted from KeePass.	Browse							
Allow duplicates to be added	d.								
Create folders as in KeePas	S								
Submit Cancel									•

- 2. Choose whether the accounts imported should be classified as Work or Personal. (**Note:** Personal accounts cannot be shared)
- 3. Select the account type under which the accounts are to be imported.
- 4. Choose and upload the XML file.
- 5. When the checkbox **Create folders as in KeePass** is selected, the folder structure that was maintained in KeePass will be replicated in Securden.
- 6. Finally, choose the parent folder from the drop-down list and click **Submit**.

Add and Manage SSH Keys

The provision to manage SSH keys helps you store the keys securely, track their usage, and associate them with required Unix devices for authentication and remote access.

To add SSH keys, navigate to the **Accounts** tab and click on **Add** and select **Add SSH Keys** from the drop-down.



In the GUI that opens, enter the following details:

😴 Privileged Account Manager			Q. ✓ Search Accounts & ∠
Dashboard Accounts Folders Users	Groups Audit Sessions	Reports Admin	
Account Title *			that cannot be discovered, such as website accounts.
SSH Key 1	Account Type SSH Key	~	Classification
Account Details			helps you segregate the account as 'Work' and 'Personal'. Your official accounts used for work belongs to your organization. Personal accounts are your own (such as your personal email account). Personal accounts cannot be shared with others.
Private Key * ③			
Choose a file Browse	Passphrase	R #	Account Title
			helps uniquely identify the account being added.
PuTTY Private Key (.ppk) Choose a file Browse	PPK Passphrase	Rø	Account Type
Folder			helps classify the accounts for easy management and reporting. If you want to add a new type, you can do so from Admin >> Account Management >> Account Types.
-1010			Account Name
Tags			Account Name depicts the username or login name of the account being added.
			Password
Notes			enter the actual password of the account. Thereafter, Securden will manage the password.
			FQDN/IP Address
Add Additional Field			enter the FQDN/IP Address of the machine to which this account belongs.
			Folder
Save Cancel			if you want to put this account into a folder, select that from the drop-down list.

Account Title: Helps uniquely identify the account being added.

Account Type: The account type is set to default as SSH Key.

Account Details: Securden allows you to store the SSH keys along with the passphrase associated with them. There are two types of keys supported in Securden.

Private key - Private key slot accepts **.pem** files and is used to launch web based SSH/SQL connections. In case a .pem file is unavailable you may browse and upload a **.ppk** file, but this will only let you launch PuTTY connections.

PuTTY Private key - PuTTY Private key slot only accepts .ppk files and is used to launch putty connections.

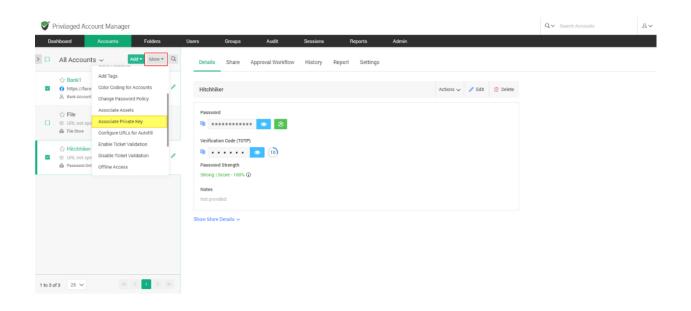
Folder: If you want to put this SSH Key account into a folder, select the required folder from the drop-down list.

Tags, notes: You can add notes and tags to the SSH Key for easy identification and management. When you search for keys, content in notes/tags will come in handy.

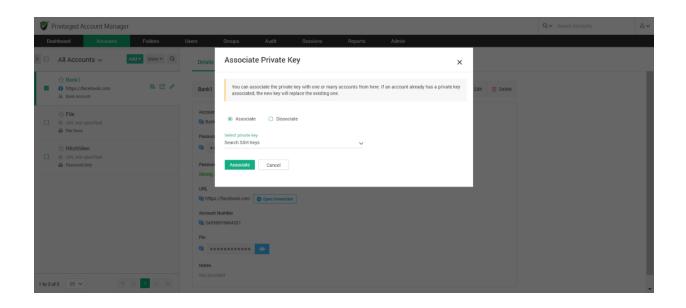
Once you enter all the details, click on **Save** to store the SSH Key.

Associating the SSH Keys to Accounts

After adding the keys, you can associate the key with the required accounts by navigating to **Accounts >> More >> Associate Private Key**.



Select **Associate** and then select the private key account from the drop down, click **Associate** once you have selected the key.



After associating the key, you can open direct connections with remote Unix devices using private key authentication.

Add Documents/Files

In addition to passwords, you can also store and manage documents, files, images, license keys and others. You can either attach files along with an account or even store the documents individually.

Step 1: Navigate to **Accounts >> Add >> Add Documents/Files** in the GUI.

Dashboard	Accounts	Folders	Users 0	Groups	Audit	Sessions	Reports	Admin				
] All Ac	Discover Accounts	d▼ More▼ Q	Details	Share Appro	wal Workflow	Dependencies	History	Report Setti	ings			
] ≗ Adm ⊛ US-2 @ Wind F5 IT Inf	Add Accounts Manua K19 Add Documents/Files		Administrat						Actions 🗸	🥒 Edit	🗊 Delete	
	Import From File	3	Administr Password	ator		_						
B Wind	172.187.170 ows Member Administrator Accounts		Verification 0			8						
은 Adm 응 sec-l 뤏 Wind	ninistrator inistrator build-1.securden.aws.co ows Member rastructure		Password Str Strong Score FQDN/IP Add	e - 100% 🛈	(27)							
★ Adm Adm	ninistrator		US-2K19- FilePS Not Provided		.COM GR Laur	nch Remote Connection 🗸						
G IT Inf	ows Member rastructure/Local Accounts		Additional Fie Not Provided									
☆ Adm 100 of 115	100 V « «	1 > >>	2 Not Provided									

You can classify the file as **Work** or **Personal**

Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin	
dd Accour	at .								Help 🛜
	it.								Accounts that are part of the domain-joined computers can be directly discovered and added to Securden, if you want to
😋 Work	O Personal								manage the local administrator accounts of computers that are not domain-joined, manual addition would be a good option. Ir
WORK	O Personal								addition, you can make use of this option to add any account
count Title *				ccount Type					that cannot be discovered, such as website accounts.
			F	ile Store			~		Classification
ccount Details									helps you segregate the account as 'Work' and 'Personal'. You official accounts used for work belongs to your organization
Joount Detune									Personal accounts are your own (such as your personal ema account). Personal accounts cannot be shared with others.
ie *				ocument Password(II	(and		ø (i)		
oose a file			Browse	ocument Password(i	any)				Account Title helps uniquely identify the account being added.
			R	older					
RL.			-	None			~ ©		Account Type
piry									helps classify the accounts for easy management and reporting. If you want to add a new type, you can do so fron Admin >> Account Management >> Account Types.
10.00									Account Name
25									depicts the username or login name of the account being added.
									Password
les									enter the actual password of the account. Thereafter. Securder will manage the password.
									FQDN/IP Address

Step 2: Once you have classified the file as work or personal, you need to enter the following details:

Account Title: Provide a suitable title for identification purposes.

Account Type: This is set to the File Store type by default.

Browse: Select the required file from your device.

Document Password (if any): Enter the password if the file is locked from accessing.

Note: You can choose to generate a password. If you are generating a password here, you should manually configure the file to be password protected. While configuring, you should assign the password generated by Securden to the file.

Add into a folder

If you want to assign the file being added into an existing folder, you can select one from the drop-down. If you want to assign the file to a new folder, you can do so by clicking **Add Folder**.

Add Additional Fields

Once the details have been entered, if required, you can add additional fields by clicking **Add Additional Field**.

You have the option to add a text, password or a second file associated with the account.

• Choose a Field type, either a text, password or file.

283 Securden Unified PAM

- You have the option to make this additional field mandatory. If you want to enforce this field, select **Yes** from the drop-down.
- Enter a field label for easy identification.
- Use the `+' to add more Fields and `-' to remove extra fields.
- Once added, click **Save** to continue.

Once all the required fields under Add Accounts are filled, click **Save** and your file will be added to Securden.

Note: Files of any format up to the size of 25MB can be stored.

View Account Details, Passwords

You can view the passwords of accounts, edit attributes, and access other information from **Accounts** tab in the GUI. Click the respective account title to view the details.

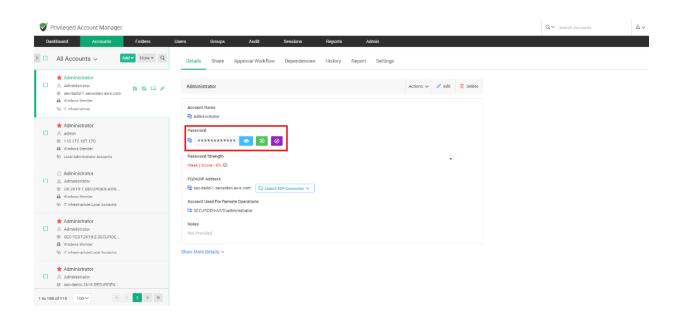
The basic details of an account are displayed on the right pane when you click on any account. This includes the account name, password, IP address and other security related information. The **Details** section provides a quick overview of the selected account in the inventory.

To view the passwords and other details of a specific account, navigate to Accounts tab and then click the Details tab on the right pane. Click the respective account title on the left pane, you will see the details like account name, password, and other attributes. You can also edit the account properties from the details section.

The primary information in the **Details** pane consists of:

Account Name

 Password - On the right side, next to the Password field, there are three options to Show/Hide Password, Change Password, and Verify Password.



Note: The password and all related fields will only be displayed if the user has all the required permissions.

- 1. To see the password and the strength score, the user must at least have **View** permission for the account.
- 2. To change the password, the user must at least have **Modify** permission for the account.

Password Strength - The password strength that is displayed is based on a set of predefined parameters defined in Securden.

Day	shboard Accounts Folders	Users Groups Audit Sessions Reports	Admin				
	All Accounts ~ Add ~ More ~		eport Settings				
	★ Administrator Administrator © seo-build-1.securden.aws.com ∰ Windows Nember © it Infrastructure	Administrator		Actions \checkmark	/ Edit	Delete	
	Administrator a admin I10.172.187.170 Windows Member Could Administrator Accounts	R Administrator Password R ********** Password Ø Password Strength					
0	Administrator Administrator Administrator US-2K19-1.SECURDEN.AWS Windows Member Tolfrestructure/Local Accounts	Weak Score - ON: 0 FODI//IP.Address Passworld Analysis Rise ob bail:01.stel & Desn't contain special characters Account Used For © Desn't contain special characters @ SECURDENAW @ SECURDENAW					
	Administrator Administrator Administrator Content						
	Administrator Administrator sec-demo-2k16.SECURDEN	Absentione is not part of the password Password is not recycled Password is not recycled Password and recent contain sequential characters Password is not recent.					

Each of these parameters has a weightage assigned to it, based on which the password strength score is determined.

Note: This score is independent of the password policy assigned to the account.

Password Management Operations

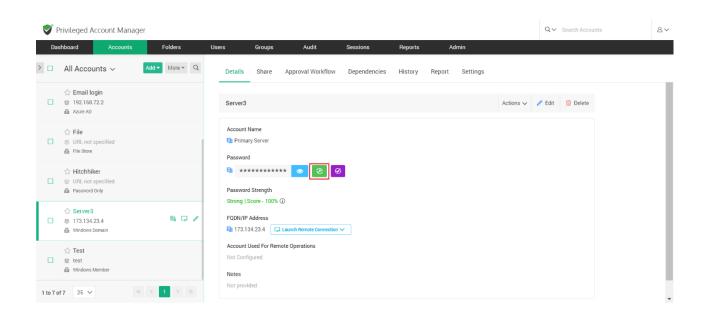
You can carry out certain operations like remote password resets and password changes in PAM.

Change Password

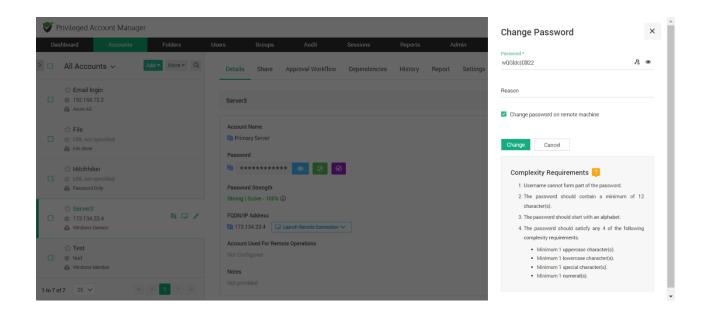
You can change the password of an account locally in Securden by navigating to the **Accounts** tab and selecting the account from the left panel whose password needs to be changed. On the right panel under the **Details** section,

on the right side of the **Password** field there are three options to Show/Hide Password, Change, and Verify the password.

Click on the **Change** password icon, a **Change Password** window opens.



There you can enter a new password manually or use the password generator to generate a strong password. You also need to justify the action by entering a reason. Clicking on the **Change** button will change the password within Securden.



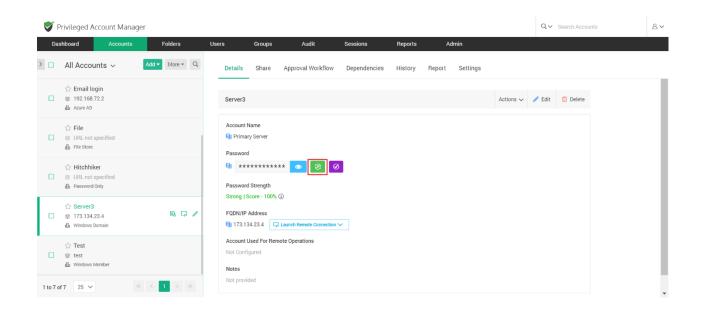
The new password being created must satisfy the complexity requirements so that the strength and robustness of the password is ensured.

Note: The password complexity rules are set under the **Password Policy** navigating to **Admin >> Password Policy**

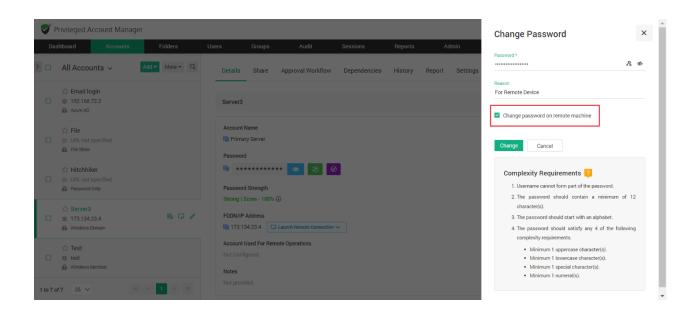
Remote Password Reset

With Securden, you can reset passwords of accounts on remote devices from the **Accounts >> Details** section in the GUI.

Select the account from the left panel and click on the **Details** tab and then click on the **Change** password icon next to the **Password** field.



In the pop-up window, change the password and then select the checkbox **Change password on remote machine**.

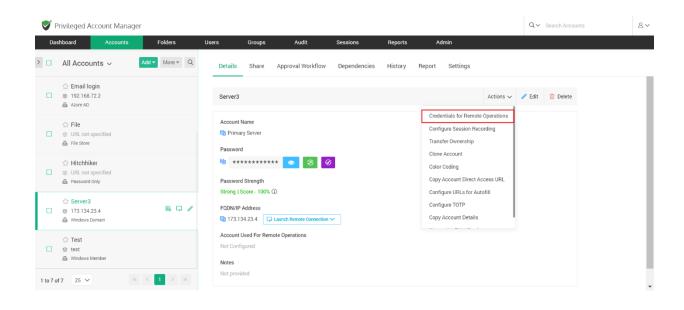


While resetting the passwords, you can take the help of Securden's password generator, which helps generate strong passwords. (**Generate password** is located beside the eye icon).

Remote password reset is supported for IT assets like servers, databases, and other network devices. To reset passwords of other accounts, you need to copy the generated password and manually carry out the password reset.

Troubleshooting Tip

Sometimes, the password is not reset successfully if the credentials for performing remote actions are not supplied. This can be resolved by supplying the required credentials in **Accounts** >> **Details** >> **Actions** >> **Credentials for Remote Operations.**



•

To perform remote actions on a particular device, select an account stored in Securden with the administrator credentials to log into the remote machine. Select the account from the drop-down then click **Save**.

	Privileged Account Manage	r						Q ← Search Accounts	8	r
Da	shboard Accounts	Folders	Users Groups	Audit Sessi	ons Reports	Admin				
> 🗆	All Accounts \sim	Add • More • Q	Credentials for I	Remote Operation	5	×				
•	☆ Email login ⑧ 192.168.72.2 届 Azure AD		Specify the administra device.	tor account to be used as the	credential for performing rem	note actions on this	Actions 🗸 🥒	Edit 🔟 Delete		
•	습 File 응 URL not specified & File Store		Account Type Windows Domain	Title ✓ Server3	~					
	☆ Hitchhiker 응 URL not specified ♣ Password Only		Save							
	☆ Server3 ଛ 173.134.23.4 且 Windows Domain	B, Ç, /	FQDN/IP Address	unch Remote Connection V	-	-				
	☆ Test ⊗ test 월 Windows Member		Account Used For Remote Not Configured Notes	Operations						
1 to 7 d	of 7 25 🗸 🔍	< 1 > >>	Not provided							-

Alternatively, navigate to **Admin >> Device Level Configurations** and select the device type and the device name. Click the **Remote Credentials** button on the right pane.

To perform remote actions on a particular device, specify the administrator account credentials. Select the account type, the account title, and then click **Save**.

Privileged Acco	ount Ma	nager					Qv	Search Accounts	٤	₽∨
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
Admin > Device Level	Configurati	ons								
Device Types	Q	Devices	Actions	~ Q	Remote Credentials	Control Sea	sion Recording Asso	ciate Remote Gate	way Report	
AD Service Accounts		10.0.60		Ø						
Cisco IOS		172.31.1.11			Specify the admi on this device.	nistrator acco	ount to be used as the o	redential for perfo	rming remote actions	
Linux		sec-2k12-1.securd	en.aws.com							
Mac		sec-build-1.securd	en.aws.com		Account Type		Title			
MySQL		sec-test-2k19-1.se	curden.aws.com		Windows Domain	~	SECURDEN-AWS\adm	inistrator∕		
Oracle					Windows Domain					
PostgreSQL					Local Account					
SQL Server										
Windows Domain										
🟄 Windows Member		1 to 5 of 5 25 🗸	«« « 1							

Verifying Password

You can verify whether the password stored in Securden is in synchronization with the remote asset. To check if the password stored in Securden is the same as the actual password on the remote asset, click the **Verify** icon.

		Folders	Users	Groups	Audit	Sessions	Reports	Ac	Imin				
- A	All Accounts 🗸	Add - More - Q	Details	Share	Approval Workflow	Dependencies	History	Report	Settings				
	☆ Email login		Server3							Actions \checkmark	🥒 Edit	🖞 Delete	
	☆ File ② URL not specified ■ File Store		Account N	y Server									
5	☆ Hitchhiker ⊗ URL not specified ∰ Password Only		Password	Strength	** 💿 🖲 🕑								
	☆ Server3 ② 173.134.23.4 验 Windows Domain	B, G /	FQDN/IP		Launch Remote Connection	~							
	☆ Test ⊜ test 凾 Windows Member		Account L Not Config Notes		note Operations								

Troubleshooting Tips

If the verification fails, probable reasons are displayed to help you troubleshoot. Some of the common scenarios include:

- Credential mismatch between Securden and the target machine One of the reasons of a password mismatch could be the fact that when the machine was imported into Securden, the password of the remote machine could have either been changed by selecting Use username itself as password during the account discovery process or the password on the remote device was changed manually by directly accessing it.
- Inadequate remote connection privileges To verify the password, Securden initiates a remote connection to the target asset. For a user to verify the credentials, they need certain remote connection permissions. You need to provide these privileges to them for the required operating systems before they can verify credentials from PAM.
- The machine does not exist The remote machine is offline or does not exist.
- The following firewall exceptions have not been made The following default firewall ports should have been opened in the firewall to establish the respective connection:
 - o SSH 22
 - o RDP 3389
 - o SQL 1433

Password History

You can view all the password changes performed on a particular account from this section of the GUI. This section details the information related to **who** changed the password, **when** was the password changed, and the reason for the change. Additionally, you can also perform a filter and search for historical password changes based on attributes such as **Modified On**, **Modified By**, and **Reason**.

V F	Privileged Account Mana	ager						Q ← Search Account	its £
Da	shboard Accounts	Folders	Users Groups	Audit	Sessions Rep	orts A	dmin		
>	All Accounts $ \sim $	Add More Q	Details Share	Approval Workflow	Dependencies Hist	ory Report	Settings		
	☆ Email login ⊗ 192.168.72.2 ♣ Azure AD		Historical data relate for changing.	ed to password changes o	of this account are listed here.	Information on 'w	ho' changed the password and from	'where' are depicted along	g with the reason recorded
	☆ File ◎ URL not specified B File Store		Q C III Password	Modified On	¢ Modif	ied By	Reason	Sh	owing 1 to 2 of 2 25 x
	☆ Hitchhiker ② URL not specified 월 Password Only		⊕ ♥ ************ ⊕ ♥ ***********************************	24 Jul 2023 24 Jul 2023		den Administrator den Administrator			assword Modified Loc
	☆ Server3 © 173.134.23.4 ∰ Windows Domain	B, Ç, 🖊	Showing 1 to 2 of 2	25 🗸					« < 1 > »
	☆ Test ⊗ test ⊕ Windows Member								
1 to 7 o	of 7 25 🗸	« < 1 > »							

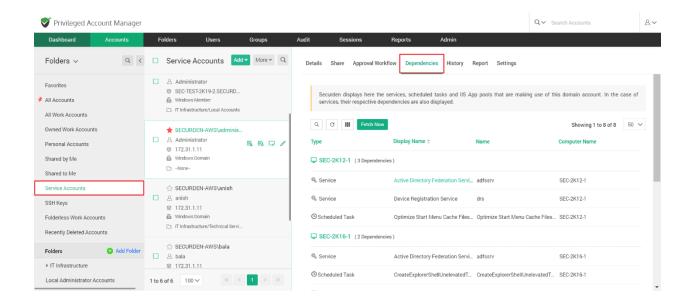
Note: The historical data related to password changes of an account are stored indefinitely.

Manage Windows Dependencies and Service Accounts

During the Windows discovery process, Securden fetches and displays the services, scheduled tasks and IIS App pools that are making use of domain accounts. The dependencies of domain accounts are organized by the device on which they are running.

You can manage service accounts in two ways:

1. Navigate to **Accounts** and click **All Accounts**. Select **Service Accounts** from the drop-down. It will list down all the domain accounts with dependencies. When you click a particular account, and then click the **Dependencies** tab in the right pane, you will see the list of all dependencies.



Alternatively, you can click any domain account on the **Accounts** tab and then click the **Dependencies** tab in the right pane, you will see the list of all dependencies.

V I	Privileged Account Manager							Q ✓ Search Accounts	
Da	shboard Accounts Fold	ders	Users Groups	Audit	Sessions Repo	rts A	Admin		
	All Accounts ~ Add ~ N	lore * Q	Details Share	Approval Workflow	Dependencies Histo	ry Report	Settings		
	Windows Member Local Administrator Accounts	l	Securden displays he also displayed.	ere the services, scheduled	tasks and IIS App pools tha	it are making us	e of this domain account. In the case	of services, their respective depe	ndencies are
	Administrator Administrator Administrator US-2K19-1.SECURDEN.AWS.COM Windows Member □ If Infrastructure/Local Accounts	B 🖓 🖊	Q C III Fet	ch Now Disple	y Name ÷	Name	e	Showing 1 to 1 o	of 1 50 \
	Administrator Administrator Sciencesses Sciencessessessessessessessessessessessessess		US-2K19-1 (1 Depe	Creat	ExplorerShellUnelevatedTas	sk Creal	teExplorerShellUnelevatedTask	US-2K19-1	
	Administrator Administrator Sec-build-1.securden.aws.co Windows Member IT Infrastructure		Help ? While discovering de example, if you speci	ify only a specific account	and a computer, the accounts	s dependencies f	computers being discovered and from from that computer alone would be fet	ched. Similarly, if you specify a co	uple of OUs,
1 to 10	0 of 116 100 √ 《 < 1	> >>	dependencies from a included.	all the member servers of t	e specific OUs would be imp	ported. In additio	on, dependencies, if any, from the com	puters already discovered by Secu	rden will be

Whenever the password of a domain account is changed, Securden takes care of propagating the change across all dependencies. This way, you can always have complete visibility and control over service accounts and dependencies.

Note: When a password on a domain account is changed and you want the related dependencies to be restarted immediately, navigate to **Admin** >> **Account Dependent Services** and select **Yes** for the question - *Do you want* to restart the dependent services once password change gets propagated?

Launching Remote Connections

Most organizations give staff, independent contractors, and third-party vendors remote administrative access to IT assets. If this access is not monitored, it opens the door for malicious insiders and outside attackers to exploit it. Furthermore, enabling direct remote access between end-user computers and the targeted IT assets might propagate security vulnerabilities.

One of the important capabilities of Securden is automatically launching connections to remote computers and devices without disclosing the underlying passwords. You can open direct remote connections with Windows, Linux, and Mac devices from Securden's GUI. This feature helps you can grant your remote workforce, including IT administrators, and third-party technicians secured administrative access to internal IT assets that are kept behind corporate firewalls.

Establishing Remote connections: Securden supports a variety of remote connections to IT assets running on different platforms. The following connections are supported.

Web-based and native connections:

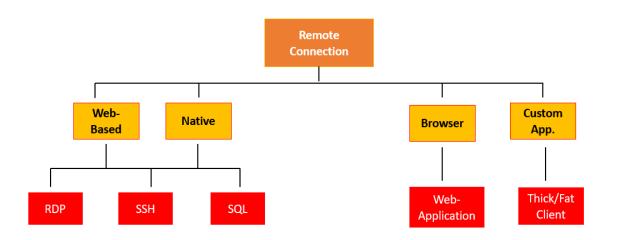
- RDP for establishing connection with Windows devices.
- SSH for establishing connection with Linux devices.
- SQL for establishing connection with Oracle and SQL database servers.

Brower-based connections

 You have the option to launch web-applications directly from the PAM interface. The target web-application will be launched on a browser window and credentials will be injected directly by the Securden browser extension.

Connections to thick clients

 Securden lets you self-support connections to any thick client application through Custom Application Launchers. To establish connections to applications like DBVisualizer, Toad, ERP solutions, Zoom, Skype, etc., you need to create a launcher profile listing the actions along with the sequence in which they must be performed on the application.



Web-Based Connections

Users can launch connections using a web-browser without installing anything on their machines. There are no prerequisites for this option.

The web-based connections use the Securden server as the starting point to launch connections to the target device. The target machine must be in the operability range to successfully launch web connections. In web-based connections, certain operations like file transfer, and audio and video recording are not supported.

Note: Prior to launching a remote Windows RDP session connection, you need to configure either a domain or a local account that users can use to authenticate and launch the session using the remote host.

To launch web-based RDP, SSH, and SQL connections, select the required account and click **Launch RDP/SSH/SQL Connection** and then choose the web-based option. After selecting the required option, a small popup window will appear.

Das	hboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Adm	in				
	All Accounts ~	Add More Q	Details	Share	Approval Workflow	v Dependencies	History	Report	Settings				
	Administrator Administrator Sec-test-2k19-1.SECURDEN.AW Windows Member I'l Infrastructure/Technical Services		Adminis Account	Name nistrator						Actions ~	🥒 Edit	Delete	
	 ★ Administrator △ admin ○ 110.172.187.170 ▲ Windows Member □ Local Administrator Accounts 		Passwor Strong	******* d Strength Score - 89% (*** 💿 🥺	0							
	Administrator Administrator Administrator US-2K19-1.SECURDEN.AWS Windows Member Tinfrastructure/Local Accounts			est-2k19-1.SE	mote Operations	CR Launch RDP Connection aunch Native RDP aunch Web-based RDP							
	Administrator		Notes Not Prov	ided									

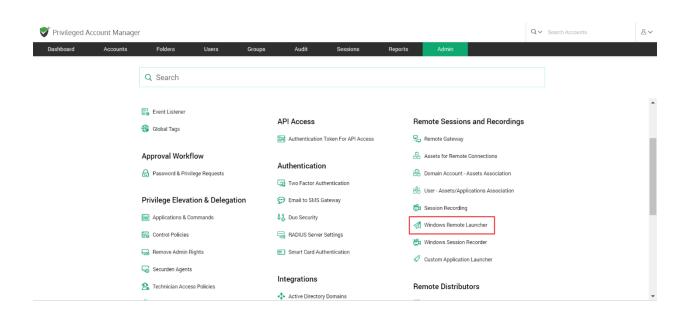
Here you can choose the asset you wish to connect to or specify the name. After you select the required asset, click **Connect** to launch the connection.

Using Native Client Applications

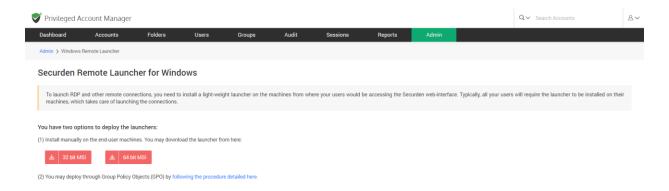
To use native client applications for RDP, SSH (PuTTY, SecureCRT etc.); SQL, a lightweight launcher application must be installed in all the end-user machines.

Installing Windows Remote Launcher for launching Native RDP connections

To launch a Native RDP connection, you need to install a lightweight launcher called **Securden Remote Launcher** on all the machines from which you would be connecting to the Securden web interface. The launcher can be downloaded and installed from **Admin >> Windows Remote Launcher**.

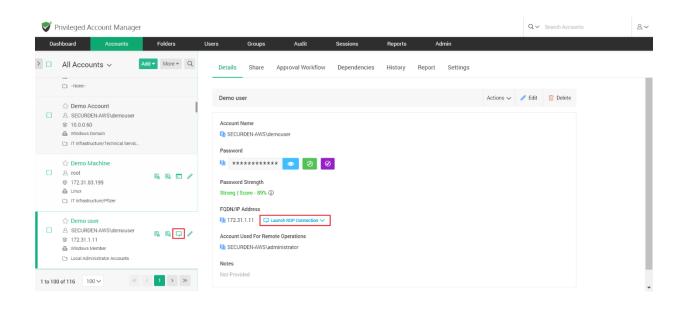


In the GUI that opens, you can follow the instructions provided to install the **Windows Remote Launcher**.



Launching Native RDP connections

RDP connections are mainly used to access Windows-based machines and network devices. Navigate to the Accounts section in the GUI, click the required account, click the **Launch RDP Connection** connection button appearing alongside the account information on the left-hand side. Alternatively, you can click the drop-down menu named **Launch RDP Connection** from within the Account to launch a connection.



Native RDP Connections: Troubleshooting Checklist

Securden Remote Launcher makes use of MSTSC for invoking remote desktop sessions. The following is a compilation of some of the settings that need to be checked to ensure proper working of RDP sessions. These settings are to be checked on the client machine from which native RDP connections are launched.

Settings to be checked in mstsc app:

Click **Show Options** in the RDP connection window and look for the checkbox **Always ask for credentials**. This option should remain unselected. Ensure this, close the mstsc application and then try launching the connection through Securden.

A Contraction of the second se	Remote De Connect			
ieneral	Display Local Resource	es Experience	Advanced	
Logon s	ettings			
	Enter the name of the	remote computer	r.	
000	Computer:			~
	User name: oi	****		
	Saved credentials will			mputer.
	You can edit or delete	these credential	S.	
	Always <u>a</u> sk for cre	dentials		
Connect	ion settings			
	Save the current cons saved connection.	nection settings to	o an RDP file	or open a
	<u>S</u> ave	Sa <u>v</u> e As	C)p <u>e</u> n

Changes in Default.rdp file - Navigate to the **Documents** (My Documents) folder and look for the **Default.rdp** file in that folder. If the file is present, look for **prompt for credentials: i:1** and change that to **prompt for credentials: i:0**. Save the changes and then try launching the RDP session through Securden.

Default.rdp - Notepad File Edit Format View Help redirectsmartcards:i:1 redirectclipboard:i:1 redirectposdevices:i:0 autoreconnection enabled:i:1 authentication level:i:2 prompt for credentials:i:0 negotiate security layer:i:1

Group Policy: Always prompt for password upon connection.

1. Open **Run** command and open gpedit.msc or gpmc.msc depending on your need.

2. Navigate to Computer Configuration >> Administrative Templates >> Windows Components >> Remote Desktop Services >> Remote Desktop Session Host >> Security. Look for the policy named Always prompt for password upon connection.

Local Group Policy Editor ile Action View Help ■ ➡ 🙇 💽 📴 🗊 🍞				
MOM Messaging Microsoft account Microsoft Secondary Auther Microsoft User Experience V NetMeeting OneDrive Online Assistance OOBE Portable Operating System Presentation Settings	Description: 🗮 Ahways promp	Set client conne Always prompt Require secure		State Not configured Disabled Not configured Not configured X configured
Push To Install Push To Install Concerning To Licensing Remote Desktop Services Remote Desktop Service Concections Device and Resource Licensing Printer Redirection	This policy setting Remote Desitop 5 prompts the clien upon connection. You can use this s password prompt (Disabled on to Remote Des in the Remote Des client.	d Comment: Supported on:	At least Windows Server 2003 operating systems or Windows XP Professional	< >
Profiles Profil	Client. By default, Remot allows users to allow by entering a pass Desktop Connecti If you enable this cannot automatic Remote Desktop 5 remotions there an		Help: This policy setting specifies whether Remote Desktop Services always prompts the client for a password upon connection. You can use this setting to enforce a password prompt for users logging on to Remote Desktop Services, even if they already provided the password in the Remote Desktop Connection clien	•

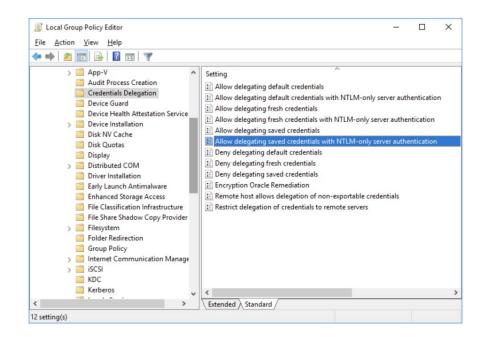
- 3. Double-click the policy and **disable** it.
- 4. Save the changes.

5. If a domain level policy is to be updated, you need to additionally run the command gpupdate/force in the command prompt as an administrator.

Group Policy: Allow delegating saved credentials with NTLM-only server authentication

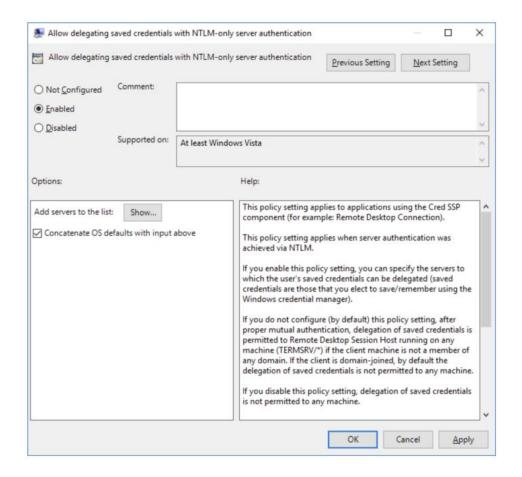
1. Open **Run** command and open gpedit.msc or gpmc.msc depending on your need.

2. Go to Computer Configuration >> Administrative Templates >> System >> Credentials Delegation. Look for the policy named Allow delegating saved credentials with NTLM-only server authentication.



2. Double-click the policy and **enable** it.

305 Securden Unified PAM



3. Click the **Show**... button and specify the list of remote computers (servers) that are allowed to use saved credentials when accessed over RDP. The list of remote computers must be specified in the following format:

> A. **TERMSRV/server1** — allow to use a saved credentials to access a specific computer/server over RDP;

> Β. **TERMSRV**/*.securden.com – allow to establish RDP connection with saved credentials to all computers in the securden.com domain;

> C. **TERMSRV/*** — allow you to use a saved password to connect to any remote computer.

5. Save the changes.

6. If domain level policy is to be updated, you need to additionally run the command gpupdate /force in the administrator command prompt.

Group Policy: Deny delegation saved credentials

1. Open **Run** command and type gpedit.msc or gpmc.msc depending on your need.

2. Go to Computer Configuration >> Administrative Templates >> System >> Credential Delegation. Look for the policy named Deny delegation saved credentials.

3. Double-click the policy and **disable** it.

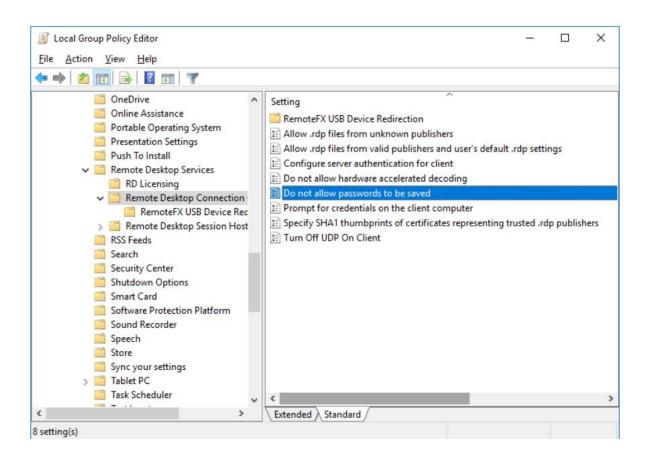
4. Save the changes.

5. If domain level policy is to be updated, you need to additionally run the command gpupdate /force in the administrator command prompt.

Group Policy: Do not allow passwords to be saved

1. Open **Run** command and type gpedit.msc or gpmc.msc depending on your need.

2. Go to Computer Configuration >> Administrative Templates >> Windows Components >> Remote Desktop Services >> Remote Desktop Connection Client. Find the policy named Don't allow passwords to be saved.



- 3. Double-click the policy. **Disable** it.
- 4. Save the changes.

5. If domain level policy is updated, you need to additionally run the command gpupdate /force in the administrator command prompt.

Group Policy: Network Access: Do not allow storage of passwords and credentials for network authentication

1. Open **Run** command and type gpedit.msc or gpmc.msc depending on your need.

2. Go to Computer Configuration >> Windows Settings >> Security Settings >> Local Policies >> Security Options. Look for the policy named Network Access: Do not allow storage of passwords and credentials for network authentication.

3. Double-click the policy and **disable** it.

4. Save the changes.

5. If domain level policy is to be updated, you need to additionally run the command gpupdate /force in the administrator command prompt.

Launching Native SSH connection

The Native SSH connection can be launched via:

- PuTTY
- SecureCRT etc.

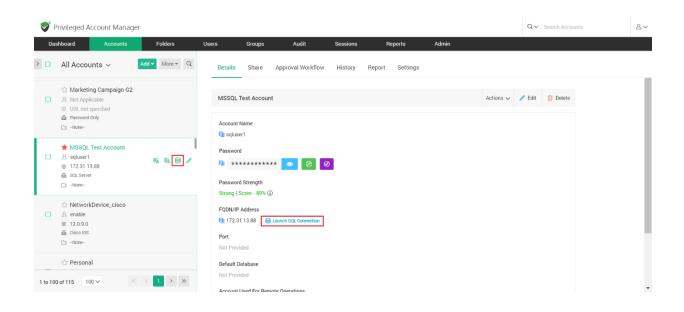
To launch PuTTY and SecureCRT connections you need the Securden Remote Launcher to be installed in the user's machine. The SSH connections are mainly used to connect to machines running Linux, Mac along with routers and other network devices.

Navigate to Accounts section in the GUI, click the required account, click the **Launch SSH Connection** icon appearing alongside the account information on the left-hand side. Alternatively, you can click the remote connection drop-down and launch a native SSH connection of your choice.

Launching Native SQL connections

The SQL connections can be launched to two types of databases, Oracle and MS SQL. All these connections are launched from the machines directly.

Navigate to the Accounts section in the GUI, click the required account, click the **Launch SQL Connection** icon appearing alongside the account information on the left-hand side. Alternatively, you can click the remote connection drop-down and launch a SQL connection.



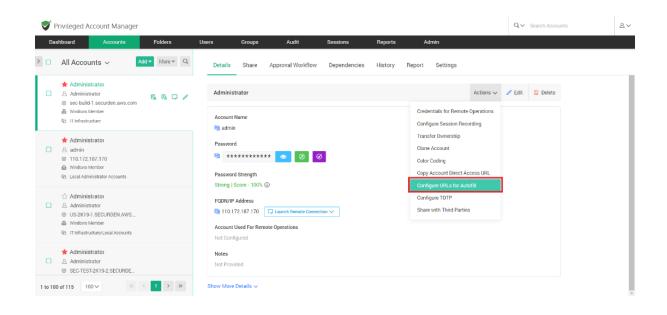
Launching connections to thick application clients

In addition to the default modes of launching web-based connections and through native clients, you can define custom application launchers to supply credentials and automatically launch any application, including thick application clients. Basically, you will be creating a profile for each such application capturing the input fields as found in the target application. You can configure the profile with placeholders to replace the required values from Securden repository at the time of launching the connections. You need to navigate to Admin >> Remote Sessions and Recordings >> Custom Application Launcher and configure the profiles.

The custom application launcher is explained in detail further in the guide.

Configure URLs for Autofill

This feature lets you fill in the username and password automatically on websites and web applications. To add URLs on which you want to autofill username and password, navigate to **Accounts >> Actions >> Configure URLs for Autofill**.



Alternatively, if you want to add the same URL to multiple accounts at the same time, you may do so by selecting the required accounts from the accounts tab and navigating to **More >> Configure URLs for Autofill**.

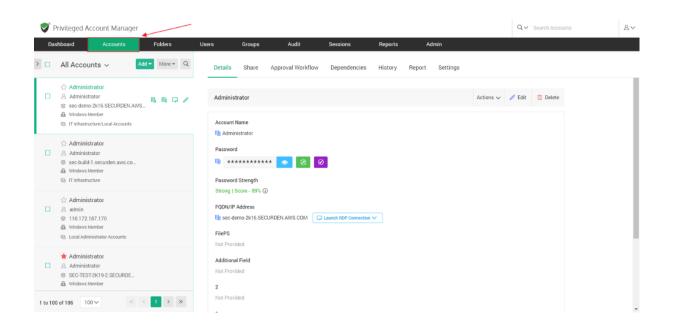
Destboard Accounts Folders Users Groups Audit Sessions Reports Admin All Accounts Add More Q Add More Q Details Share Approval Workflow Dependencies History Report Settings Administrator Change Folder Transfer Ownership Administrator Administrator Actions Q Adit Transfer Ownership Secolatified Vindows Men Add Tags Coording for Accounts Account Name Image admin Cotor Coding for Accounts Coording for Accounts Password Administrator Password Password Administrator Password Strength Storg I Score - 100% Q FOON/IP Address	Privileged Account Manager		Q ✓ Search Accounts
Administrator Administrator Change Folder Administrator Administrator Change Folder Administrator Administrator Change Folder Administrator Admin	Dashboard Accounts Folders Us	s Groups Audit Sessions Reports Admin	
Windows Main Add Tags Account Name LB Color Coling for Accounts Image Password Policy A admini Associate Assets Image Password Windows Main Associate Assets Image Password Local Admini Configure URLs for Autofield Password Image Configure URLs for Autofield Password Strength Storing I Score - 100% (I) Storing I Score - 100% (I)	* Administra		Actions 🗸 🥒 Edit 🍵 Delete
A admin Associate Assets Int 172, 187 Associate Assets Montoo ter Associate Private Key Is Local Admin Configure URLs for Autofil Password Strong I Score - 100% (I) Administrator FQDN/IP Address	Windows Men Add Tags Color Coding for Accounts		
Administrator Administrator Administrator Administrator	A admin Associate Assets 110.172.187 Windows Men Associate Private Key	B) *********** 💿 🤣 🧭	
S US 2K191.SECURDEN AWS If 110.172.187.170		FQDN/IP Address Pg 110.172.187.170 C Launch Remote Connection >	
Paintistrator Notes Administrator Not Provided Secure Sec	Administrator	Not Configured Notes	

Securden browser extension helps you to autofill usernames and passwords on web applications and webpages. You can specify the URLs on which the username and password should be auto filled. When the user launches a connection to the web application/webpage, the Securden browser extension will auto fill the credentials on the webpage.

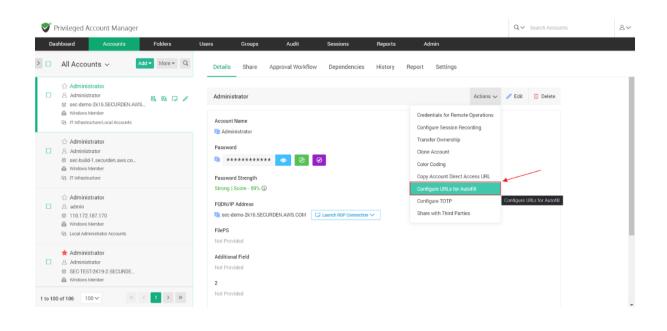
How to Add URLs to Accounts?

Follow the steps below to configure URLs for auto filling credentials.

1. Navigate to Accounts tab and select the required account.



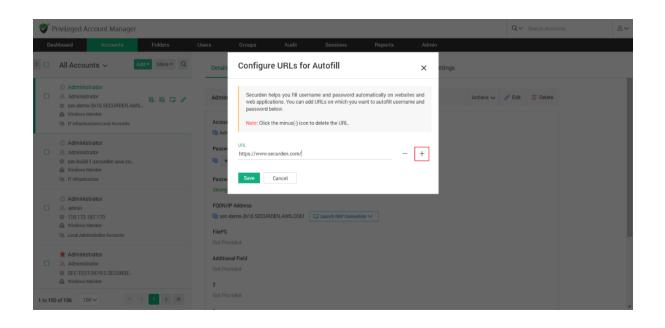
 In the Accounts tab, navigate to Actions >> Configure URLs for Autofill.



3. In the popup, you need to specify the URL on which username and password should be auto filled.

V P	Privileged Account Manager		Q V Search Accounts	8~
Das	shboard Accounts Folders	Users Groups Audit Sessions Reports Admin		
	All Accounts ~ Add ~ More *	Detail Configure URLs for Autofill X ttings		
	☆ Administrator △ Administrator ◎ sec-demo-2k16.SECURDEN.AWS ▲ Windows Nember ③ If Inificativicture/Local Accounts	Admin Securden helps you fill username and password automatically on websites and web applications. Vou can add UFLs on which you want to autofill username and password below. Account Note: Click the minus() icon to delete the UFL. I) Admin	/ Edit 🗊 Delete	
	 ☆ Administrator Administrator sec-build-1.securdon.aws.co Window Member Window Member Window Member 	Passw Passw Cancel		
٥	 ☆ Administrator à admin 110.172.187.170 Windows Member Local Administrator Accounts 	Strong FQDN/IP Address I)) see demo 2k16 SECURDEN AWS.COM		
•	Administrator Administrator SEC-TEST-2K19-2.SECURDE. Windows Member	Additional Field Not Provided 2		
1 to 10	0 of 106 100 ✓ ≪ < 1 > :	Not Provided		

4. You can add multiple URLs on which the account credentials can be auto filled. Click on the + sign to add a second URL.



5. To remove a URL, click on the - symbol.

Privileged Account Manager		Q V Search Accounts	8~
Dashboard Accounts Folders	Users Groups Audit Sessions Reports Admin		
All Accounts ~ Add * More * Q	Detail: Configure URLs for Autofill × ttings		
Or Administrator Administrator Administrator Sociedemo 216 SECURDELAWS_ Windows Member Ry IT InfestivetureLocal Accounts	web applications. You can add URLs on which you want to autoful username and password below. Accou Note: Click the minus(-) icon to delete the URL.	Edit 🗊 Delete	
☆ Administrator Administrator Actinistrator sec-build-1-securden.aws.co Windows Member Gs IT Inflastructure	Passw Life Passw Life		
	FIGPS Not Provided		
Administrator Administrator SEC-TEST/2K192_SECURDE_ Windows Member 1 to 100 of 105 100 V 《 C > > >	Additional Field Not Provided 2 Not Provided		

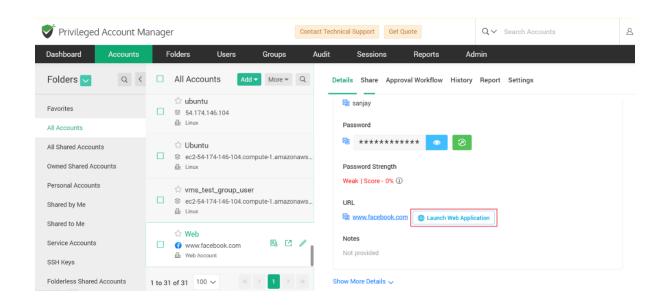
6. Once you have configured all the URLs you want, click **Save**.

How to auto fill credentials on the website?

Note: You need to install the Securden Browser Extension on the required browser to be able to utilize the auto fill feature. To install the browser extension, navigate to **Admin >> General >> Browser Extension**.

Once the URLs are configured, you can connect to the webpage or web application by navigating to **Accounts** tab.

In the accounts tab, select the required account and click on **Launch Web Application.**



In the window that opens, all the added URLs to the selected account will be available in the drop down.

		maincense expires in 22 days, contact support@securden.com to extend the that.		
Privileged Account M	anager	Contact Technical Support Get Quote	Q → Search Accounts	8~
Dashboard Accounts	Folders	Launch Web Application 🛛 🗙	lmin	
Folders 🗸 🔍 <	All Account	Select the URL on which you want to autofill username and password.	Report Settings	
Favorites	☆ ubuntu	Note: If the URL you want to open is not available in the dropdown list below,		
All Accounts	Linux	navigate to Actions >> Configure URLs for Autofill and add the URL to the list.		
All Shared Accounts Owned Shared Accounts	☆ Ubuntu © ⊗ ec2-54-1 ∰ Linux	Select the URL		
Personal Accounts Shared by Me	යි vms_te □	https://www.instagram.com		
Shared to Me	🕼 Linux	www.facebook.com	cation	
Service Accounts SSH Keys	Web Web Web Accou			
Folderless Shared Accounts	1 to 31 of 31	X X X X X X X X X		

You can select the required URL and the web application/webpage will be opened and the credentials will be auto filled.

Enable Session Recording for Accounts

You can record the various remote privileged sessions initiated by users from Securden's GUI. The recordings can then be played back as a video.

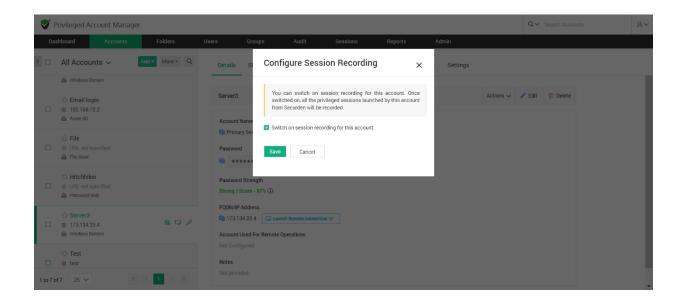
Configuring session recording is a two-step process.

Step 1: Configure session recording globally by navigating to **Admin** >> **Remote Sessions and Recordings** >> **Session Recording.** Specify which type of sessions are to be recorded and the location where the recorded files are to be stored.

ا 🎔	Privileged Ac	count Manager									Q ← Search Accounts	8~
Da	ashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Ad	min > Session Re	cording										
Co	onfigure Se	ession Record	ding									^
	specify which set for which session Pre-requisite: Pri- the jump box for	ssions are to be record recording is switched or to proceeding with s	ed and the location v on will be recorded. I ression recording cor s to route all remote	where the recorded Until the two steps offiguration, you sho operations origina	files are to be stored are completed, sessi uld have configured ting from Securden	I. In the second ste ons will not be reco remote gateways through the remot	ep, you need to switch orded. mandatorily for Wind	on session recordin	g at the accounts I or UNIX devices. Ye	evel or at the folder lev ou may designate a dee	ou need to enable session recording below and el. The sessions launched only by the accounts dicated, hardened server (Windows or Linux) as ox and start recording sessions. If you haven't	
	able session r lect the type of	ecording o	be recorded									
~	RDP sessions											
~	SSH sessions											
*	SQL sessions											
~	Telnet sessions											
~	Custom Applicati	on Launcher sessions										

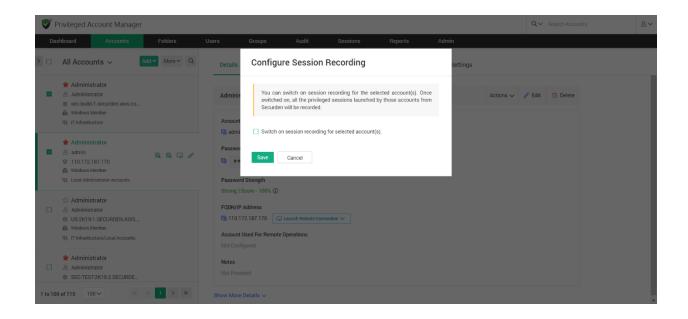
Step 2: Switch on session recording at the accounts level or at the folder level. The sessions launched using the accounts for which session recording is switched on will be recorded.

Navigate to the account for which you want to enable session recording. Under **Actions**, select **Configure Session Recording**. Once switched on, all the privileged sessions launched by this account from Securden will be recorded and stored in the specified location.



Pre-requisite: Prior to proceeding with the session recording configuration, you should have configured **remote gateways** mandatorily for Windows and optionally for UNIX devices. You may designate a dedicated, hardened server (Windows or Linux) as the jump box for a select set of devices to route all remote operations originating from Securden. Securden will route remote connections through the respective jump box and start recording sessions.

To enable session recording for multiple accounts at the same time, navigate to **Accounts** tab and select the required accounts.



Go to **More >> Configure Session Recording**, select the checkbox, and click **Save**.

Managing Access Permissions

Share Accounts with Users/Groups

You can share an individual account with any user(s) and/or user group(s). To share a single account, navigate to **Accounts** section in the GUI, click the required account, click the **Share** tab.

1. You can search and add the users and groups with whom the account must be shared.

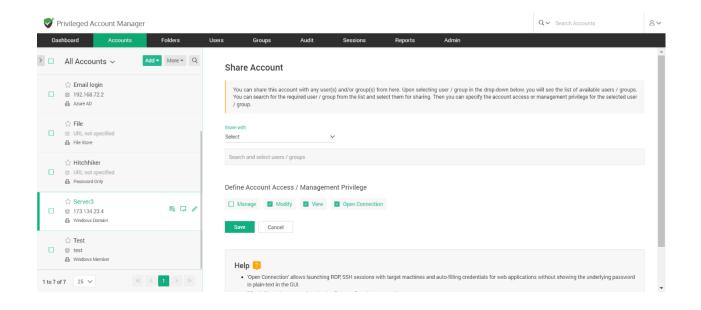
- 2. You can search for either users or groups by selecting User or Group from the drop-down menu named **Share with**.
- 3. Then you need to choose the required users and groups from the dropdown list.
- 4. Once you select the users and groups, you need to select the level of access permission they get.

There are four permission levels with which you can share an account:

- **Open Connection** allows launching RDP, SSH sessions with target machines and auto-filling credentials for web applications without showing the underlying password in plain-text in the GUI.
- **View** allows the user to view the details as well as the password.
- **Modify** allows editing the password.
- **Manage** grants all privileges and is like concurrent ownership.

Launching Connections without revealing the Credentials

Securden provides the option to share accounts without disclosing the underlying passwords. You can grant such a permission by choosing **Open Connection** permission while sharing the account. In such cases, users will be able to launch direct connections with the computing resources without knowing the password.



How to modify share permissions?

The granular permissions granted to a user, or a group can be recast in the case of changes in work requirements. This step is a one click process to modify the allotted management privileges. Click on the **Share** tab in the right pane of the **Accounts** section.

Da	shboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin	
	All Accounts 🗸 🛛	Add More Q	Details	Share Approval V	Workflow Depende	encies History F	eport Settings		
	 ☆ Administrator ≋ sec-build-1.securden.aws.con ∰ Windows Member 	n 📵 🗔 🥒	٩	C Share Accour	Remove Share	Manage	Modify	Showing 1 to 1 of 1 View	25 ✓ Open Con
	 ☆ Administrator © sec-demo-2k16,SECURDEN.A[®] ֎ Windows Member 	WS.COM		A Chris R	Edit Share	×	×	×	V
	 ☆ Administrator ⊗ sec-test-2k19-1.SECURDEN.A[*] i Windows Member 	WS.COM	×						
	☆ Administrator SEC-TEST-2K19-2.SECURDEN Windows Member	AWS.COM	Show	ring 1 to 1 of 1 25	\sim			~~ ~	1

Click on the **Username** and to the right of the field, click on the **Edit Share** option. In the window that opens, you can redefine the account access modes by selecting the required permission. Then click on the **Save** button.

How does Securden trace accounts shared at multiple levels?

In some instances, an account might be shared to the same user at the user level and at the folder level. When an account is shared at multiple levels, Securden follows the principle of least privilege to assign the required account privilege to a user.

When sharing occurs at multiple levels, at times, you might want to check how the sharing has taken effect – what level of access is a user getting to an account.

Securden provides a report that helps you trace all the levels in which the account has been shared. It tells you the share permission that is effective at present and shows all the other share permissions disregarded as per the least privilege principle.

You may use **Reports >> User Access Report** (OR) **Reports >> Account Access Report** for this purpose.

If you are taking a User Access Report, click the name of the user who has access to an account you want to verify.

Dashboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
User Access Report										< Bac
	ule Export									
Access Snapshot										
Q C III									Showing 1 to 5 of 5	25 🗸
Username 🌣	Login Name			Role		Email		Doma		
Destro Shax	destro			Super Administrato		destro@gm	ail com	Local		
	destro				PT			Local		
Frankel Lampard	Frank			Account Manager		frenkid@gm	ail.com	Local		
Jonathan Ridge	John R			Administrator		john@gmail	.com	Local		
Perry Theplat	Perry			Account Manager		perry@pree	/.com	Local		
Securden Administrator	admin			Administrator		localadmin(@securden.com	Local		
									«< < 1	> >>

Then click the required account name. You will see a pop-up that shows **Trace the sharing mechanism**.

Privileged Account	t Manager					Q V Search Accounts	8~
Securden Administ	ccounts Folders trator vrt > Securden Administrator		s actually taken effect. This report helps you tran ne share permission that is effective at present a			< Back	
Access Details		The specific sharing level	that has taken effect:	. 1			
Q C Account Title ©	Account Address	Account owner Account Title & Server3	Username & Securden Administrator	Share Type Manage	. 1	Showing 1 to 6 of 6 25 × Folder Path	-
Domain Admin Email login	192.164.23.1	This account has been sh	ared at the following levels too. These	levels have been disregarded:	1		
File Hitchhiker		Folder owner Folder Name Fruit	Username 🛆 Securden Administrator	Share Type Manage	- 1		
Server3 Test	173.134.23.4 test	~	~	v v	v	Fruit	
Showing 1 to 6 of 6	25 ~					« < 1 > 1	

It will tell you how the user is getting the access. Based on this finding, if needed, you would be able to take corrective action.

Synchronization of Groups in AD with Securden

Let us take an example to understand this feature in Securden. Consider the following scenario:

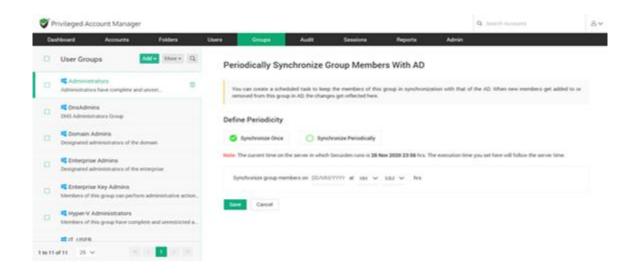
You have shared an account with a group imported from AD. The group originally has only 10 members. A new user is added to the group in AD and now the members total up to 11. Will the 11th member automatically get the access permissions associated with the group?

When a new member is added to a user group in Securden, they automatically gain access to all resources shared with the group. However, when the user is onboarded in AD and not explicitly added to the group, this cannot be achieved. To fix this, you need to configure periodic synchronization of groups with AD.

You can keep the members of this group in synchronization with that of the AD. When new members get added or removed from this group in AD, the changes get reflected in Securden without requiring any manual intervention.

Navigate to Groups >> Select the required group >> Members >> Schedule Sync section in the GUI to perform this step.

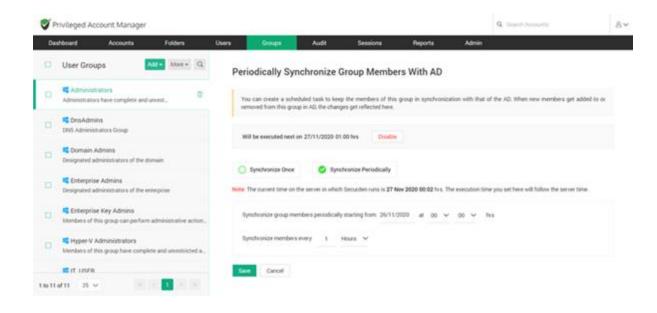
You can either schedule the synchronization activity for a one-time run or create scheduled tasks to run periodically and ensure regular synchronization.



For periodic synchronization, you can choose the start time, and set the synchronization interval.

Once enabled, you can navigate to the **Schedule Sync** section to view the next planned schedule.

Once synchronization is configured, whenever a new member is added to a group in AD, the change will be automatically reflected in Securden. Subsequently, all access permissions associated with the group will be inherited by the user.



Remove Share Permission

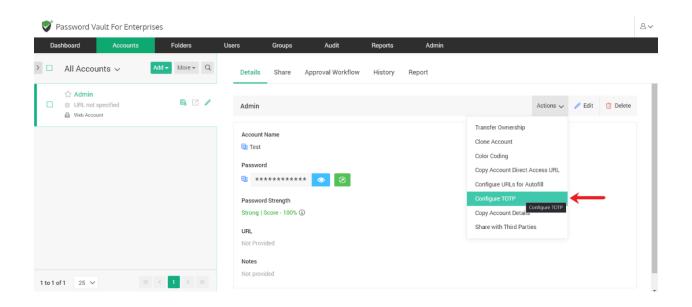
If you want to revoke the share permission from a user or group of users, navigate to the **Share** panel, select the users or groups for whom you want to terminate the account access, and then, click the **Remove Share** button.

•	Privileged Account Manag	Folders	Users Groups	Audit	Sessions	Reports Admin	Q∨ Sear	ch Accounts
	All Accounts ~	Add More Q	Details Share	Approval Workflow		History Report Settings		
	H Windows Domain							
	☆ Email login ⊗ 192.168.72.2 晶 Azure AD		Q C Share	Account Remove Share	Manage	Modify	View	Showing 1 to 4 of 4 25 V Open Connection
	🕁 File		Frankel La	impard	~	×	~	~
	W File ⊗ URL not specified ♣ File Store		A Jonathan	-	×	×	×	с. С
	☆ Hitchhiker ⊗ URL not specified ♣ Password Only		A Terry Cruis		×	× •	~	~
	☆ Server3	B 🖓 /	Showing 1 to 4 of 4	25 🗸				« < 1 > »
	☆ Test ⊛ test	l						
to 7 o	f7 25 🗸 🚿	< 1 > »						

Configuring Shared MFA Tokens

Securden readily integrates with TOTP-generating applications like Google Authenticator, Microsoft Authenticator, and others using either secret keys or QR codes. After integrating, the TOTP will be generated in the Securden interface.

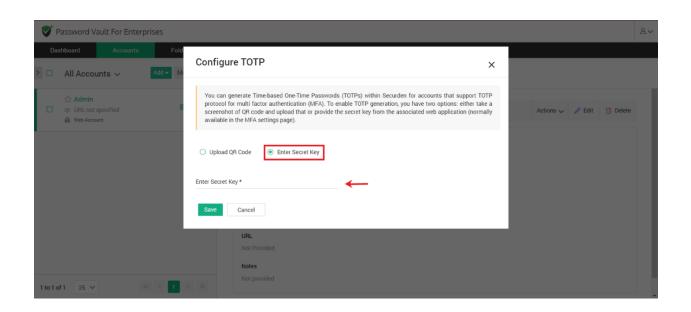
You can share MFA-enabled accounts with users and they will be able to use the displayed TOTP for authentication. To configure TOTP generation in Securden, navigate to **Accounts** >> **Actions** >> **Configure TOTP**.



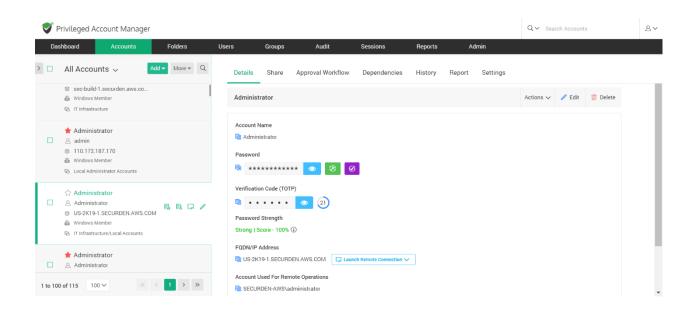
In the window that opens, you need to select between the two options available. You can configure TOTP generation by using either a QR code or the secret key from the MFA application. If you choose to use a QR code, you need to upload an image containing the QR code. Select **QR code** and click on **Browse**. Select and upload the required image. Click **Save**

V F	assword Vault For Enterp	rises		8~
Da	shboard Accounts	Fold		
> 🗆	All Accounts \checkmark	Add 👻 Mi	Configure TOTP ×	
	☆ Admin ⊗ URL not specified 础 Web Account		You can generate Time-based One-Time Passwords (TOTPs) within Securden for accounts that support TOTP protocol for multi factor authentication (MFA). To enable TOTP generation, you have two options: either take a screenshot of QR code and upload that or provide the secret key from the associated web application (normally available in the MFA settings page).	
			Upload QR Code Enter Secret Key Upload an image with QR code * Choose a file Browse	
		Ŀ	Save Cancel URL Not Provided Notes	
1 to 1 o	f1 25 🗸	c < 1 >		

 If you choose to use a secret key, you need to find and obtain the secret key from the MFA app. Select Enter Secret Key and input the secret key. Click Save.



Once TOTP generation is configured, your TOTP will be generated and displayed in the accounts tab.



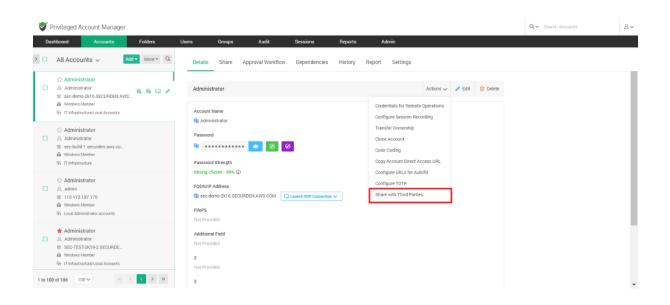
When you share the account with a user or a group, the associated TOTP will be shared alongside the credentials.

Share Accounts/Passwords with Third Parties

Any user in Securden can share accounts owned by them/shared with them to a third-party user outside the organization. They need the email addresses of the third parties who need access to the account.

Pre-requisite: To send accounts to external user emails, you need to configure the email server settings which are available under **Admin** >> **General** >> **Mail Server Settings**.

To share an account, navigate to Accounts >> Select the account to be shared >> Actions >> Share with Third Parties



This opens the GUI shown below:

Privileged Account Manager	
Dashboard Accounts Folders All Accounts ~ Add ~ More ~ Q	Users Groups Audit Sessions Reports Admin
C Administrator Administrator Sec demo 2416 SECURDELAWS_ Wrokow Neher Ri If sitestructure/Local Accounts	Share Manage Share You can share accounts with third parties. The email addresses added below will receive a unique URL to access the account via email. Hote: The termination date can only be up to 14 days from the activation date
☆ Administrator & Administrator see baild 1.securden.aws.co # Wrokens Member Qs. IT Ishtastructure	Email addresses (comma separated)* mohammedarbasggmail.com. timothygreen@yahoo.com Note: The current time on the server in which Securden runs is 20 Apr 2023 06:43 hrs. The activation and expiry of the shared link will be based on the server time.
☆ Administrator & admin % 110.172.187.170 # Wrokows Memore Qs. Local Administrator Accounts	C Activate Now Activate Later
Administrator Administrator SecTEST2X192_SECURDE Wholess Member Of If their structure Local Accounts	Reset password after access termination ① Share Cancel

Each account is shared with an access timeframe to the third-party users. You need to specify the following details before sharing the account:

• **Email addresses:** You need to specify the email address of the third-party user. If you are sending this account to more than one recipient, you must specify their email addresses in a commaseparated format.

• Activate Now: You can select this option to allow the third-party to access the account immediately after sharing it.

• Activate Later: You can select this option to allow the third party to access the account at a specified date and time.

V F	Privileged Account Manager	r								Q ← Search Accounts	8~
Da	shboard Accounts	Folders	Users Groups	Audit	Sessions	Reports	Admin				
	All Accounts $ \smallsetminus $	Add More Q	Share with Thir	d Parties <a>Back							
	☆ Administrator 요 Administrator 응 sec-demo-2k16.SECURDEN.AW 础 Windows Member 명 IT Infrastructure/Local Accounts	NS 🗟 🗟 📿 🖌	Share Manage S You can share accoundate.		mail addresses added t	below will receive	a unique URL to acces	s the account via email. Note:	The termination dat	te can only be up to 14 days from the activatio	n
0	습 Administrator A Administrator 을 sec-build-1.securden.aws.co 과 Windows Member 명 IT Infrastructure		Email addresses (comma sepa mohammedarbaz@gmail. Note: The current time on	com, timothygreen@yahoo		06:43 hrs. The ac	tivation and expiry of th	e shared link will be based on t	he server time.		
0	☆ Administrator A admin © 110.172.187.170 ঊ Windows Member P5 Local Administrator Accounts		Activate Now	Activate Later	10 V hrs						
	Administrator Administrator Sec-TEST-2K19-2.SECURDE Windows Member S IT Infrastructure/Local Accounts		Terminate access on Reset password after a	25 Apr 2023 at 23	✓ 10 ✓ hrs						
1 to 10	0 of 106 100 ~ «		Share Cancel								v

• **Terminate access:** You must specify when the account access should be revoked from the third-party. Specify the date and time after which they will be unable to access the shared account.

• **Reset password after access termination:** Enabling this checkbox will ensure that the password of the remote machine is changed after the third-party access is revoked.

Once you have set up the access duration and password reset configurations, click on **Share** to send the account as a HTML link to the third party.

Dashb	ooard Accounts Folders	Users Groups	Audit	Sessions	Reports	Admin				<u> </u>
	Owned Work Acc ∨ Add ▼ More ▼ Q	Share with Third	Parties	ack						
	Administrator Administrator Administrator US2K19-1.SECURDENAWS.COM Windows Nember	Share Manage Sh You can share accounts		email addresses ad	ded below will receive	a unique URL to acce	ss the account via email. No	ote: The termination da	te can only be up to 14 days from the a	ctivation date.
	27 Administrator B. Administrator B. sec-built-1.securden.avvs.co B. Windows Memory B. Windows Memory D. IT Infrastructure	Email addresses (comma separa timothygreen@yahoo.com		urden runs is 20 Apr :	2023 10:11 hrs. The a	tivation and expiry of	f the shared link will be base	d on the server time.		
	Administrator Administrator Cathinistrator Cathinistrator Cathinistrator Cathinistrator Cathinistrator Cathinistratorereal Ca	Activate Now Terminate access on	O Activate Later	MM ~	hrs					
	Administrator Administrator Science 2002 Security 2002	Reset password after an Share Cancel	ccess termination (j)							

Terminating Third Party Access

You can see which external users have shared access to this account from the Manage Share tab.

V 1	Privileged Account Manager					Q√ Se	arch Accounts
Da	shboard Accounts Folders	Users Groups A	udit Sessions	Reports Admin			
> 🗆	Owned Work Acc V Add V More V Q	Share with Third Parti	es < Back				
	C: Administrator A Administrator © USX10-J.SECURDENLAWS.COM ∰ Windows Network C: IT Infrastructure/Local Accounts	Share Manage Share	s Activate access on	Terminate access on	Status	Shared By	Showing 1 to 1 of 1 25 V
0		shyam@securden.com	20 Apr 2023 10:08	25 Apr 2023 01:10	Yet to Activate	Securden Administrator	0
0	Administrator Administrator Administrator Bedetat2X19-1SECURDEN Wrodyse Netwerk D: If InfrastructureTechnical Servic	Showing 1 to 1 of 1 25 🗸					K (1) 9
0	Administrator Administrator Administrator Administrator Bit Stores TextParts 2.550URDE Wrodows Member In If IntrastructureLocal Accounts						
1 to 10	0 of 104 100 √ ≪ < 1 > ≫						

If required, you can select the email of the user and **Terminate Access** to the account. This will end their access regardless of the time-duration defined.

How external users access the shared account

The external user who receives the shared account will find a link in their email id as shown below.

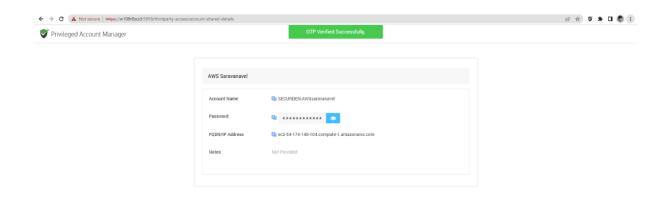
Password shared with you through Securden	
Securden has shared with you a password for temporary access. Please click the link below to access the details: https://W108R8ZCS3:5959/thirdparty-access? thirdparty_id=MjAwMDAwMDAwMTc4Nw==&auth_token=6FTRxutmi80Ni3QQJ	
The link access will activate on 20 Apr 2023 15:17 The link access will terminate on 21 Apr 2023 01:15	
© 2021 Securden, Inc. All rights reserved.	

Upon clicking the link, they will be taken to a Securden OTP verification page. This OTP can be found in the inbox of the external user. ← → C ▲ Not secure | https://w108r8zcs3:5959/thirdparty-access/otp-page



B \$ \$

On entering the OTP and clicking **Verify**, they will be able to access the account shared with them.



They can click the **View password (eye icon)** to see the hidden password.

When the duration of access expires, the account access is revoked, URL becomes invalid, and the password of the machine is reset.

Copy Account Direct Access URL

You can share the account to a user with a direct access URL. The user to whom you are sending the URL should have a user account on Securden and have at least an open connection privilege to access the account.

Navigate to Accounts >> Details >> Actions >> Copy Account Direct URL

Just-in-time Access through Approval Workflows

You can establish an additional layer of security for sensitive accounts by enforcing your users to go through approval workflows. This also serves as just-in-time access provisioning mechanism. Whenever the passwords of such accounts are to be accessed, users will have to raise a request and select administrators or account managers, who are designated as **Approvers** and will grant time-limited access. At the end of the usage period, the password will be automatically reset.

This feature comes with adequate provisions to handle various scenarios such as obtaining permission in advance, granting automated approvals, etc.

Configuring approval workflow

Navigate to the Accounts section in the GUI, click the required account, click the **Approval Workflow** tab in the right pane.

V 1	Privileged Account Manage	r						Q ← Search Accounts	8~
Da	shboard Accounts	Folders	Users Groups	Audit	Sessions	Reports	Admin		
> □	All Accounts ~	Add More Q	Details Share	Approval Workflow	History	Report Settings			
	☆ Domain Admin ≋ 192.164.23.1 륿 Windows Domain							One or more administrators will review the re sed after approval. All these steps follow a w	
	☆ Email login ≋ 192.168.72.2 聶 Azure AD	B. 13 /	Designate Appro	overs of Securden administrator	s who can approv	password access reque	ests from users.		
	☆ File 응 URL not specified 뤏 File Store		Search user/use						
	☆ Hitchhiker 좋 URL not specified ♣ Password Only		Add Second Level Add Exclusion List Configure Automa	t					
	☆ Server3		 All times duri Save 	ng the day ု 🔘 Between	00 ~	00 V and 00	~ 00 ~		
1 to 7 c	f7 25 ∽ ≪	< 1 > »							

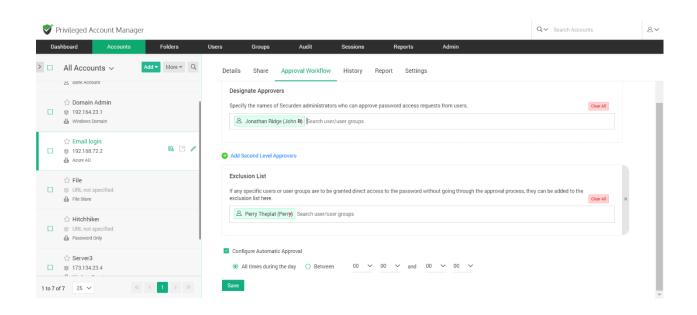
Designate Approvers

Securden lets you designate up to 3 levels of approvers for each account. You need to specify the names of the users/user groups who can approve the password requests for the selected account.

Das	hboard Accounts	Folders	Users Groups Audit Sessions Reports Admin	
	All Accounts V	Add More Q	Details Share Approval Workflow History Report Settings	
	☆ Domain Admin © 192.164.23.1 ♣ Windows Domain		Designate Approvers Specify the names of Securden administrators who can approve password access requests from users. A. Jonathan Ridge (John R) Arr Team) Secrit user/user groups	Clear All
	 ☆ Email login ※ 192.168.72.2 ▲ Azure AD 	B, Z /		
	Grile URL not specified File Store		Second Level Approvers If you configure this, the access request will go to the second level after approval by the first level of approvers. A Securden Administrator (admini) Search user/user groups	Clear All ×
			Third Level Approvers	
	☆ Server3 ≋ 173.134.23.4		If you configure this, the access request will go to the third level after approval by the second level of approvers.	Clear All ×

Exclusion List

If you wish to exclude certain users from going through the approval workflow to gain access to the account, you can specify the user/user group under the exclusion list. The added users will be granted direct access to the password.



Configure Automatic Approval

If you have certain working hours where you want to allow users to get instant access to an account bypassing the approval workflow, automatic approval of access request can be configured. You may specify the time interval in which all access requests will be automatically approved.

Managing Access Requests

Navigate to **Admin >> Approval Workflow** section in the GUI. You will receive notifications through email when someone raises a request.

 Before verifying the request, you may also verify the justification provided by the requester. If it is satisfactory, you can go ahead and approve.

Privileged A	ccount Manager						Q.~	Search Accounts	
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin	
Admin > Password	i & Privilege Requests								
Password 8	& Privilege Requ	uests							
	e, reject and track the list evation / password reques		m here. By default,	the requests pending a	pproval are li	sted below. Use the filter	to view historic da	ta. You can also use t	his GUI to termina
Filters: All Rec	uests To Be Approved	d To Be Used	In Use	G	Refresh	Q Search Requester,	Computer, Account	t or Reason	
🖵 Kevin Miller	r (kevin) requested acco	unt access							
Account	R	eason		Start Time		End Time			
Demo Account	F	or Testing		🕑 03 Jun 2021 10:20	1	() 03 Jun 2021 10:	40	AP	prove Reject

- When approving, you have the option to approve it **as it is** for the time duration requested by the user OR you can grant access at any time duration you deem fit. You may also record your comments in the **Reason** field for reference in the future.
- You also have the option to randomize the underlying password after use by the user by selecting the option **Reset Password After Use**.

- Once you approve the request, the entry moves to the **To Be Used** section. That means the user is yet to start using the access.
- Once the user starts using the access, the entry moves to the **In Use** section.
- Even after approving a request, you can still control and edit access parameters irrespective of the entry being in the **To Be Used** or **In Use** section.
- You can terminate ongoing access from the **In Use** section by clicking on the **Revoke Access** button.

Important Note:

- Once a user starts accessing the application after receiving approval, concurrent controls kick in. No other user, including the administrator, super administrator, and account owner, would be able to access the application until the access is surrendered or terminated, or expired. If another user attempts to access the account in use, they will see the message **In exclusive use by another user**.
- If the periodic password reset is configured for an account and at the time of the reset execution the account is used by a user, in this scenario the password reset task will not be executed for the account.

Accounts Report

This section details all the usage, access, and activities related to a particular account and depicted in the form of reports. The reports can be downloaded in the form of PDF, CSV, and XLSX.

Details that the report captures:

Password usage statistics - Data shown here includes password retrievals, remote connections launched and password auto-fills on websites.

Account usage statistics – The data in this report highlights the number of times the selected account has been used and by which user.

Access Details – A list of all the users who had accessed the account.

Account Activity – Lists out all the activities performed on the account by users.

Export Report – Export the account report in PDF, CSV, and XLSX file formats.

Note: If you choose to view a consolidate list of who has access to a particular account or activities performed on any particular account, navigate to **Reports >> Account Access or Reports >> Account Activity.** You will get a complete summary of all account related details and you can create a scheduled task to periodically export the report in PDF or CSV or XLSX format. The link to download the report will be emailed to the specified recipients.

Account Settings

This section lets you configure various settings specifically for an account.

Ś	Privileged Account Manager										Q.~	Search Accounts	٤~
Da >	shboard Accounts Service Accounts ~ A	Folders	Users Details	Groups Share	Audit Approval Workflow	Sessions Dependencies	Reports History	Ad Report	min Settings				
	 ☆ Administrator Administrator US-2k19-1.SECURDEN.AWS Windows Member IT Infrastructure/Local Accounts 		You ca	n configure vario	ous settings specifical	ly for this account.							
	Administrator Administrator Administrator SEC-TEST2K19-2 SECURDE Windows Member I'l Infrastructure/Local Accounts			Assets		Ticketing System							
	★ SECURDEN-AWS\administra Administrator 172.31.1.11 Windews Domain -None-	L B. B. G. /											
	☆ SECURDEN-AWS\anish 요 anish @ 172.31.1.11 료 Windows Domein □ IT Infrastructure/Technical Servic												
	☆ SECURDEN-AWS\bala	< 1 > >>											

Assets

Lists down all the computers and other IT assets to which remote connections could be launched using this domain account.

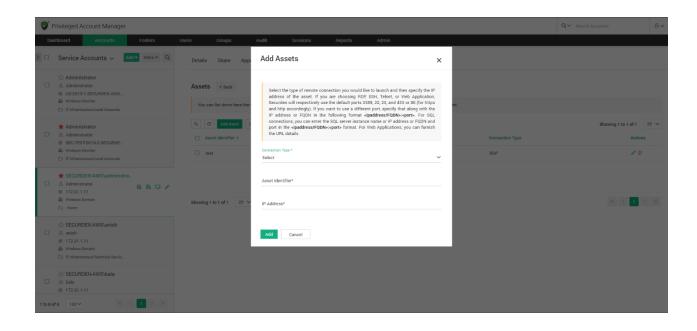
Select the account from the left-hand side of the UI. Navigate to **Settings** >> **Assets**.

You can add or delete assets from this part of the GUI.

V F	rivileged Account Manager								Q ~ Search Accounts	8
Da	shboard Accounts	Folders	Users Group	s Audit	Sessions Re	ports Admin				
	Service Accounts 🗸 🗚	More 👻 Q	Details Share	Approval Workflow	w Dependencies Hi	story Report Settings	-			
	 ☆ Administrator Administrator © US-2K19-1.SECURDEN.AWS 		Assets < Bar	k						
	Windows Member IT Infrastructure/Local Accounts		You can list dow	n here the computers and	other IT assets to which remot	e connections could be launched u	using this domain account.			
	🛨 Administrator		Q Ø Add	Asset Delete Assets					Showing 1 to	25 ∨
	Administrator SEC-TEST-2K19-2.SECURDE		Asset Identif	ier ‡		Asset		Connection Type		Actions
	Windows Member IT Infrastructure/Local Accounts		L test			172.31.1.12		RDP		/ 1
	SECURDEN-AWS\administra Administrator 172.31.1.11									
	Windows Domain		Showing 1 to 1 of 1	25 🗸					~~ ~	1 > >>
0	습 SECURDEN-AWS\anish & anish									
	© 172.31.1.11									
	IT Infrastructure/Technical Servic									
	습 SECURDEN-AWS\bala 요 bala									
	₿ 172.31.1.11									
1 to 6 o	f6 100 ✓ 《 〈	1 > >>								

Add Assets

Click on the **Add Asset** button. A small popup window will appear. You must provide the type of connection you want to launch to this asset (RDP, SQL, etc.) and its IP address.

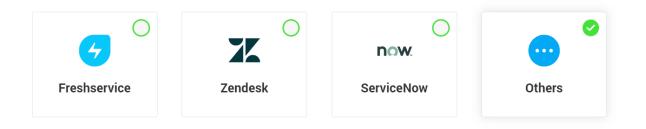


To add an asset, Select the type of remote connection you would like to launch and then specify the IP address of the asset. If you are choosing RDP, SSH, Telnet, or Web Application, Securden will respectively use the default ports 3389, 22, 23, and 433 or 80 (for https and http accordingly). If you want to use a different port, specify that along with the IP address or FQDN in the following format <ipaddress/FQDN>:<port>. For SQL connections, you can enter the SQL server instance name or IP address or FQDN and port in the <ipaddress/FQDN>:<port> format. For Web Applications, you can provide the URL details.

If you want to dissociate the asset from the domain account, you can select the asset and click on **Delete Assets**.

Enforcing Ticketing System Validation

Securden integrates with web-based ticketing systems. The integration helps trace specific activities like password retrieval in Securden to corresponding entries in the ticketing system. Securden validates the ticket ID provided by users either by matching the RegEx pattern of the ticket ID or directly accessing the ticketing system through API calls to see if there is a matching ticket found to be open. Out of the box, Securden integrates with Freshservice, Zendesk, and ServiceNow. However, you can integrate with any ticketing system through RegEx pattern validation.



Note: After configuring ticketing system here, you need to enable it at the account/folder level for the required accounts/folders.

Enabling it at the account/folder level

You can enforce ticket validation for specific accounts through integration with ticketing systems. To enforce ticketing system validation, select the account from the left-hand side of the UI. Navigate to **Settings >> Ticketing System**.

Once enforced, users will have to provide a valid ticket ID to retrieve the password.

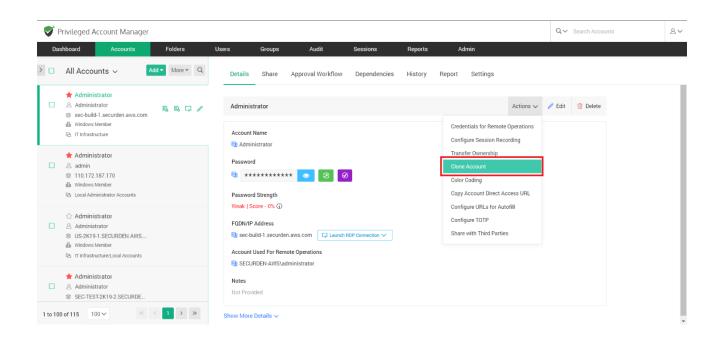
You can exclude specific users or specific groups from ticket validation enforcement. That means, even if ticket validation is enforced, excluded users or groups will be exempted from supplying the ticket ID while retrieving the password.

Privileged Account Manager	Q~ Sea	arch Accounts	8
Dashboard Accounts Folders	Users Groups Audit Sessions Reports Admin		
All Accounts Add More Q	Details Share Approval Workflow Dependencies History Report Settings		
 ★ Administrator Administrator Secchald-1 securden aws.com Windess Member Trinfastucture 	Ticketing System Reak You can enforce ticket validation for specific accounts through integration with ticketing systems. Once enabled, users will have to provide a valid ticket ID to retrive the password. You can disable ticket validation for specific accounts too. Once enabled, users will not be asked to provide a ticket ID to retrieve the password.		
Administrator Admini II.0.172.187.170 Windows Member Co. Local Administrator Accounts	Ticket validation is already enabled for this account. Disable Exclude Users/Groups		
Administrator Administrator Administrator Uszk191.5E0/R0EN/AWS Windows Member Trinfastructure/Local Accounts	You can exclude specific users or specific groups from ticket validation enforcement. That means, even if ticket validation is enforced, excluded users or groups will be exempted from supplying the ticket to while retrieving the password. Specify below the users and groups to be exempted from ticketing system enforcement. Search user/user/groups.		
Administrator Administrator SciTEST2x(19.2.5ECURDE Windows Member To Infrastructure/Local Accounts	Exclude Close		
Administrator Administrator sec-demo-2k16.SECURDEN			

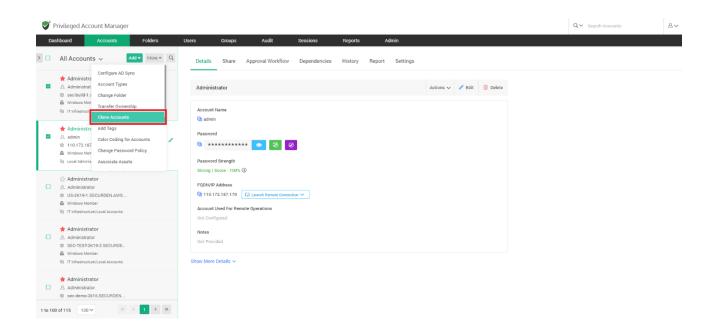
Account Actions

Clone Account

You can create copies of an account with all the attributes intact. The cloned accounts will carry the suffix **copy**. You can rename the accounts later if required. Multiple clones of the accounts with all the attributes intact can be created. Navigate to the account you want to clone. Select **Actions >> Clone Account.**



Alternatively, if you want to clone multiple accounts at once, you may select the required accounts and go to **More** >> **Clone Accounts**.



Select the number of copies you need from the drop-down list and click **Clone**.

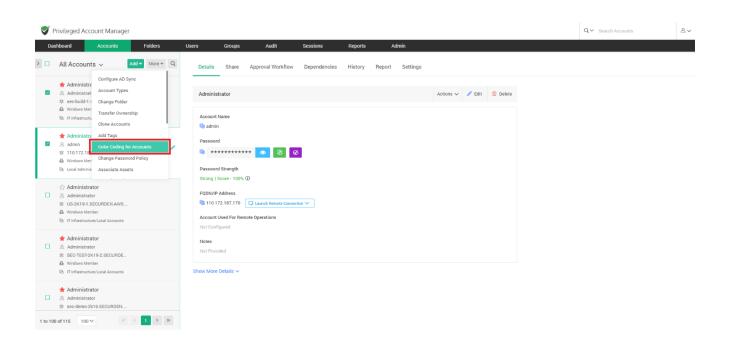
Privileged Account Manager		Q Y Search Accounts
Dashboard Accounts Folders	Users Groups Audit Sessions Reports Admin	
All Accounts v Add v More v Q	Details Share App Clone Accounts X	
Administrator Administrator See build 1 security of a s	Administrator Vou can create copies of the selected accounts with all attributes intact. The cloned accounts will carry the suffix copy. You can rename the accounts later if required. Exit Delete Number of Copies 1 ~	
Administrator A admin U10172 107170 Windows Semite Go Local Administrator Accounts	Password Password Strength	
Administrator Administrator S. Administrator US-2NS-1-SECNENTANS Windows tember G. If Inframeture/Local Accounts	Store Score - 10% FODN/IP Address FODN/IP Address D 110.172.187.170 C Launch Remote Connection Account Used For Remote Operations Not configurate	
Administrator Administrator Science Stratige Section Science Stratige Section Science Stratige Science Stratige Section Science Science Section Science Science Section Science Scien	Note Provided Show More Details ~	
Administrator Administrator Sec demo 2kt 6 SECURDEN 1 to 100 of 115 100 V C L A Administrator C L		

Color Coding

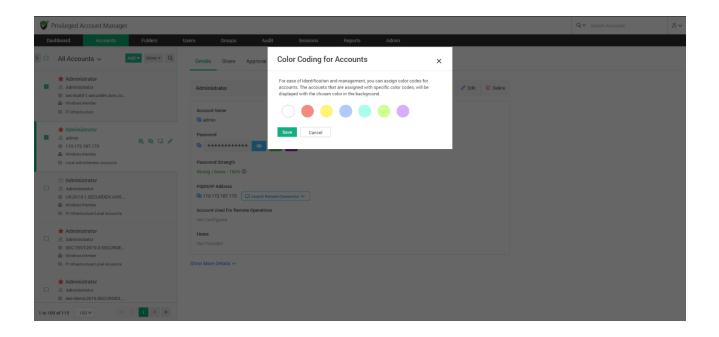
Designed for ease of identification and management, you can assign a color code for an account. Once a color is selected, the account will be displayed with the chosen color in the background. Select the account that you want to color code. Navigate to **Actions >> Color Coding.**

Dat	shboard Accounts	Folders	Users Groups	Audit	Sessions	Reports	Admin				
	All Accounts ~	dd▼ More▼ Q	Details Share	Approval Workflow	Dependencies	History	Report Settings				
	Administrator Administrator Administrator sec-build-1 securden aws.com	6 8 7 /	Administrator					Actions \checkmark	🥒 Edit	📋 Delete	
	晶 Windows Member 码 IT Infrastructure		Account Name				Credentials for Remote Configure Session Reco				
	 ★ Administrator △ admin ※ 110.172.187.170 ▲ Windows Member 		Password	*** 💿 🗵	0		Transfer Ownership Clone Account Color Coding				
	집 Local Administrator Accounts		Password Strength Weak Score - 0% (1)				Copy Account Direct Act				
	☆ Administrator A Administrator 응 US-2K19-1.SECURDEN.AWS ֎ Windows Member 권 IT Infrastructure/Local Accounts		FQDN/IP Address sec-build-1.securd Account Used For Rer SECURDEN-AWS\s	note Operations	RDP Connection 🗸		Configure TOTP Share with Third Parties				
	★ Administrator Administrator SEC-TEST-2K19-2.SECURDE		Notes Not Provided								

Alternatively, if you want to color code multiple accounts, you may select the required accounts and go to **More >> Color Coding for Accounts**.

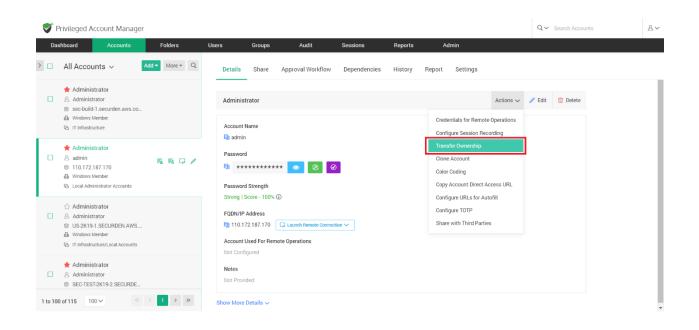


Select the desired color and click Save.



Transfer Ownership

You can transfer the ownership of a particular account to any of the users in Securden. In such an event, the transferer will lose access to the accounts and folders already owned and the transferee will get complete ownership of those accounts and folders. Select the required accounts and navigate to **Actions >> Transfer Ownership**.



Alternatively, if you want to transfer ownership of multiple accounts, you can select the required accounts and navigate to **Accounts >> More >> Transfer Ownership**.

💙 Privileged Account Manager		Q 🗸 Search Accounts	8~
Dashboard Accounts Folders U	sers Groups Audit Sessions Reports Admin		
All Accounts Add More Q Configure AD Sync	Details Share Approval Workflow Dependencies History Report Settings		
Administre Account Types Secobuild-1: Change Folder Transfer Ownership Go If Infrastrue	Administrator Actions 🗸 🥒 Edit 🔮 Delete		
Clone Accounts Clone	€ admin Password € ************		
	Sotong Local - 100% (J) FQDMUP Address Right 1072.187.170 Local Learnin Remote Connection Account Used For Remote Operations Not Configured		
Administrator Administrator SEC-TEST20140-22ECURDE Windows Member GI TInfinistructure/Local Accounts	Notes Not Provided Show More Details ~		
Administrator Administrator Beedemo2116.8ECUNDEN 1 te 100 of 115 100 v 《 (1 >)>			

Select the user to whom the accounts need to be transferred and click **Transfer**.

P 🏷	rivileged Account Manage	r							Q ← Search Accour	8~
Das	hboard Accounts	Folders	Users	Groups Audit	Sessions	Reports	Admin			
> 🗆	All Accounts ~	Add • More • Q	Details	Transfer Ownership			× ettin	ings		
	Administrator Administrator Administrator sec-build-1.securden.aws.co Windows Member Infrastructure			You can transfer the ownersh listed below. Select the user to transfer	ip of the selected acco		ers	Actions 🗸	🖋 Edit 📋 Delete	
	Administrator A admin admin 10.172.187.170 Windows Member Ca Local Administrator Accounts	B B C /	Passw Password -			~				
	Administrator Administrator US-2K19-1.SECURDEN.AWS Windows Member R IT Infrastructure/Local Accounts		FQDN/IP A	2.187.170 E ₂ ? Launch Remote Conn sed For Remote Operations	ection V					
	Administrator Administrator SEC-TEST-2K19-2.SECURDE		Notes Not Provide							
1 to 100	of 115 100 ~ «	< 1 > >>	Show More D	etails v						

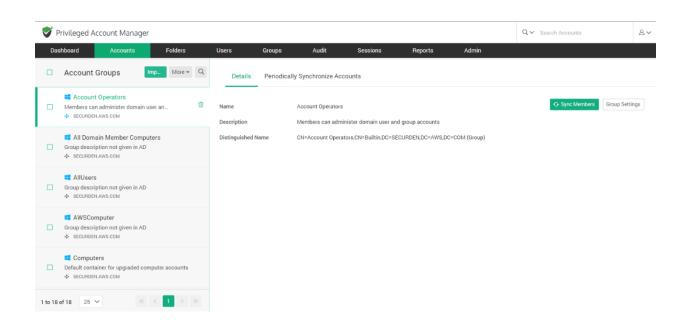
Performing Operations on Multiple Accounts

You can perform various operations and customization on accounts stored in Securden. You have the option to perform operations on individual accounts or in bulk. If you would like to carry out operations on multiple accounts at once, you can navigate to **Accounts >> More** and do so.

Configuring AD Sync

You can synchronize the accounts in AD with Securden manually or configure periodic synchronization. To manually synchronize it, navigate to **Accounts** >> More >> Configure AD Sync.

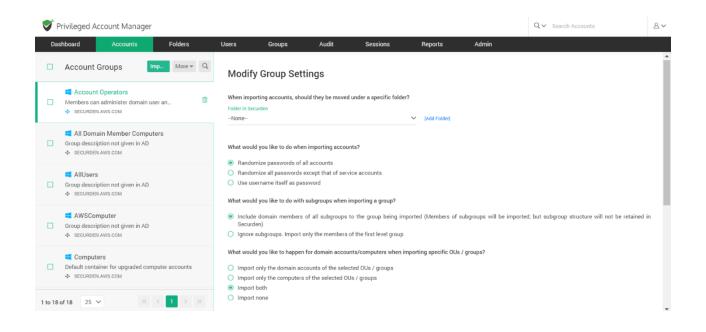
On the left, you will find the Account Groups present in AD. On the right side of the interface, you have two tabs **Details** and **Periodically Synchronize Accounts**.



Details

Under the **Details** tab, you have the options to sync members and view the group settings. Once you click **Sync Members**, the discovery process begins and fetches the domain accounts that are discovered by Securden. The process of fetching dependencies will take a while to complete and will be automatically populated after completion.

On clicking the **Group Settings** button, you will get to modify the group settings. You can select the required choices and click **Save**.

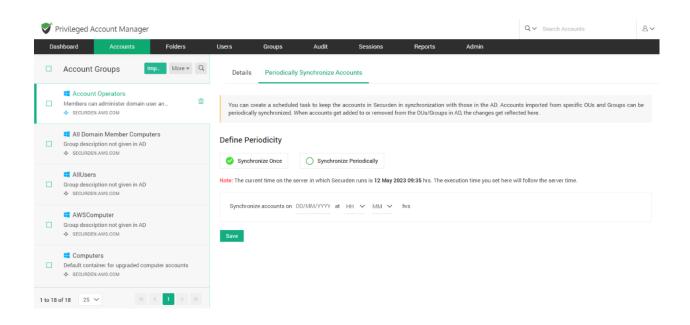


Periodically Synchronize Accounts

You can create a scheduled task to keep the accounts in Securden in synchronization with those in the AD. Accounts imported from specific OUs and Groups can be periodically synchronized. When accounts get added to or

removed from the OUs/Groups in AD, the changes automatically get reflected in Securden.

You have two options, **Synchronize Once** and **Synchronize Periodically**. If you want to synchronize once, you need to mention the date and time at which the sync should occur and click **Save**.



If you want to synchronize periodically, you also need to mention the frequency of synchronization in days. After entering the required inputs, click **Save**.

V F	Privileged Account Manager							Q ∽ Search Accounts	8~
Da	shboard Accounts Folders	Users	Groups	Audit	Sessions	Reports	Admin		
	Account Groups More * Q	Details	Periodically	/ Synchronize Acco	ounts				
	Account Operators Members can administer domain user an						ith those in the AD. Accour in AD, the changes get reflec	its imported from specific OUs and Groups can ted here.	n be
	 II Domain Member Computers Group description not given in AD ◆ SECURDEN AWS.COM 	Define Peri		Synchronize	Periodically				
	 ■ AllUsers Group description not given in AD ◆ SECURDEN AWS.COM 						ecution time you set here w	ill follow the server time.	
	■ AWSComputer Group description not given in AD ◆ SECURDEN AWS COM	,	e accounts perio e accounts every	, ,	DD/MM/YYYY at	HH V MM V	hrs		
	Computers Default container for upgraded computer accounts SECURDEN AWS.COM	Save							
1 to 18	of 18 25 V 《 < 1 > 》								

Add and Manage Account Types

Account types help identify and classify the accounts being added in Securden. Proper classification comes in handy to carry out various operations such as sharing, remote password resets, reporting, etc. You can also use account types to define specific characteristics like fields for the accounts, specific password policies for the accounts belonging to that type, and so on. Super administrators, administrators, and account managers have the privilege to add custom types, edit and delete existing ones.

You need to define account types separately for **Work** and **Personal** type accounts. The procedure is the same for both.

Creating a new account type

To create a new account type, navigate to **Admin >> Account Management** >> **Account** Types. You need to select between **Work** and **Personal** type account and click **Add Account Type**. Enter a name for the new account type being created. The name you enter here will uniquely identify the type. Adding a description to the type would help further in this aspect.

Privileged A	count Manager								Q ← Search Accounts	8
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
Admin > Account T	ypes > Add Account typ	be								
Add Accour	nt Type									
Name * New Account Type										
Description										
Password Policy Securden Policy		~								
Template (j) Select Template		~								
Primary Fields	3									
Password	Mandatory No		~							
URL	Mandatory No		~							
Identifiers										

Associate a password policy

One of the most important aspects of Account Types is that password policies can only be associated at the account type level. You can create multiple password policies and associate them with different account types. The policy that is associated with an account type will take effect for all accounts that belong to the type.

You may choose from the list of already available policies or create a new policy. Alternatively, if any of the types don't require a password policy to be linked, you may choose the option **Don't link any policy**.

Associate a Template

Securden allows you to perform various remote operations such as password resets on devices. The product comes with certain predefined templates to carry out those operations on various types of devices.

In addition, you can create custom SSH templates to carry out remote password resets on devices that can be connected through SSH such as Linux devices, routers, server hardware, etc.

You can define a command or a sequence of commands to be used for carrying out the password reset activity in the form of a custom template. If the account type you are creating requires support for such remote operations, you may associate the required template in this step.

At present, templates can be associated only at the time of creating the account type. Templates can't be associated while editing the type.

Define the Fields

Accounts in Securden contain various fields such as **Username**, **Password**, **URL** etc. Depending on the type of account, the fields will vary. You might even have some specific account types in your organization that require completely new fields and values. All such requirements can be met at the account types level.

You can define any number of fields required by this specific type and granularly specify if the fields are mandatory (requiring users to compulsorily

fill a value when adding accounts). You can also choose to hide certain default fields.

Privileged Acc	count Manager								Q ← Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
Admin > Account Typ	pes > Add Account type									
Select Template		~								*
Primary Fields										
Password	Mandatory No	``	/							
URL	Mandatory No	``	/							- 1
Identifiers										
Notes	Visibility Show	``	Mandatory No	~						
Tags	Visibility Show		Mandatory No	~						
Account Expiration	Visibility Date Hide	~	Mandatory							
🕂 Add Fields										
Save	el									

Primary Fields

The default **Password** and **URL** fields can't be hidden or deleted, but you can mark if they are to be made mandatory or not.

Identifiers: The **Notes**, **Tags**, and **Account Expiration Date** fields are optional. You can choose to **show** or **hide** any of these fields as required. When you choose to **show**, you can also mark if it has to be mandatory or not.

Additional Fields

You can create any number of customized additional fields as required. To create additional fields, click the **Add Fields** button. When creating additional fields, you have the option to specify the field type - Text, Password, or File Store. While **Text** represents a text field, **Password** helps mask the value from being displayed in plain text. **File Store** type allows you to browse and choose files.

Managing Account Types

You can manage the existing account types from **Admin** >> **Account Management** >> **Account Types** section. The management operations include changing the password policy association, setting any type as the default type, disable a type, enable a disabled policy, editing the nature of various fields, and so on.

From Account Types >> More Actions drop-down,

• You can quickly change the password policy association for any type

• Enable/disable a type. Among the system-defined account types, five types - Web Account, Bank Account, SSH Key, File Store, and License Key cannot be disabled. All other types can be disabled. When you disable a type, the same will not be available for choosing it during account addition.

• Set any type as the **Default Type** (the type which is set as the default type here will be the default selection of account type in the Add Accounts GUI for **Work** account types)

Privileged Account Manager		Cont	tact Technical Support	Get Quote	Q ← Search Accounts	
Dashboard Accounts	Folders	Users Group	os Audit	Sessions Repo	orts Admin	
Admin > Account Types						
Account Types						
Account types help identify and class reporting etc. Super Administrators, A 'Work' and 'Personal' type accounts. Work Personal						
Q C III Add Account Type	Delete Account Types	More Actions 🗸			Showing 1 to 20 of 2	25 .
Type Name 🕆	Description	Change Policy	Template Name	Passwor	d Policy	
Azure AD	Azure AD	Enable Type Disable Type		Securde	n policy	/ 11
Bank Account	Bank Accou			Securde	n policy	1 1
Cisco IOS	Cisco IOS	1	Cisco IOS	Securde	n policy	1 1
File Store	File Store		File	Not Ava	ilable	/ 11

If you want to edit multiple attributes, you may use the **edit** icon present in the table.

Delete Account Types

You can delete any custom account types created. Select the types to be deleted and then click the button **Delete Account Types**. You can also click the **Delete** icon present at the RHS of each entry.

Privileged Account Manager	This will permane proceed?	ently delete the account type(s). Do you want to	Q~ :	Search Accounts	8
Dashboard Accounts	Folders Users		Admin		
Admin > Account Types		ОК Са	incel		
Account Types					
Administrators, and Account Managers have		lication comes in handy to carry out various operation sisting ones. You need to define account types separate		eporting etc. Super Administrator	S,
Work Personal					
Q C III Add Account Type Dele	te Account Types More Actions V	Tarriate Name	Descured Delive	Showing 1 to 21 of 21 25	\sim
Q C III Add Account Type Deleter	Description	Template Name	Password Policy	-	
Q C III Add Account Type Dele		Template Name API Credential	Password Policy Securden policy	Showing 1 to 21 of 21 25	
Q C III Add Account Type Deleter	Description			-	
Q C III Add Account Type Delet Type Name ÷ API Credential	Description API Credential		Securden policy	1	
Q C III Add Account Type Dete Type Name 0 API Credential Azure AD	Description API Credential Azure AD		Securden policy Securden policy	/ 1	

Note: If the account type you are trying to delete has accounts associated with it, you will not be able to delete it. You may either edit the respective accounts and associate them with a different account type and then delete the type or you can simply disable this account type and restrict any further addition of accounts to this type.

The default system defined account types cannot be deleted. They can only be disabled.

Change Folder

You can move an account from one folder to another or put an account into a new folder. Select the account to be moved, click the **More** drop-down. Select the **Change Folder** option.

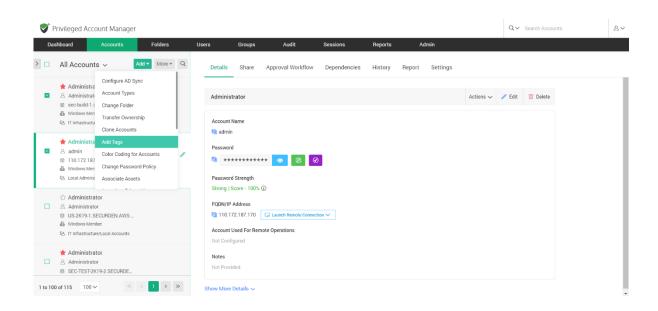
All Accou												
	ints 🗸 💡	Add 👻 More 👻	Q	Details	Share	Approval Workflow	Report	Settings				
☆ Domain ◎ 192.164.3 뤏 Windows D	23. Account Types	rnc		File						Actions \checkmark	🖋 Edit 📋	Delete
☆ Email lo ◎ 192.168.3 晶 Azure AD	Oleven Assessments					D and Secret for Cloud	storage services (1)	.pdf 🛃 関	<u>ی</u>			
☆ File ⊗ URL not s & File Store	Color Coding for Spe Change Passwo Associate Asset	rd Policy	-	Password	******* Strength icore - 89% (i							
☆ Hitchhik	specified			URL Not Provid)						
☆ Server3 இ 173.134.3				Notes Not provid	ded							

In the popup that opens, choose the folder to which the account(s) are to be moved, and then click **Move**.

	Privileged Account Mana	ger						Q V Search Accounts	8~
Da	ashboard Accounts	Folders	Users Groups	Audit	Sessions	Reports	Admin		
> 🗆	All Accounts $ \smallsetminus $	Add - More - Q	Change Folder				×		
	☆ Domain Admin 192.164.23.1 Windows Domain		You can move an account this GUI.	from one folder to ano	ther or put an accoun	t into a folder afresh	from	Actions 🗸 🥒 Edit 📋 Delete	
	☆ Email login © 192.168.72.2 ∰ Azure AD		Select Destination Folder Internal Operations		~				
	☆ File ⊗ URL not specified ♣ File Store	6. 2 /	Move Cancel	_	_	_	_		
	습 Hitchhiker 응 URL not specified 윤 Password Only		URL Not Provided						
	☆ Server3 ≋ 173.134.23.4		Notes Not provided						
r to 7	of 7 25 🗸		Show More Details 🗸						-

Add Tags

If you want to add any specific categorization to accounts in the form of a tag, you may do it by clicking on **Add Tags** under **More** drop-down in the **Accounts** section.

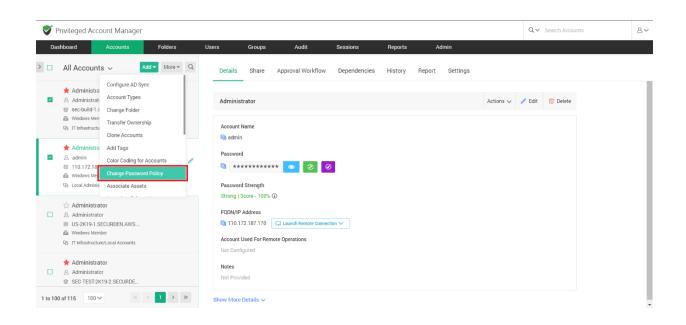


Select the account(s), enter the tag name(s), and click **Save**.

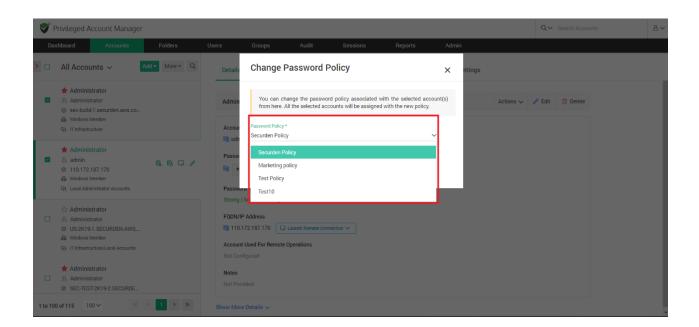
V F	Privileged Account Manager					Q ✓ Search Accourt	8~
Da	shboard Accounts	Folders User	Add Tags	×			
	All Accounts ~	Add More Q	-	^			
	🛨 Administrator		You can add tags to the selected accounts by specifying the tag name in the field below.				
	Administrator constraints and the security of the securety of the securety of the securety of the securety o		Tag Name(s) *	_	Actions ~	🖉 Edit 📋 Delete	
۰	★ Administrator A admin admin 10.172.187.170 Windows Member Local Administrator Accounts	6 8 Q /	Save Cancel Password Strength				
	☆ Administrator A Administrator 일 US-2K19-1.SECURDEN AWS 웹 Windows Member 명 IT Infrastructure/Local Accounts		Strong Score - 100% (2) FQDN/IF Address Fg] 110.172.187.170 [2] Launch Remote Connection ~ Account Used For Remote Operations Not Configured				
	Administrator Administrator SEC-TEST-2K19-2.SECURDE		Notes Not Provided				
1 to 10	0 of 115 100 √ ≪	< 1 > » g	how More Details 🗸				

Change Password Policy

If you want to change the password policy for any specific account(s), you may change it by navigating to **Accounts** >> **More** >> **Change Password Policy**.

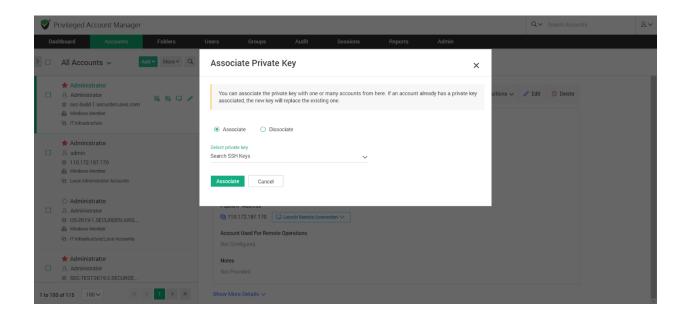


Select the account(s), click the option **Change Password Policy**, and then choose the policy to be applied from the drop-down. After selecting, click **Change Policy** to apply the policy to the account(s).



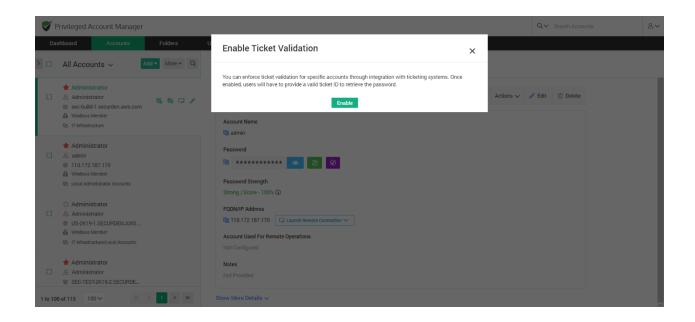
Associate Private Key

You can add an SSH key as an account and use that to launch connections to some other accounts. Navigate to **Accounts** >> **More** >> **Associate Private Key**. You can associate the private key with one or many accounts from this section. If an account already has a private key associated, the new key will replace the existing one. Select the key to be associated from the drop-down given and click **Associate**.



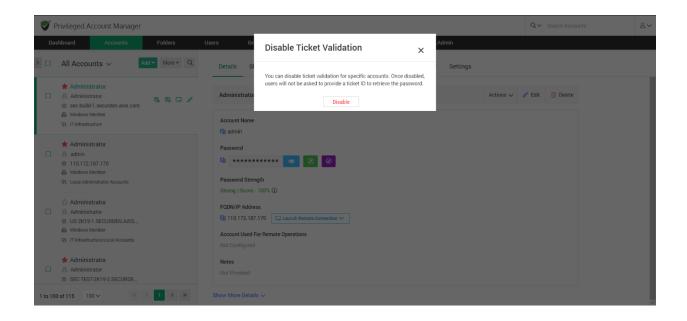
Enable Ticket Validation

Securden integrates with web-based ticketing systems. The integration helps trace specific activities like password retrieval in Securden to corresponding entries in the ticketing system. You can enforce ticket validation for specific accounts through integration with ticketing systems. Once enabled, users will have to provide a valid ticket ID to retrieve the password. Select the accounts for which you want to enforce ticket ID validation. Navigate to **Accounts >> More >> Enable Ticket Validation** and click **Enable**.



Disable Ticket Validation

Securden integrates with web-based ticketing systems. The integration helps trace specific activities like password retrieval in Securden to corresponding entries in the ticketing system. You can disable ticket validation for specific accounts. Once disabled, users will not be asked to provide a ticket ID to retrieve the password. Select the accounts for which you want to disable ticket ID validation. Navigate to **Accounts >> More >> Disable Ticket Validation** and click **Disable**.



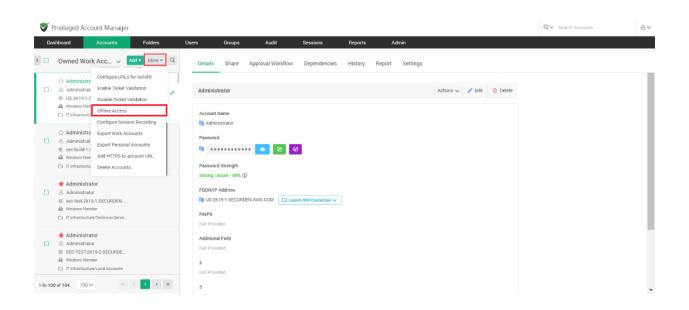
Offline Access

As an end user, you can access your accounts and passwords even when you go outside your network or don't have internet access. Securden provides the passwords in the form of an encrypted HTML copy for offline access. You can open this file in any web browser, and you will see the same interface as that of the online version.

To export passwords for offline access, you need to supply a passphrase, which will be used as the encryption key. You have the option to download the offline copy anytime as needed or create a scheduled task to get the offline copy periodically through email.

Note: The offline copy cannot be opened without the passphrase. If you forget the passphrase, you will not be able to access the offline copy. You need to export offline copy afresh.

End-users can save an offline copy of all the accounts they have access to. Users need to navigate to **Accounts >> More >> Offline Access.**



Users can export the account at once from the **Export now** tab, they need to enter a passphrase while exporting the offline copy. This passphrase will be used to open the offline copy of passwords.

ffline Access You can access your accounts and passwords even when you go outside your network or don't have internet access. Securden provides the passwords in the form of an encrypted HTML copy for offline access. You can open this file in any web browsec, and you will see the same interface as that of the online version. To export passwords for offline access, you need to supply a passphrase, which will be used as the encryption key. You have the option to download the offline copy anytime as needed or create a scheduled task to get the offline copy periodically through email. Note: The offline copy cannot be opened without the passphrase. If you forget the passphrase, you will not be able to access the offline copy our need to export offline copy afresh.	Iffline Access Vou can access your accounts and passwords even when you go outside your network or don't have internet access. Securden provides the passwords in the form of an encrypted HTML copy for offline access. You can open this file in any web browsec and you will see the same interface as that of the online version. To export passwords for offline access, you need to supply a passphrase, which will be used as the encryption key. You have the option to download the offline copy anytime as needed or create a scheduled task to get the offline copy periodically through email. Note: The offline copy cannot be opened without the passphrase, if you forget the passphrase, you will not be able to access the offline copy viou need to export offline copy afresh.	Offline Access You can access your accounts and passwords even when you go outside your network or don't have internet access. Securden provides the passwords in the form of an encrypted HTML copy for offline access. You can open this file in any web browsec and you same interface as that of the online version. To export passwords for offline access, you need to supply a passphrase, which will be used as the encryption key. You have the option to download the offline copy anytime as needed or create a scheduled task to get the offline copy periodically through email. Note: The offline copy cannot be opened without the passphrase. If you forget the passphrase, you will not be able to access the offline copy. You need to export offline copy affesh.	Privileged Accou	unt Manager								Q ← Search Accounts
Vou can access your accounts and passwords even when you go outside your network or don't have internet access. Securden provides the passwords in the form of an encrypted HTML copy for offline access. You can open this file in any web browser, and you will see the same interface as that of the online version. To export passwords for offline access, you need to supply a passphrase, which will be used as the encryption key. You have the option to download the offline copy anytime as needed or create a scheduled task to get the offline copy periodically through email. Note: The offline copy cannot be opened without the passphrase. If you forget the passphrase, you will not be able to access the offline copy. You need to export offline copy afresh.	You can access your accounts and passwords even when you go outside your network or don't have internet access. Securden provides the passwords in the form of an encrypted HTML copy for offline access. You can open this file in any web browser, and you will see the same interface as that of the online version. To export passwords for offline access, you need to supply a passphrase, which will be used as the encryption key. You have the option to download the offline copy anytime as needed or create a scheduled task to get the offline copy periodically through email. Note: The offline copy cannot be opened without the passphrase. If you forget the passphrase, you will not be able to access the offline copy. You need to export offline copy afresh. Export now Receive the copy periodically through email	Vou can access your accounts and passwords even when you go outside your network or don't have internet access. Securden provides the passwords in the form of an encrypted HTML copy for offline access. You can open this file in any web browsec and you same interface as that of the online version. To export passwords for offline access, you need to supply a passphrase, which will be used as the encryption key. You have the option to download the offline copy anytime as needed or create a scheduled task to get the offline copy periodically through email. Note: The offline copy cannot be opened without the passphrase. If you forget the passphrase, you will not be able to access the offline copy. You need to export offline copy afresh.	shboard d	Accounts	Folders	Users Gro	ups Audit	Sessions	Reports	Admin		
same interface as that of the online version. To export passwords for offline access, you need to supply a passphrase, which will be used as the encryption key. You have the option to download the offline copy anytime as needed or create a scheduled task to get the offline copy periodically through email. Note: The offline copy cannot be opened without the passphrase. If you forget the passphrase, you will not be able to access the offline copy. You need to export offline copy afresh.	same interface as that of the online version. To export passwords for offline access, you need to supply a passphrase, which will be used as the encryption key. You have the option to download the offline copy anytime as needed or create a scheduled task to get the offline copy periodically through email. Note: The offline copy cannot be opened without the passphrase. If you forget the passphrase, you will not be able to access the offline copy. You need to export offline copy afresh. Export now Receive the copy periodically through email	same interface as that of the online version. To export passwords for offline access, you need to supply a passphrase, which will be used as the encryption key. You have the option to download the offline copy anytime as needed or create a scheduled task to get the offline copy periodically through email. Note: The offline copy cannot be opened without the passphrase. If you forget the passphrase, you will not be able to access the offline copy. You need to export offline copy afresh.	fline Access									< Back
Note: The offline copy cannot be opened without the passphrase. If you forget the passphrase, you will not be able to access the offline copy. You need to export offline copy afresh.	Note: The offline copy cannot be opened without the passphrase. If you forget the passphrase, you will not be able to access the offline copy. You need to export offline copy afresh.	Note: The offline copy cannot be opened without the passphrase. If you forget the passphrase, you will not be able to access the offline copy. You need to export offline copy afresh.			rds even when you g	o outside your network	or don't have internet acce	ss. Securden provides	the passwords in the fo	rm of an encrypted HTML copy for offline	access. You can open this file in	any web browser, and you will see the
	Export now Receive the copy periodically through email		To export passwords f	for offline access, you	need to supply a pas	sphrase, which will be u	ised as the encryption key.	You have the option to	download the offline co	y anytime as needed or create a scheduled	d task to get the offline copy peri	odically through email.
Export now Receive the copy periodically through email		Export now Receive the copy periodically through email	Note: The offline copy	y cannot be opened wit	hout the passphrase.	If you forget the passp	hrase, you will not be able t	o access the offline co	py. You need to export o	ffline copy afresh.		
	er passpheise *		xport now Rec	ceive the copy period	dically through ema	iil						

Once you have decided a strong passphrase, key it in and click **Export offline copy now**.

💙 Privileged Account Manager							Q ∽ Search Accounts	8~
Dashboard Accounts F	Folders Users	Groups	Audit	Sessions	Reports	Admin		
Offline Access							< Back	
same interface as that of the online version.	need to supply a passphrase	, which will be used as the	encryption key. You	have the option to do	wnload the offline cop	rm of an encrypted HTML copy for offline access. You can y anytime as needed or create a scheduled task to get the c ffline copy afresh.		
Export now Receive the copy periodi	ically through email							
Enter pessphrase *	۲							

Receive the offline copy through email

Users can choose to export their passwords in an offline copy to their email id. Users who wish to export a copy once can select **Export Once**.

They then need to select the date and time at which an offline copy of passwords should be sent to them.

Once all the fields are selected, they can click **Save**.

Privileged Ac	count Manager										Q ← Search Accounts	٨~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Offline Acce	SS										< Back	Î
	rour accounts and pa s that of the online ve		ou go outside your net	twork or don't have int	ernet access. Sec	urden provides the	passwords in the form	of an encrypted HTN	IL copy for offline access. Ye	ou can open this file in an	y web browser, and you will see the	- 1
To export passw	ords for offline acces	a, you need to supply a	a passphrase, which w	vill be used as the enc	ryption key. You ha	ave the option to do	wnload the offline cop	y anytime as needed	or create a scheduled task to	o get the offline copy perio	odically through email.	
Note: The offline	copy cannot be open	ed without the passph	irase. If you forget the	e passphrase, you will	not be able to acce	ess the offline copy	You need to export of	fline copy afresh.				
Export now	Receive the copy p	eriodically through	email									
												- 1
Define Periodi	city											
S Export Once	O Export F	Periodically										
Note: The current tin	ne on the server in wh	ich Securden runs is 2	20 Apr 2023 10:44 hrs.	. The execution time y	ou set here will fo	llow the server time						
Export password	Is and email the encry	pted offline copy on	21 Apr 2023 at 0	01 🗸 05 🗸	hrs							- 1
Enter passphrase *			¢									
Save												
Save												

Users who wish to periodically export their passwords can select **Export Periodically**.

They then need to select the date and time at which they receive the first offline copy of passwords.

Users must then specify the periodicity at which they receive subsequent copies. This can be set as an interval of hours, days, or months.

Privileged Ac	count Manager									Q. ✓ Search Accounts	٤~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Offline Acce	SS									< Back	
	our accounts and pas s that of the online ver		ou go outside your	network or don't ha	ve internet access.	. Securden provides th	e passwords in the fo	rm of an encrypted HTML	L copy for offline access. You can open thi	is file in any web browser, and you will see the	
To export passw	rds for offline access,	you need to supply a	a passphrase, whic	h will be used as the	e encryption key. Ye	ou have the option to a	lownload the offline of	opy anytime as needed or	or create a scheduled task to get the offline	e copy periodically through email.	
Note: The offline	copy cannot be opene	d without the passpł	hrase. If you forget	the passphrase, you	i will not be able to	access the offline co	oy. You need to expor	offline copy afresh.			
Export now	Receive the copy p	eriodically through	n email								
Define Periodi	city										
O Export Once	S Export Pe	eriodically									
Note: The current tin	e on the server in whi	ch Securden runs is \$	20 Apr 2023 10:44	hrs. The execution t	ime you set here w	rill follow the server tin	ne.				
Export password	s and email the encry;	oted offline copy peri	iodically starting fro	om 21 Apr 2023	at 01 🗸 15	5 🗸 hrs					
Export password	s every 2 Mo	onths 🗸									
Enter passphrase *			-								
			۲								
Save											

Once all the fields are selected, they can click **Save**.

Users can access the downloaded HTML or access it from their email id.

Oownloads	Q Searc	h downloads		:
		Your browser is managed by securden.com		
	Today			
	٥	Securden-Offline-Access.html https://demo-unified-pam.securden.com/accountmanagement/export_encrypted_html Show in folder	×	
	POF	Share passwords with 3rd Parties - End user.pdf https://inc-word-view.officeapps.live.com/wv/WordViewer/request.pdf?WOPIsrc=htL Show.infolder	×	
	Yesterday			
	PDF	Securden-Unified-PAM-Admin-Guide (1).pdf https://doc-00-68-docs.googleusercontent.com/docs/securesc/nf911pbejvgr9152sg	×	

To open the encrypted HTML file, users have to enter the passphrase that they keyed in on configuring offline access.

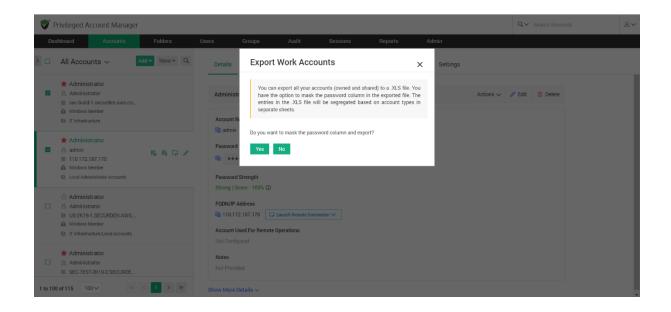
Securden 🕈		
	Securden Offline Access	
	Enter Passphrase	
	Proceed	
	Proceed	

On successfully entering the passphrase, users can access all their passwords offline.

Securden 🕈				Ċ
All Accounts	Showing 1 to 100 of 102	Account Details		
Web Account		Account Title	Administrator	
Leading Customers Sales https://www.leadcapter.com/		Account Name	Administrator	
Demo Type		Password	*******	
Linux Ad URL not specified		FQDN/IP Address	sec-build-1.securden.aws.com	
Password Only		Account Type	Windows Member	
Linux_serveros 10.9.0.01		Account Owner	Securden Administrator	
Linux		Password Policy	Marketing policy	
Local User 2		Folder	IT Infrastructure	
in 172 31 04 334 oo3 internal		Notes		
		-		*

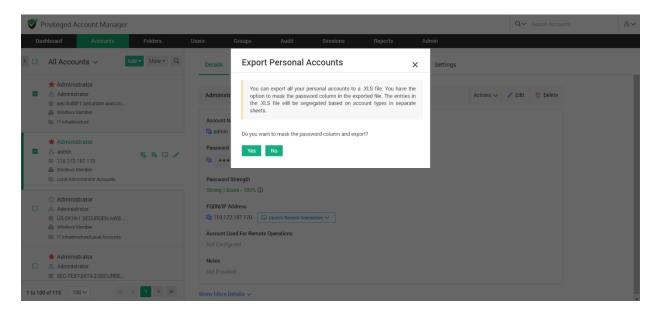
Export Work Accounts

You can export all your accounts (owned and shared) to an **XLSX** file. You have the option to mask the password column in the exported file. The entries in the XLSX file will be segregated based on account types in separate sheets. Navigate to **Accounts >> More >> Export Work Accounts**. Choose whether to mask the password column and export.



Export Personal Accounts

You can export all your personal accounts to an **XLSX** file. You have the option to mask the password column in the exported file. The entries in the XLSX file will be segregated based on account types in separate sheets. Navigate to **Accounts >> More >> Export Personal Accounts**. Click **Yes** to mask the password column and export.

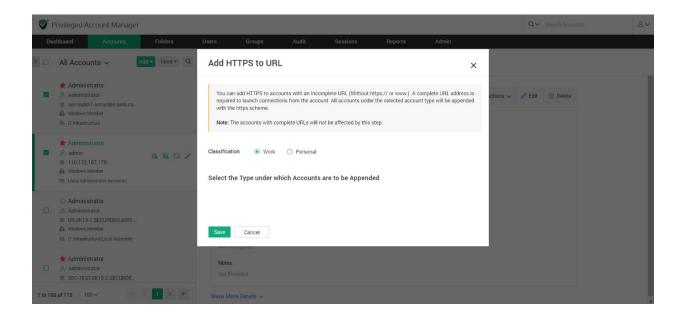


Add HTTPS to account URL

You can add HTTPS to accounts with an Incomplete URL (Without <u>https://</u> or www.). A complete URL address is required to launch connections from the account. All accounts under the selected account type will be appended with the https scheme.

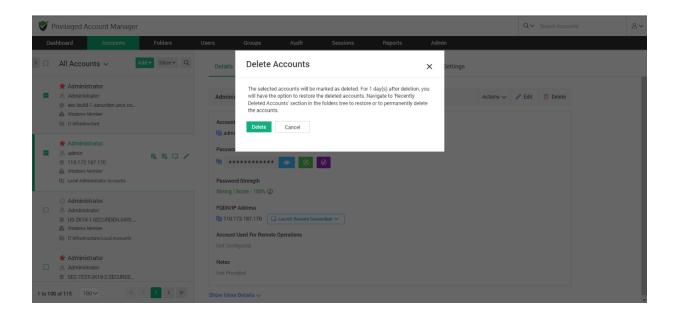
Note: The accounts with complete URLs will not be affected by this step.

Navigate to **Accounts** >> **More** >> **Add HTTPS to the URL**. Select the classification of your accounts (Work or Personal) to which URLs are to be added, choose the account type from the drop-down given, and then click **Save**.



Delete Accounts

You can delete one or more accounts at once by navigating to **Accounts** >> **More** >> **Delete Accounts**. The selected accounts will be marked as deleted. For 1 day(s) after deletion, you will have the option to restore the deleted accounts. Navigate to **Recently Deleted Accounts** section in the folders tree to restore or to permanently delete the accounts.



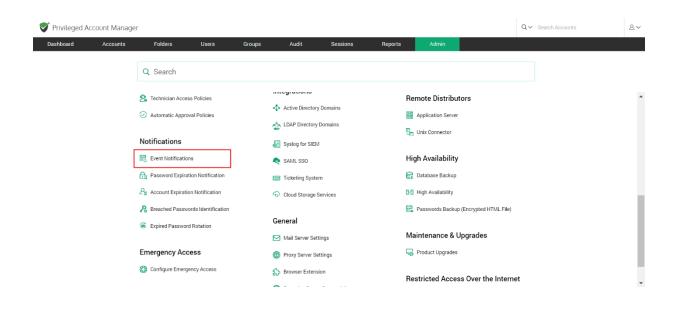
Section 6: Notifications

Event Notification

You can choose to send or receive email alerts upon the occurrence of any specific event like password retrieval, addition, deletion, and other modification activities. You can choose which events you would like to get alerted about. The notifications can be sent out in real-time as and when the event occurs or as a consolidated email once a day.

Configure Event Notifications

Navigate to **Admin >> Notifications >> Event Notifications** to configure this feature.



To enable notifications, you need to toggle the Configure Notifications button.

Selecting Events

You will see two fields named **Events related to actions on accounts** and **Events related to user activities**.

To add events that you want to get notifications for, click on **Select events** under **Events related to actions on accounts** or **Events related to user activities**. Select the events you want to get notified about from the list of events.

Event Notifications		
Securden can send email notifications upon the occurrence of certain events such as password retrieval, deletion, change in share permissions and others. You can choose the even notifications can be triggered real-time or as one consolidated email once a day.	ts for whic	h you want to receive notifications. The
Configure Notifications		
Select the events for which you want to receive notifications from the list below.		
Events related to actions on accounts	Clear All	
Remote Connection Established X Account Deleted X		
Events related to user activities	Clear All	
User Deleted x 2FA Disabled x		

 The selected events are shown in a green box. Any of the selected events can be removed by clicking on the X present adjacent to the event. To clear all selected events, click on the Clear all button.

When do you want to get Notified?

You can choose to either get notified **As and when the events occur** or **As a consolidated email, once a day**. Specify your choice accordingly.

Who to Notify?

- You can trigger the notification upon the occurrence of the selected events to any specific user(s) or usergroup(s). You may even choose to trigger notifications for certain specific roles of users too - for example, 'All Administrators', 'All Auditors', etc.
- You can also send notifications to people who are not registered users in Securden by specifying their email address in the box named **Others** (specify email address).

Account Expiration Notification

The expiration dates of licensing keys and certificates saved in Securden can be tracked. You can send email alerts a set number of days before the expiration date to act as a reminder. Administrators, auditors, owners of the respective accounts, and any specified users can receive notifications.

Configure Account Expiration Notification

Navigate to Admin >> Notifications >> Account Expiration Notifications.

💙 Privileged Accou	unt Manage	r								Q ← Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
		Q Search									
		S Technician Access Policies			integrationo			Remote Distribu	itors		
		Automatic Approv	al Policies		4 Active Director	,		Application Server	r		
					CDAP Directory	/ Domains	1	🔚 Unix Connector			
		Notifications			Syslog for SIE	N					
		Event Notifications	S		nt SAML SSO			High Availability	1		
		Bassword Expiration	on Notification		E Ticketing Syste	em		Database Backup			
		$\mathcal{P}_{\mathbf{E}}$ Account Expiration	n Notification			Services	1	🔢 High Availability			
		🔏 Breached Passwor	rds Identification				1	🚉 Passwords Backu	p (Encrypted HTML File)		
		Expired Password	Rotation		General						
					Mail Server Se	ttings		Maintenance &	Upgrades		
		Emergency Acce	ess		Proxy Server S	ettings	I	Rroduct Upgrades			
		🔇 Configure Emerger	ncy Access		Browser Exten	sion		Restricted Acce	ss Over the Interne	at	- 1
					~ - · ·			nestricted Acce	ss over the interne		*

Enable Expiration Notification to view the configuration options.

To Configure Account Expiration Notification, follow these steps.

The Notification Schedule

- You can configure Securden to send notifications on an impending account expiration. You can send notifications multiple times before the expiration date.
- You can add any number of Notifications by clicking on the `+' sign.
- Specify the number of days prior to the date of expiration a notification needs to be sent in each of the Notification schedules opened.

Who to Notify?

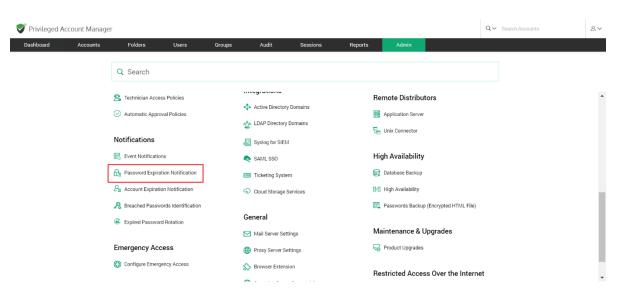
- You can trigger the notification upon the occurrence of the selected events to any specific user(s) or usergroup(s). You may even choose to trigger notifications for certain specific roles of users too - for example,
 All Administrators, All Auditors, etc.
- You can also send notifications to people who are not registered users in Securden by specifying their email address in the box named **Others** (specify email address).

Password Expiration Notification

You can send email notifications a specified number of days before the passwords expire to remind users to update their passwords. You can set up notifications to be sent any number of times before the password expires till it is reset. Administrators, auditors, owners of the respective accounts, and any specified users can all receive notifications.

Configuring Password Expiration Notification

Navigate to Admin >> Notifications >> Password Expiration Notifications to configure this feature.



Enable Expiration Notification to view the configuration options.

To Configure Password Expiration Notification, follow these steps

The Notification Schedule

- You can configure Securden to send notifications on an impending password expiration. You can send notifications multiple times before the expiration date.
- You can add any number of Notifications by clicking on the `+' sign and delete them by clicking on `-'.
- Specify the number of days prior to the date of expiration a notification needs to be sent in each of the Notification schedules opened.

Who to Notify?

 You can trigger the notification upon the occurrence of the selected events to any specific user(s) or usergroup(s). You may even choose to trigger notifications for certain specific roles of users too - for example, 'All Administrators', 'All Auditors', etc. You can also send notifications to people who are not registered users in Securden by specifying their email address in the box named **Others** (specify email address).

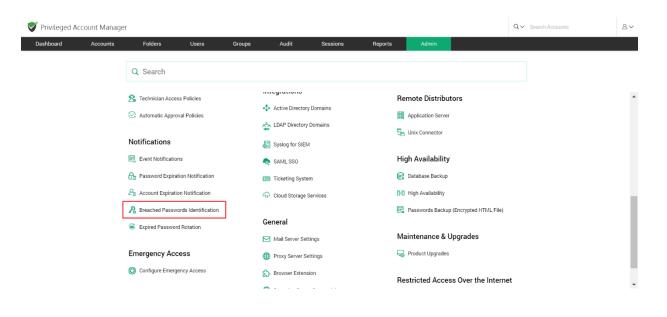
Breached Password Identification

Passwords exposed in various data breaches worldwide are publicly available as a data dump. Many times, users are not aware when their passwords are exposed in credential spilling attacks. If a breached password is being used, it may lead to a spate of cyberattacks. To prevent such incidents, Securden can periodically scan the dump and check if any of the passwords stored in the product matches with the passwords that have been exposed in known data breaches. You can configure how often Securden should check for breached passwords. Whenever usage of a breached password is detected, email alerts will be sent to administrators, auditors, respective account owners, and other specified users.

Important Note: In addition to periodic checks, Securden runs this check at the time of account addition and password change events provided the product is connected to the internet.

Configuring Breached Password Identification

Navigate to Admin >> Notifications >> Breached Password Identification.



Enable breached password Identification to view the configuration options.

To configure Breached Password Identification, follow these steps.

Periodicity of checks

- You can specify the interval (in days) at which the breached passwords identification check is to be performed.
- You can get email notifications whenever a breached password is identified by enabling the Enable Email Alerts Upon Identification option.

Breached Passwords Identification
Passwords exposed in various data breaches worldwide are publicly available as a data dump. Many times, users are not aware when their passwords are exposed in credential spilling attacks. If a breached password is being used, it may lead to a spate of cyberattacks. To prevent such incidents, Securden can periodically scan the dump and check if any of the passwords stored in the product matches with the passwords that have been exposed in known data breaches. You can configure how often Securden should check for breached passwords. Whenever usage of a breached password is detected, email alerts will be sent to administrators, auditors, respective account owners, and any other specific users.
Important Note:
In addition to periodic checks, Securden runs this check at the time of account addition and password change events, provided the product is connected to the internet.
Enable Breached Passwords Identification (Periodic Check)
Verification Schedule
Enter Periodicity (in days) * 7
Enable Email Alerts Upon Identification
Save Cancel

Who to Notify?

Upon enabling email alerts, you can choose who receives the notification upon identification.

- You can trigger the notification upon the occurrence of the selected events to any specific user(s) or usergroup(s). You may even choose to trigger notifications for certain specific roles of users too - for example, 'All Administrators', 'All Auditors', etc.
- You can also send notifications to people who are not registered users in Securden by specifying their email address in the box named **Others** (specify email address).

Expired Password Rotation

When passwords expire or are about to expire, Securden can automatically rotate them for accounts remote password reset is enabled. You can indicate the number of days until the password expires that the password rotation should be tried, as well as the number of attempts.

You don't have to change passwords manually anywhere because the new password is updated in both the end machine and the Securden database.

Important note: Only accounts for which remote access credentials have been provided can have password rotation configured. Go to **Admin** >> **Device Level Configurations** to set up remote credentials.

Configuring Password Rotation

Navigate to Admin >> Notifications >> Expired Password Rotation.

Vrivileged Ac	count Manage	er								Q ← Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
		Q Search									
		2 Technician Access Policies 3 Automatic Approval Policies			Active Directory Domains			Application Server			î
		Notifications			🟭 Syslog for SIEM		9E.)				
		Event Notification	15		 SAML SSO Ticketing System Cloud Storage Services 			gh Availability	,		
		🔒 Password Expirat	ion Notification					Database Backup			
		P _B Account Expiration	on Notification					High Availability			
		용 Breached Passwo	ords Identification				Ē	Passwords Backu	p (Encrypted HTML File)		
		Expired Password	d Rotation]	General						
	L L			-	Mail Server Sett	ings	M	aintenance &	Upgrades		
		Emergency Acc	ess		Proxy Server Se	ttings	F@	Product Upgrades			
		🐯 Configure Emerge	ency Access		Browser Extensi	ion 	Re	estricted Acce	ss Over the Interne	et	

To be able to configure the settings, you need to enable the **Reset Passwords Upon Expiration** option.

You can configure Securden to carry out password changes either **`On Expiration Date** or a few days **Prior to Expiration** date.

If you choose **On Expiration Date**,

- You need to provide the frequency of password reset attempts, which can be as low as a minute.
- You should also specify the maximum number of attempts to be made to reset a password in **Number of retries**.

• You can choose to **Reset the already expired password**. Securden will try to reset the expired passwords at the time of configuration.

If you choose Prior to Expiration,

- You should specify how many days before the expiration date the reset attempts should be made.
- You need to provide the frequency of password reset attempts, which can be as low as a minute.
- You should also specify the maximum number of attempts to be made to reset a password in the field named **Number of retries**.
- You can choose to make reset attempts in accounts whose passwords are about to expire and the passwords that have already expired by clicking on the respective checkboxes.

Event Listener

Trigger automated follow-up actions upon the occurrence of specific events

IT and DevOps often face the need to rapidly initiate a series of tasks upon the occurrence of certain events. Automation takes care of initiating the required tasks in a timely manner.

You can trigger the automated follow-up action(s) upon the occurrence of any specific event or a sequence of events in Securden. For example, when the password of an account is retrieved or changed, you can trigger a follow-up action automatically. Typically, Securden keeps listening for the event to occur and triggers the script defined by you to initiate the follow-up action.

Creating the event listener

Creating the event listener involves configuring settings in Securden and defining the required follow-up action(s). Typically, you need to specify the conditional event (upon the occurrence of which you want to trigger the follow-up action), then the specific accounts in Securden that are to be considered for the conditional action.

To configure or add an Event Listener, navigate to Admin >> Account Management >> Event Listener

Privileged A	ccount Manag	er								Q. ✓ Search Accounts	
Dashboard	Accounts	Accounts Folders Users Q Search Account Management Q Account Types Device Level Configurations			Audit Customization Custom User Ru Securden Agen Custom User Custom Cust	oles t Text Customization	<u></u>	Admin curity Domein Administ Change Encryptic IP Address Restri	n Key Location		
		 SSH Templates For Password Reset Event Listener Global Tags 			Logo, Theme ar API Access Authentication	nd Text Token For API Access	Re	Remote Gateway	ns and Recordin	ngs	
		Approval Workf	ege Requests		Authentication	hentication	සි	Domain Account	Assets Association		,

To add an event trigger, click on **Add Listener.**

Admin > Event Listener			and and a second	Groups			Reports			
vent Listener										
You can trigger an action follow-up action autom listener and the desired	atically. The fo	llowup action cou								
	stener Del	ete Listener						Showing	1 to 1 of 1 25	~
Listener Name 🛊		Description		Conditional Eve	ent Type	Status		Actions		
		Description		Conditional Eve		Status [Pending For /	\pproval]	Actions	1	
Listener Name 🖨		Description					\pproval]		1	

Clicking on **Add Listener** takes you to the settings GUI to add listener-related attributes.

Privileged A	ccount Manager								Q ← Search Accounts
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin	
Admin > Event List	ener > Add Event Listener	r							
Add Event L	istener								Help _?
The wizard belo of a script or an	w helps you create a liste API task.	ener specifying the	e conditions upon w	vhich it should trigge	r the followup acti	on. You can also defin	e the desired followup	p action in the form	You can trigger an action after the occurrence of any specific event or a sequence of events in Securden. For example, where the password of an account is changed, you can trigger a follow-up action automatically. The followup action could be
Listener Name* List1		D	escription						defined in the form of a script (any Windows executable such as .bat, .exeps1, .vbs etc.) or as an API task making use o third-party REST APIs.
Conditional Event Typ Search event type	×	~							Summary of steps: Specify the event type for which you want to trigger the listener (Conditional Event Type')
Trigger the List	ener for the Events	from							 Specify if you want the listener to be triggered for all accounts or accounts belonging to a specific type Granularly select specific accounts by creating conditional criteria (optional)
O All Accounts	O Account Types								 Define the desired followup action (post listener trigger) in the form of a script or a task using third-party APIs
Save Can	cel								Prerequisite: If the followup action requires internet connectivity, you should have configured Proxy server settings (Admin >> General >> Proxy Server Settings)

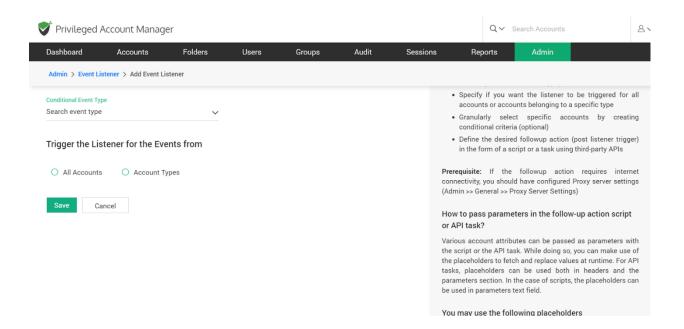
Provide a Name and description for the Listener

- **Listener name**: A listener name should be included for easy access on the listener lists page. This is done for quick identification.
- Description: A brief description of what the listener was created for or a general categorization of the listener can be given to have an overview of it.

💎 Privileged Account Manager								Q ← Search Accounts	8~
Dashboard Accounts Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Admin > Event Listener > Add Event Listener									
Add Event Listener							Help	Ş	Â
The wizard below helps you create a listener specifyi of a script or an API task.	event or the pas	You can trigger an action after the occurrence of any sp event or a sequence of events in Securden. For example, the password of an account is changed, you can trig follow-up action automatically. The followup action cou							
Listener Name* Password Script	Description Run a script when a r	emote device passw	ord is change				as .bat,	in the form of a script (any Windows exec exe, .ps1, .vbs etc.) or as an API task ma rty REST APIs.	
Conditional Event Type							Summa	ary of steps:	
Password Reset in Remote Machine								pecify the event type for which you want to stener ('Conditional Event Type')	trigger the
O All Accounts O Account Types							ac • Gr co • De	secify if you want the listener to be trigg counts or accounts belonging to a specific t ranularly select specific accounts by notitional criteria (optional) efine the desired followup action (post liste	type y creating ener trigger)
							in	the form of a script or a task using third-part	y APIs
Save Cancel							connect	isite: If the followup action require tivity, you should have configured Proxy ser >> General >> Proxy Server Settings)	
							How to or API	pass parameters in the follow-up action task?	on script

Specify the event type to trigger the listener

The listener can be triggered for certain conditional event types. You can select the event type from the scroll list by clicking **Search event type.**



Some of the **conditional events** are Account Added, Account deleted, Account added to Folder, Account removed from Folder, Breached password identified, Password changed locally, Password reset in a remote machine, and Password retrieved.

Specify account types for listener to be triggered

You can choose an event listener to be triggered for activity in all accounts or for a specific account type like Linux, MAC, Windows Domain account, and others.

Click on **All Accounts** to trigger an event for all accounts.

Click on Account Types and select the type from the drop-down list.

Granularly select specific accounts

You can create granular conditions to trigger the listener only for a select list of accounts matching the criteria to suit your needs. You need to specify the account attributes needed or not needed as the selection criteria. To proceed with this step, click on **Specify Attributes for Granular Selection**.

While selecting multiple attributes, you can choose between using the AND operator and the OR operator. Choosing AND will let you select all accounts that satisfy both conditions. Choosing OR will let you select all accounts that satisfy a minimum of one of the conditions.

You can choose the attributes you want to use as the criteria for selecting accounts from the drop-down list. The various options include **Account Title**, **Account Name**, **Address**, **Notes**, **Tags**, and **Folder Name**.

For each of the selected attributes, you can choose the condition from Equals, Contains, and Does Not Contain.

Specify the **Value** of the attribute chosen and choose the condition according to the rules below.

Condition:

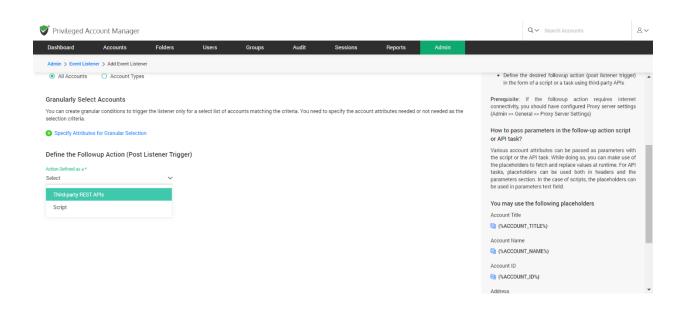
Equals mean the Value specified is an exact match to the account's attribute.Contains mean the Value specified is a part of the account's attribute.Does Not Contain means the Value specified is not a part of the account's attribute.

To add a criterion, you can click on "+" at the RHS. To remove a criterion, you can click on "-" at the RHS.

Define the desired follow-up action

The follow-up action can be either in the form of a script or a task using thirdparty APIs.

Prerequisite: If the follow-up action requires internet connectivity, you should have configured Proxy server settings (Admin >> General >> Proxy Server Settings).



Setting up follow-up actions with a script

Summary of steps:

- Key in the **Pre-Command**: If the script needs another program to invoke it from the command prompt, the same could be provided here as the 'Pre Command'.
- Select the **Script file** from your computer.
- Choose the **Parameters to be Passed.**

FORMAT: <Pre Command> <Script File> <Parameters>

Pass parameters in the follow-up action Script/API task

Various account attributes can be passed as parameters with the script or the API task. While doing so, you can make use of the placeholders to fetch and replace values at runtime. For API tasks, placeholders can be used both in headers and the parameters section. In the case of scripts, the placeholders can be used in the parameters text field.

Privileged A	Account Manager									Q ← Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Admin > Event Lis	stener > Add Event Listen	er									
Script		~							You may Account T	use the following placeholders	^
If the script needs	another program to invo		(%ACCOUNT_TITLE%)								
Examples			Account Name (%ACCOUNT_NAME%)								
FORMAT : < Pre Co	ommand> <script file=""></td><td>Address</td><td colspan=5></td></tr><tr><td>Example 1: "C:\Pro</td><td>ogram Files\python\pytho</td><td>on.exe" <Uploade</td><td>ed python file> "{%AC</td><th>COUNT_NAME%}" "{</th><td>%OLD_PASSWORD</td><th>%}" "{%ACCOUNT_PAS</th><td>SWORD%}*</td><td></td><td>🔁 (%ACC</td><td colspan=5>(%ACCOUNT_ADDRESS%)</td></tr><tr><td>Example 2: <Uploa</td><td>aded batch file> *{%ACCC</td><td>OUNT_NAME%}" *</td><td>{%OLD_PASSWORD%</td><th>)" "{%ACCOUNT_PASS</th><td>SWORD%}"</td><th></th><td></td><td></td><td></td><td colspan=5>Account Old Password</td></tr><tr><td>Pre Command</td><td></td><td></td><td></td><th></th><td></td><th></th><td></td><td></td><td>Account P</td><td>assword DUNT_PASSWORD%}</td><td>- 1</td></tr><tr><td>Select the Script File</td><td></td><td></td><td></td><th></th><td></td><th></th><td></td><td></td><td>Folder Nar</td><td></td><td></td></tr><tr><td>Choose a file</td><td></td><td>Browse</td><td></td><th></th><td></td><th></th><td></td><td></td><td></td><td>DER_NAME%}</td><td></td></tr><tr><td>Parameters to be F</td><td>Passed</td><td></td><td></td><th></th><td></td><th></th><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><th></th><td></td><th></th><td></td><td></td><td></td><td></td><td></td></tr></tbody></table></script>										

You may use the following placeholders:

- Account Title
 {%ACCOUNT_TITLE%}
- Account Name
 {%ACCOUNT_NAME%}
- Address
 {%ACCOUNT_ADDRESS%}
- Account Old Password {%OLD_PASSWORD%}
- Account Password
 {%ACCOUNT_PASSWORD%}
- Folder Name
 {%FOLDER_NAME%}
- Name of the account for remotely logging in to the IT asset {%REMOTE_LOGIN_ACCOUNT_NAME%}
- Password of the remote login account {%REMOTE_LOGIN_ACCOUNT_PASSWORD%}

395 Securden Unified PAM

- Name of the account that has privileges to do remote operation {%PRIVILEGED_ACCOUNT_NAME%}
- Password of the privileged account
 {%PRIVILEGED_ACCOUNT_PASSWORD%}

Setting up follow-up actions with a Third-party REST API

Select the request type from GET, PUT, POST, DELETE.

The four main HTTP methods (GET, PUT, POST, and DELETE) can be mapped to CRUD operations as follows:

GET retrieves the representation of the resource at a specified URL. GET should have no side effects on the server.

PUT updates a resource at a specified URL. PUT can also be used to create a new resource at a specified URL, if the server allows clients to specify new URIs. For this tutorial, the API will not support creation through PUT.

POST creates a new resource. The server assigns the URL for the new object and returns this URL as part of the response message.

DELETE deletes a resource at a specified URL.

- Enter the Request URL where the request type will be applicable
- Choose to add Headers or API Parameters using Add Headers and Add Parameters.

To enter multiple Headers or Parameters use the + sign. To remove a Header or Parameter use the - sign.

Enter the details of Name and Value for Headers and API parameters.

- API headers are like an extra source of information for each API call you make to represent the meta-data associated with an API request and response.
- API parameters are the variable parts of a resource. They determine the type of action you want to take on the resource. Each parameter has a name and value type.

Once all the fields have been filled, click on **Save**, if you wish to stop the listener configurations midway, simply click **Cancel**.

Event listener actions

You can configure event listeners added in Securden, you can choose to Delete, Edit, or Clone an event listener.

Privileged	Account Manag	jer					Q~ s	earch Accounts	8
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin	
Admin > Event L	istener								
Event Liste	ner								
follow-up act		e followup action co						account is changed, you car wizard below helps you to	
Q 0 III	Add Listener	Delete Listener						Showing 1 to 1 of 1	25 🗸
Listener Na	ame ‡	Description		Conditional I	Event Type	Status		Actions	
Telecom				Account Add	led to Folder	[Pending For	Approval]	R 🗅 🖊 📋	
Showing 1 to 1 of	f1 25 🗸							~ <	1 > >>

Delete a listener - To delete listeners, select them from the list and click **Delete Listener** OR delete them individually using the **<Red icon>** in **Actions.**

View Listener - gives you a brief of the Listener name, Event type, Trigger action, and Description. To access this, click on the **view icon**.

Clone Listener - To create a listener with similar details to an existing one, use the **clone icon**. This takes you to the Add listener configuration with all the pre-filled details of the clone, change the fields as needed and click **Save**.

Edit Listener - To edit a listener, click on the **edit icon**. This lets you change any field you have entered while adding the listener.

Section 7: API Access

APIs for Programmatic Access

Identities are present everywhere and in every piece of IT. Apart from the passwords, keys, and other credentials used by humans, every organization has to deal with a lot of machine identities, credentials embedded on scripts and applications, and so on. Securden provides APIs for programmatic access of the data stored in the product. Scripts, applications, and configuration files that require credentials can access the Securden database and fetch the data, thus eliminating the dangerous practice of hard-coding of credentials. API access is regulated through a token-based authentication mechanism.

To programmatically access an account through API, you need an URL and the Auth Token. The token can be a static one or dynamic and valid for a specified time duration or forever. The access can be restricted from specific IP addresses or FQDNs. Also, tokens can be applicable only for a specific list of operations.

As mentioned above, you require two things for API access:

- Authentication token
- Access URL

You need to create the authentication token in the GUI and then construct the URL referring to our API reference guide. You need to supply the URL and the Auth Token to the calling application.

How to create the authentication tokens for APIs?

To create tokens for APIs, **navigate to Admin >> API Access >> Authentication Token for API Access** section.

Privileged A	Account Manag	er								Q~	Search Accounts	8~
Dashboard	Accounts	Folders C Search Account Manage Search Account Types Search B Password Policy	Groups		toles It Text Customization	Reports	Securit & Doma Chan	ain Administr ge Encryptio	n Key Location]	Î
		Device Level Cor SSH Templates 1 Event Listener Global Tags		Configurations Config			Block		tions ns and Recordi	ngs		
		Approval Work	'n	Authenticatio	n thentication		Asset	ts for Remote	e Connections Assets Association Ilications Association g			•

In the GUI that opens, click the button **Create Token**.

	ccount Manager								Q ← Search Ac	counts	
ashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Imin > Authenti	cation Token For API Acc	ess									
uthentica	tion Token Fo	r API Access	6								
eliminating the Access is gran on constructing Note:You can u	dangerous practice of	hard-coding of creder sed authentication. To supply the URL and th	ntials. o programmaticall he Auth Token to th	y access an account he calling application	through API, you ne				access Securden database		
Q Crea	te Token Delete								Sho	owing 1 to 1 of 1 2	5 V
C Crea		Description					Auth Token Type		Sho	owing 1 to 1 of 1 2	5 v

In the GUI that opens, you need to enter the following information:

	Account Manager									Q ← Search Accounts	8
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Admin > Authentie	cation Token For API Acce	ss 🗲 Add API Config	uration								
Authentica	tion Token Fo	API Access	3								
	ides APIs for querying the dangerous practice of h			credentials and per	form various other	tasks. Scripts, applica	tions and configuration	on files that requir	e credentials could acce	ess Securden database and fetch the data, thus	
- Access is gran		ed authentication. To	o programmaticall			need a URL and the A	ith Token. You can cre	ate and copy the	Auth Token in this step.	Refer to the API help documentation for details	
	g the URL. You need to s use the APIs only for the										
_		accounts you have a	iccess to (onlied e	and shared accounts	9.						
API Here	rence Guide										
PI Reference Name*											
Program Token											
escription											
llow API requests on	ly from the following IPs/FQ	DN*									
92.268.34.2			(i)								

Token name and description

Enter a name for the token being created. This **API Reference Name** helps you uniquely identify the token when using it in APIs. A description will help in tracking the purpose of the token.

Token access restrictions

If you want to restrict the token usage only from specific IP addresses, you may enter the same in the field "Allow API requests from the following IPs/FQDN". You can enter individual IP addresses in comma separated form or an IP range or FQDNs or CIDR notations.

Examples:

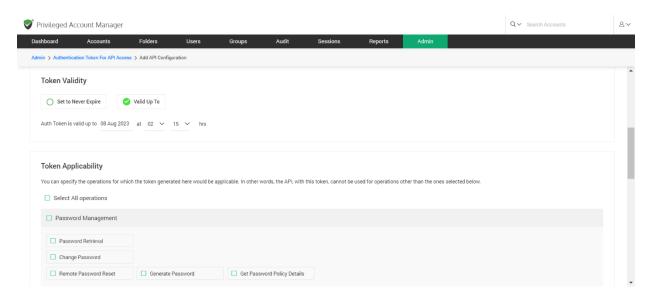
Specific IP Address: 191.224.1.22

IP Range: 224.1.1.10:224.1.2.1

CIDR Notation: 192.168.1.30/24

Token type

You can choose to create a static token or a dynamically changing one. Select your choice **Static** or **Dynamic** as required.



Token lifetime

You can also decide about the lifetime of the token being created. Static tokens can be created with a permanent validity **Set to Never Expire** or can be created to be valid for a predefined date and time. Select the option **Valid Upto** and set the validity date. Dynamic token will have a short lifespan in minutes.

Token scope

You can define the scope of the token being created by restricting the operations for which the token generated here would be applicable. In other words, the API, with this token, cannot be used for operations other than the ones selected in scope. To define the scope, select the required operations under **Token Applicability**.

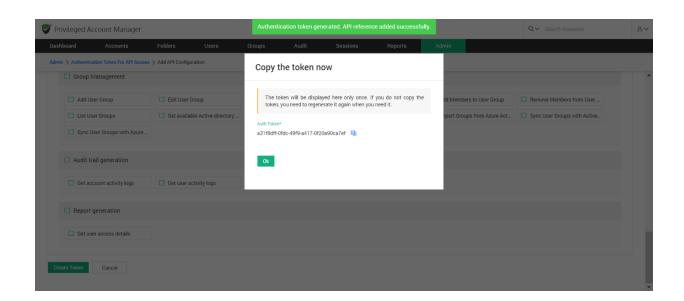
board	Accounts	Folders U	sers	0	Audit	Sessions	Denote	Admin			
board	Accounts	Folders U	sers	Groups	Audit	Sessions	Reports	Admin			
> Authent	cation Token For API Access	> Add API Configuration									
oken Ap	plicability										
ou can spec	ify the operations for which	the token generated here	e would be applic	able. In other words,	the API, with this	token, cannot be use	d for operations oth	er than the ones	selected below.		
D. Calant	All an anation a	-									
Select	All operations										
Passv	ord Management										
Pass	word Retrieval										
•	II My Accounts (Owned and	I Shared) 🔿 Specific	Accounts								
Chan	ge Password										
	ote Password Reset	Generate Passwo	rd	Get Password P	olicy Details						
Rem											
🗌 Rem											
	nt Management										
	nt Management										
	-	Z Edit Account		 Delete Accounts 	3	Share Account	t	Remove St	lare	View Account Share Permissi	

Create the token and copy the static token

After defining the scope, proceed to create the token.

shboard	Accounts	Folders Users	Groups Audit	Sessions Reports	Admin	
nin > Authentication	Token For API Access	> Add API Configuration				
🗹 Group Man	agement					
dd User G	iroup	Z Edit User Group	Delete User Groups	List Members of a User Group	Add Members to User Group	Remove Members from User
☑ List User G	roups	Get available Active directory	Get available Azure Active Dir.	Import Groups from Active Dir	Import Groups from Azure Act	Sync User Groups with Active
Sync User	Groups with Azure					
🔲 Audit trail g	generation					
Get accour	nt activity logs	Get user activity logs				
Report gen	eration					
Get user ac	ccess details					

If you have chosen the type **Static**, you will be prompted to copy the token to the clipboard. The token will be displayed only once and you can't refer to that again if you don't copy it.



Getting dynamic tokens

Dynamic auth tokens can be obtained programmatically. Typically, you will obtain it as explained below. You will have to pass the credentials to access Securden as arguments.

GET /api/get_auth_token
Input data (arguments): login_name (String), password (String),
domain_name
(Default authentication will be local)
Example (if you are using Curl):
curl -k -X GET
"https://pamdemo.com/api/get_auth_token?login_name=admin&password=
admin&domain_name=xyz"

Edit, Delete, Update, Regenerate Tokens

You can use the **Actions** column on the APIs page to delete the tokens that are no longer needed. Similarly, you can edit the static tokens and extend their lifetime (validity period). In such cases, you will have to update and regenerate the token.

Privileged A	Account Manager								Q ← Search Ac	counts
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
Admin > Authenti	ication Token For API Acce	SS								
Authentica	ation Token For	API Access	:							
eliminating the Access is gran on constructin Note:You can t	e dangerous practice of h	ard-coding of creden ed authentication. To upply the URL and th	itials. programmatically ie Auth Token to the	access an account e calling application.	through API, you r		-		ld access Securden database s step. Refer to the API help o	
Q Cre	ate Token Delete								Sho	owing 1 to 1 of 1 25 ∿
API Refere	nce Name	Description					Auth Token Type			Actions
Database f	fetcher						Static			/ 🗊

Token creation is the first step in API access. You need to construct the URL for use by applications, scripts, and configuration files.

Constructing the URL for API Access

To programmatically access an account through API, you need a URL with the Auth token. You have created the auth token through the steps detailed above. You can create the URL by following the steps detailed in the API Help Documentation present in **Admin** >> **API Access** >> **Authentication Token for APIs**. The documentation explain how the URL is to be constructed and the arguments to be passed for various operations.

Section 8: Folder Management

Organize Accounts with Folders

You can create folders and group **Accounts** for easy and efficient management. At any point of time, a specific account could be a member of only one folder. This means, an account cannot be a member of multiple folders. Grouping accounts into folders lets you perform actions like remote password resets for multiple accounts grouped in the folder at one go. You can also define a hierarchical structure with any number of folders and sub-folders.

You can add folders to Securden in two ways:

- 1. Add manually
- 2. Import from a file

Manually Adding Folders

Navigate to **Folders** >> **Add**. Provide the following details to create a folder.

Folder Name

You need to provide a name that uniquely identifies the folder. This name will appear on the left-hand side of the interface. The name will help you distinguish between folders while adding, deleting, and modifying accounts.

Description

You can also provide a description to further help classify the accounts for easy management.

Parent Folder

- If you want to create a stand-alone folder, leave this option as --None -.
- If you want to create a new subfolder to an existing folder, you should specify the existing parent folder by choosing the required folder from the drop-down list.

Inheritance of Share Permissions

- Once you select a parent folder, you will have the option to choose whether to inherit permissions from it or not. Select **Yes** if you want to inherit permissions. This means that the users and user groups having access to the parent folders will now have access to the subfolder with the same level of access permissions.
- Select **No** if you don't want the subfolder to inherit permissions granted to the parent folder.

408 Securden Unified PAM

- Choosing to inherit share permission will mean users who have shared access to the parent folder will now have access to the new folder with the same permissions (View/Modify/Manage). But, users with whom you explicitly share the new folder will only obtain access permissions to the new folder.
- You can choose to switch inheritance **On** or **Off** anytime.

Notes

- You can add notes to a folder for classification, marking ownership, and sharing user guidelines.
- You can also add any miscellaneous remarks related to the folder and its content.

Add Accounts to the Folder

You can add accounts to the folder at the time of creation. An account could remain a member of one folder at a time. This means the same account cannot be added to multiple folders at the same time. Also, note that if inheritance mode is switched on, parent folders and the new folder will have the same share permission. That means, users who have access to the accounts stored in the parent folder(s), will get access to the accounts being added in this step.

Import Folders from Files

In situations where multiple folders are to be added, you have the option to import them from a file.

Navigate to Folders >> More >> Import Folders from Files.

You can either import folders from a CSV file or an Excel sheet.

Privileged	Account Manage	r						Qv	Search Accounts	2~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Rep	oorts	Admin	
Import Fol	lers From File						Help 🤨			^
							A note on c	reating th	he folder data to be imported:	
								irements,	exibility to create folders in bulk. you can have the following colu	
	CSV		XLSX						tion, Folder ID, Parent Folder ID, rmission, Notes	Inherit
Delimiter	each entry in your	CSV has been	separated				column • 'Folder identify reference	s are optio ID' is son each fo	ne unique number that you can older being created. This is ju se while importing. The ID will	give to st for
Comma Separate Choose a file	a vaiues		Browse				added give the parent	as the su e 'Folder II	is used to make any folder entry b-folder of another folder. You n D' of the parent folder here. If ther u want to add the folder directly nter '0'.	eed to e is no
Choose Parent Fole	ler *	~					make u	se of inhe	older Share Permission - if you w ritance, enter 'Yes'. Otherwise, ente older - Your administrators have e	r 'No'.

• For CSV files, you need to specify how the values have been separated. You can choose between comma-separated values and tab-separated values. This is not required in the case of Excel Sheet (XLSX) files.

Privileged A	ccount Manager							Q∨ Se	arch Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	: Rep	ports	Admin	
Import Folde	ers From File						Help 🤋			^
Choose a file	_	;	XLSX Browse				Securden off on your requ the input file. Folder Name Parent Folder • Of the column • 'Folder	fers the flexi irrements, yo , Description r Share perm above, 'Folo is are option ID' is some	folder data to be imported: bility to create folders in bulk. Ba u can have the following column n, Folder ID, Parent Folder ID, Inf ission, Notes ler Name' alone is mandatory. O al. unique number that you can give re being created. This is just	s in nerit ther e to
Choose Parent Folder None	ncel	~					referen display 'Parent added give the parent the root Inherit make u	ce purpose ed in the GUI Folder ID' is as the sub-t e 'Folder ID' of folder (you t folder), ente Parent Fold se of inherita	while importing. The ID will not , used to make any folder entry by folder of another folder. You need of the parent folder here. If there is want to add the folder directly un	t be eing d to s no nder t to No'.

- Choose the file from your computer by clicking on **Browse**.
- If the imported folder is not a subfolder of a parent folder, leave the Parent Folder as **--None--**. If the folder is a subfolder, select the parent folder from the drop-down.

Note: If your administrators have enabled the configuration to enforce the selection of a parent folder while adding/editing a folder, you will only be able to import folders only as subfolders to folders for which you have **Manage** permission or to the folders you own.

A note on creating the folder data to be imported:

Based on your requirements, you can have the following columns in the input file.

Folder Name, Description, Folder ID, Parent Folder ID, Inherit Parent Folder Share permission, Notes

• Of the above, Folder Name is mandatory. Other columns are optional.

- **Folder ID** is an unique number that you can give to identify each folder being imported. This is just for reference purposes while importing. The ID will not be displayed in the GUI.
- **Parent Folder ID** is used to make any folder entry being added as the sub-folder of another folder. You need to give the **Folder ID** of the parent folder here. If there is no parent folder (you want to add the folder directly under the root folder), enter **0**.
- Inherit Parent Folder Share Permission if you want to make use of inheritance, enter Yes. Otherwise, enter No.

Following are some sample entries:

IT Infrastructure, Description, 1,0, yes

Systems, Admin Team, 2, 1, yes

Windows, Tier 1 Team, 3, 2, yes

Linux, Tier 2 Team, 4, 2, no

This will create a folder structure as below:

IT Infrastructure

L

|___Systems

I

I

___Windows

|___Linux

Enable and Disable Inheritance

You can enable and disable permission inheritance whenever you want. You can select multiple folders and configure inheritance permission by navigating to Folders >> More >> Enable or disable Inheritance for Sub-Folders.

Privileged	Account Manager						Qv	Search Accounts	2~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin	
Folders	Add	More 👻 Q	Accounts	Share Appro	val Workflow	Remote Password Reset	Reports	Settings	
 IT Infras Local Ac 	Import Folders From File Share Folders Enable or Disable Inherita Delete Folders	nce for	Folder Nam Description Notes Folder ID Owner		IT Infrastru None 100000000 Securden A				
						ted folder / sub-folder fr me account cannot be par		pecific account could remain p one folder.	art one
				Add A		Remove Accounts Remove Account Name	counts Address	Showing 1 to 4 of 4 Type	25 🗸
			Adn Adn	ministrator	Ad	ministrator	sec-build-1.	securden.aws.com Windows M	lember 🗸

You can also modify inheritance settings for a specific folder by navigating to **Folders >> Share**. This option is visible only when the selected folder is a sub-folder. This option is not valid for parent folders and stand-alone folders.

Quick Access Options

In addition to selecting a parent folder while adding a folder using manual method and when importing from files, you can also create subfolders from the quick access pane on the left side of the Folders GUI. If you hover the pointer over a folder, you will see two icons. One with the folder symbol and the other with a settings symbol.

- 1. The Folder icon represents **Add Sub Folder**.
- 2. The Settings icon has three different options. **Edit**, **Transfer Ownership**, and **Delete**.

Add Sub Folder

If you click the Folder icon, you will be redirected to the add folder page and the parent folder section will be auto-filled. You will still have to provide the other required information as mentioned in the **Manually Adding Folders** section.

Edit

In this section, you can alter the details of a folder while retaining the accounts added to it. All the details of a folder can be altered.

If a folder having subfolders is edited, the new details will be enforced to the subfolders automatically.

Transfer Ownership

You can transfer the ownership of an entire folder to another user instead of transferring the accounts one by one. In such an event, the Transferer will lose access to the accounts in the folder and the Transferee will get complete ownership of the accounts in the folder. The share permissions of other users will not be affected due to an ownership transfer.

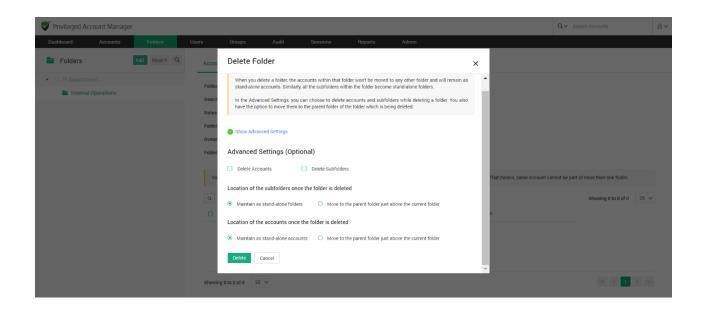
Privileged Account Manager	r								Q ← Search Accounts		8~
Dashboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Folders	Add More * Q	Accou	Transfer O	wnership			×	Settings			
IT Department Internal Operations		Folder Descrij Notes Folder	the transferee of the accounts th The transferee permissions of ownership tran	will get complete hat are owned by will get access t f other users to t	of the folder to any ot ownership of the folder the transferer will be tr o all the other account he folder will not get a ho transfers ownership e part of it.	The folder, along wit ansferred to the new us in the folder. The sl ffected due to the fo	h all user. hare older				
		Owner Folder You par		Cancel		× 0		ain part one folder/sub-folder o	nly. That means, same account can		l
			ccount Title	Move Ac	Address		Гуре		Showing 0 to 0 of 0	25 🗸	
						🗓 No data foun	d				Ţ

By default, Folders can only be transferred to Super Administrators, Administrators, and Account Managers. In the case of users with custom roles, the transferee should have add, edit, delete and share folder permissions.

To transfer the ownership of a folder, select the transferee from the list of users and click **Transfer**.

Delete

When you delete a folder, the accounts within that folder won't be moved to any other folder and will remain as stand-alone accounts. Similarly, all the subfolders within the folder become stand-alone folders.



In Advanced Settings, you can choose to

- 1. Delete the accounts inside the Folder.
- 2. Delete SubFolders and subsequently delete the accounts in SubFolders.

You can choose to maintain the folders and accounts as stand-alone or move them to the parent folder just above them in case you choose the accounts or the subfolders to not be deleted.

Deleting Multiple Folders

You can delete multiple folders at once. Navigate to **Folders** >> **More** >> **Delete Folders**.

Select the folders you want to delete and click **Delete Folders**.

Privileged A	.ccount Manager									Q ✓ Search Accounts	
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Delete Folde	rs										< Back
lf you want to	delete more than one fo	older at a time, you ca	an do so from here.	Select the folders to	be deleted and th	en click 'Delete Folders	' button.				
Q (0) III	Delete Folders									Showing 1 to 22 of 22	50 🗸
Folder Nam	ne ¢		F	older Description		Folder	Notes		Folder Owner		
API Test									Securden Adminis	trator	ŵ
Cisco Rou	ers								Securden Adminis	trator	
Client Sen	ices								Securden Adminis	trator	Ŵ
Databases									Securden Adminis	trator	Ŵ
File Server									Securden Adminis	trator	Ŵ
Internal									Securden Adminis	trator	ŵ
IT Infrastr	icture								Securden Adminis	trator	Ŵ
Juniper De	vices								Securden Adminis	trator	Ŵ
Linux									Securden Adminis	trator	Û

Manage Accounts in a Folder

You can add, search, move, and delete accounts by opening any folder for which you have **Manage** permission. An account can be a part of only one folder at any given time.

When you select a folder, the details such as the Folder Name, Description, Notes, Folder ID, and Owner (User name) will be displayed.

Below these details, the list of all accounts inside the folder will be displayed. The attributes of each account such as Account Title, Account Name, etc will be displayed. You can change which attribute to display by clicking on the **Column Chooser** icon.

You can view the list in batches of 25, 50, and 100 accounts at a time. To set the preferred batch size click on the drop-down button on the right-hand side of the Showing x to y of y.

Privileged A	Account Manage	er					Qv	Search Accounts	8
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin	
Folders	Ad	ld More ▼ Q	Accounts	Share Approv	val Workflow	Remote Password Reset	t Reports S	Settings	
🕨 🖿 IT Infrastro	ucture		Folder Nam	ne	IT Infrastru	icture			
🗋 Local Adm	inistrator Accounts		Description	1	None				
			Notes		-None				
			Folder ID		10000000	01098			
			Owner		Securden A	Administrator			
						ted folder / sub-folder fr me account cannot be par		ecific account could remain par one folder.	rt one
			QC	Add Ad	ccounts Mo	Remove Accounts	counts	Showing 1 to 4 of 4 2	5 🗸
				count Title ≑		Account Name		Address	
			Adr	ministrator		Administrator		sec-build-1.securden.aws	.com

Add Accounts

In addition to adding accounts at the time of folder creation, you can add accounts to a folder at any time. You can add accounts to a folder only if it is not already a part of another folder.

💙 Privileged Account Manager					Q~ s	earch Accounts	8~
Dashboard Accounts	Folders Users	Groups	Audit	Sessions	Reports	Admin	4
Folders Add	More ★ Q Ad	d Accounts to	the Folder				
IT Infrastructure	Fold	er Name		Folder Description			
🗀 Local Administrator Accounts	IT Ir	nfrastructure		Yet to give a descrip	otion		
		become a member of m h Accounts Based On ct	nuitipie tolders.	~			
		arch and select require	ed account(s) her	re			
		Juniour					

To add accounts to a folder,

- 1. Click on **Add Accounts**.
- Here you can fetch a list of accounts based on any attribute such as Account Title, Account Name, DNS/IP address, Account Type, Notes, and Tags.
- 3. Once you select the attribute, Securden will fetch accounts and display the list of accounts based on its attribute.

For example, if you choose DNS/IP address as the attribute, Then a list of all accounts in this DNS/IP address will be displayed for you to select the required accounts..

- If you want to clear a selection, click on `x' of the selected account. If you want to clear all the selected accounts, click on `Clear all'.
- 5. Once the required accounts are selected, Click 'Save'.

Search Accounts

You can search for accounts based on different attributes. This feature comes in handy when there are numerous accounts inside a folder.

💙 Privileged Account Manager			Q ← Search Accounts	۵.
Dashboard Accounts Folders	Users Groups Au	dit Sessions	Reports Admin	
Folders Add More - Q	Accounts Share Approval Work	flow Remote Password Reset	Reports Settings	
IT Infrastructure	X C III Add Accounts	Move Accounts Remove Acco	ounts Showing	1 to 4 of 4 25 🗸
Local Administrator Accounts	Account Title 🗢	Account Name	Address	Туре
	Administrator	Administrator	sec-build-1.securden.aws.com	Windows Member
	Cisco Ios	admin	1.1.1.1	Cisco IOS
	SEO logs	SEOKing	1.162.78.2	Azure AD
	sercer	server	test	Windows Domain
	Showing 1 to 4 of 4 $25 \sim$			« < 1 > »

To search for accounts,

- 1. Click on the **Magnifying glass** icon present in Folders >> Accounts.
- 2. Give the input attribute(s) to search for.
- From the list, you can select the accounts you want. If you want to select all accounts from the search result, click on the checkbox beside Account Title.

Move Accounts

You can move accounts from one folder to another, however an account can only be a part of one folder at a time. The accounts being moved will have the same share permissions and the inheritance preferences of the destination folder.

To move accounts from one folder to another,

- 1. Open the folder in which the accounts are currently present.
- 2. Select the accounts you want to move.

3. Click on **Move Accounts**.

Privileged Account Manager				Q ∼ Search Ac	counts &
Dashboard Accounts	Folders Use	rs Groups	Audit Sessions	Reports Adr	nin
Folders Add	More - Q A	ccounts Share Approv	al Workflow Remote Password	Reset Reports Settings	
T Infrastructure		X C III Add Ac	counts Move Accounts Remo	ve Accounts St	howing 1 to 4 of 4 $25 \vee$
Local Administrator Accounts		Account Title 🗧	Account Name	Address	Туре
		 Administrator 	Administrator	sec-build-1.securden.aw	s.com Windows Member
		Cisco los	admin	1.1.1.1	Cisco IOS
		SEO logs	SEOKing	1.162.78.2	Azure AD
		sercer	server	test	Windows Domain
		Showing 1 to 4 of 4 25 \screw			

- 4. In the GUI that pops up, select the destination folder.
- 5. Click Move.

Privileged Acc	ount Manage										Q٧		8~
Dashboard	Accounts	Folders	Use	rs Gr	oups Audi	t Sessi	ons Reports	s Admin					
Folders		Add More - Q		Accounts	Move Sele	ected Accou	ints to Anothei	r Folder	×				
 IT Departme Internal C 				Folder Name Description Notes Folder ID Owner Folder Path	moved comp (including the Select Destination F Internal Operatio	etely to the other fo inheritance permis	one folder to another first older. The account(s) bein sions) of the destination	ng moved will take the					
				You can ad	d					lder only. That means, same	e account cannot be p	art of more than one folder.	
				QC	III Add Accounts	Move Accounts	Remove Accounts					Showing 1 to 2 of 2	25 🗸
				Account	t Title		Address		Туре		Tags		
				🗹 Email lo	ogin		192.168.72.2		Azure AD				
				🗌 File					File Store		Mark		
				Showing 1 to 2	e of 2 25 ∨							« < 1	> >>

Remove Accounts

You can remove the accounts from a folder and make them stand-alone accounts.

To remove accounts from a folder,

- 1. Open the required folder.
- 2. Select the accounts you want to remove.
- 3. Click on Remove Accounts
- 4. In the confirmation window, Click **OK**

ashboard	Accounts	Folders	Users	Groups	Audit Sessions	Reports	Admin
Folders	Add	More 👻 🔍	Accounts	Share Approv	al Workflow Remote Password	Reset Reports Setting	\$
IT Infrastruc	cture		×	C III Add Ace	counts Move Accounts Remo	ove Accounts	Showing 1 to 4 of 4 $25 \sim$
🗋 Local Admir	nistrator Accounts			ccount Title 🗢	Account Name	Address	Туре
			Z 4	Administrator	Administrator	sec-build-1.securde	en.aws.com Windows Member
				Cisco los	admin	1.1.1.1	Cisco IOS
				SEO logs	SEOKing	1.162.78.2	Azure AD
			s	sercer	server	test	Windows Domain

Share Folders

You can share multiple accounts at the same time by sharing a folder with Users and Groups. In addition to sharing accounts, you are also sharing the folder with well-defined privileges.

There are different folder management privileges and account management privileges in Securden. When you want to share a folder, you can select what privileges you want to grant to the users/groups with whom you want to share the folder.

Note: When viewing the share settings of a sub-folder, the share permission settings will be displayed. You can turn inheritance of permissions On and Off as required from here.

Folder Management Privileges

- 'View Folder Details' privilege allows the users/groups to simply view the folder properties. They are not allowed to modify anything.
- 'Add Accounts to Folder' privilege allows the users/groups to view the folder properties as well as add accounts to the folder.
- 'Manage Folder' privilege grants all permissions view, modify properties, share the folder with others and add accounts.

Account Access / Management Privileges

• 'Open Connection' allows launching RDP, SSH sessions with target machines, and auto-filling credentials for web applications without showing the underlying password in plain text in the GUI.

- **View** allows the user to view the details as well as the password.
- **Modify** allows editing the password.
- Manage grants all privileges including subsequent share permissions.

To Share a Folder,

- 1. Navigate to Folders >> <Folder Name> >> Share >> Share Folder.
- Select Users or Groups by clicking on the drop-down named Share with.
- 3. You can select the users/groups with whom you want to share by traversing the list from 'Search and Select Users/Groups'. You can add multiple users and groups at the same time.
- 4. To remove a user/group from the selected list click on the **x**. If you want to clear all the selected users/groups, click on **Clear All**.

Privileged A	Account Manage	er					Q~ :	Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin	
Folders	Ad	d More 👻 Q	Share	e Folder					^
🕨 🖿 IT Infrastru	icture							ng a folder, you can define I the other for the account:	
🗋 Local Adm	inistrator Accounts			are part of the fold			lighting the release and		
			Share wit	h					
			Select			~			. 1
			Search	n and select users /	groups				
			Define I	Folder Manageme	nt Privilege				
			View Fol	der Details		~			
			Define	Account Access /	Management Pr	ivileae			

424 Securden Unified PAM

- 5. Define the folder management privileges and the account management privileges according to the definitions from above.
- 6. Click **Save**.

Share Multiple Folders

- 1. Navigate to Folders >> More >> Share Folders.
- 2. Select the folders you want to share.

Privileged	Account Manage	er						Q ← Search Accounts		8
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Rep	orts Admin		
Share Multip	le Folders								< Bac	sk
You can shar	e more than one folde	r with users or grou	ps. Just select th	ne required folders to b	e shared and	click the button 'Shar	re Folders'	1		
Q C III	Share Folders							Showing 1 to 22 of 22	100 ~	
Folder Nar	ne 🌩			Folder Description		Folder Notes		Folder Owner		
API Test								Securden Administrator	Ш	
Cisco Rou	ters							Securden Administrator	Ŵ	
Client Ser	vices							Securden Administrator	Ш	
Databases	5							Securden Administrator	Ŵ	
File Serve	r							Securden Administrator	Ш	
_									-	

3. You can choose to not disturb existing shares and append the new share permissions wherever applicable. Doing so will imply that the share

permissions can only be elevated. If a lower level of permission is selected, it will not take effect.

4. Define the folder and account management privileges by selecting the appropriate options. *To learn more about the different levels of permissions, refer to the sections above.*

Remove Share for a Folder

To **Remove** a Share, Navigate to **Folders >> Share.**

- 1. Select the user by clicking on the check box.
- 2. Click **Remove Share**.
- 3. Click OK on the confirmation dialog box.

ashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin	
Folders	Add	More 👻 Q	Accounts	Share Appro	val Workflow	Remote Password Reset	Reports Setting	S	
IT Infrastruc	ture		Q	C Share Folder	Remove Sha			Showing 1 to 1 of 1	25 🗸
🗋 Local Admin	istrator Accounts				Themove on				
				sername		Folder Share	Manage	Modify	Vie
			□ 2	Securden Admin	S	View Folder Details	×	×	~

Configure Approval Workflow for Folders

Instead of granting standing access to users, you can enforce just-in-time access at the folder level by using the approval workflow in Securden.

When users need access, they can place requests. One or more administrators will review before approving the request. There can be more than one level of approval with multiple approvers in each level. Upon approval, the password will be released. When the access ends, the password will be auto changed.

Privileged	Account Manager						Q	 Search Accounts 	2~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin	
Folders	Add	More 👻 Q	Accounts	Share Appro	val Workflow	Remote Password Reset	Reports	Settings	
 IT Infrast Local Adr 	ructure ministrator Accounts		acces	s. One or more a val, and multiple	dministrators v approvers on	vill review the request and	grant appro Il be releas	e users to raise requests for time- val. There can be more than one l ed, and at the end of the acce d workflow.	level of
			Speci from u			istrators who can approve p	password ac	ccess requests	
				Second Level App	rovers				

To Designate Approvers,

- 1. Navigate to Folders >> Approval Workflow >> Designate Approvers.
- 2. You can search for a specific user or a user group. You can select multiple users and user groups as approvers at the same time.
- To remove a certain User or a User Group from the selection, click on x.
 To clear all selections, click Clear All.
- To designate second level of approvers, click on Add Second Level Approvers. Follow steps 2 and 3 to designate the second-level approvers.

The request will reach the second-level approvers only after it is approved by the first-level approvers.

To designate subsequent levels of approvers, follow the same steps as above.

Exclusion List

You can grant direct access to passwords for any users or groups without going through the approval process, by adding them to the exclusion list.

To create an exclusion list,

- 1. Click on Add Exclusion List.
- Search for the users/user groups and select the ones to be added to the list.
- To remove a certain user or a user group from the selection, click on x.
 To clear all selections, click Clear All.

To automatically renew the passwords after the access is terminated, click on the checkbox named **Change Password After Use**.

In a situation where the approver(s) might not be available to approve requests, you can configure automatic approval of requests.

- 1. Click the checkbox named **Configure Automatic Approval**.
- 2. You can choose between approving requests throughout the day or between certain hours.

Click Save.

To Remove/Edit a designated approver after configuring approval workflow, you can click 'Edit' from **Folders >> Approval Workflow**.

To reset the configurations, you can click **Disable** from the same GUI.

Configure Automated, Periodic Remote Password Resets

You can configure to reset the passwords of accounts contained in the folder by navigating to **Folders** >> **<Folder Name>** >> **Remote Password Reset**. There are two options to choose from when you schedule a password reset for a folder.

1. Reset Once

2. Reset Periodically

You can reset once on a specific date and time or you can configure a periodic reset to be taken in intervals as low as an hour.

If you choose 'Reset Once', follow the steps to schedule a backup

- 1. Specify the date of reset from the calendar by clicking on the date format text.
- 2. Specify the time of reset in the format [hh mm].
- 3. Specify how often to retry password reset.
- 4. Specify the maximum number of resets to be attempted.

If you choose **Reset Periodically**, follow the steps to schedule backups

1. Specify the date of the first reset from the calendar by clicking on the date format text.

- 2. Specify the time of the first reset in the format [hh mm].
- 3. Specify the periodicity of password reset. You can configure a periodicity as low as an hour.
- 4. Specify the maximum number of resets to be attempted.

You can select options shown to notify the folder owner and the users with shared manage access. You can also include recipients to notify by specifying their email addresses in comma separated form.

To disable an already existing schedule, click on **Disable**. Click **Save**.

Troubleshooting Tips

1) **Issue:** Issue with Domain Admin accounts. The user has put them in a folder and has been using remote password reset functionality, but when it runs it shows the following error.

Error: Possible reasons: (1) Invalid credentials. (2) Remote connection privileges for this account could have been disabled on the remote computer. Password on both side (Securden and AD) is the same and the user uses a domain admin account for remote.

Solution:

One possible reason could be that WMI connectivity might not be available. We use WMI protocol for password resets and verifications. By default, WMI remains disabled for all local users except for the built-in administrator accounts.

You may follow the steps below to enable WMI access on a specific Windows machine:

https://www.securden.com/documents/WMI-Access-for-All-Users.pdf

In case you wish to enable WMI on multiple machines, you may refer to the link below:

https://www.securden.com/documents/WMI-Access-For-All-Users-GPO.pdf

2) **Issue:**

I am trying to let local admin accounts from a PC, and I get an error "The username/password does not exist (or) the user does not have the remote launch or remote."

Solution: It might be an account permission issue. Try to re-run the discovery by providing a domain admin credential.

Navigate to Accounts >> Discover Accounts >> Windows. Click "Modify" >> Enter username and password

You can enter a domain admin credential and try to discover the computers again to fetch local accounts. If it still fails, please try disabling the firewall and check once again.

Folder Reports

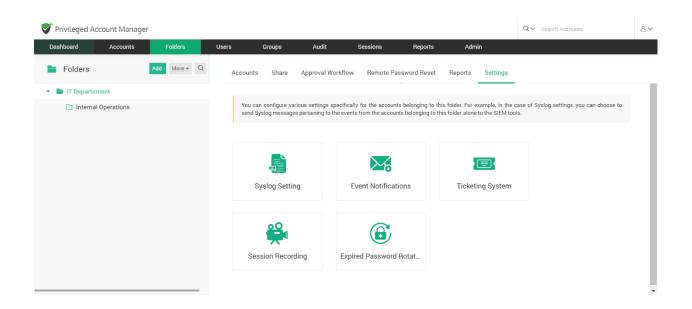
You can generate and view various actionable reports with the data specific to the selected folder.

Privileged A	Account Manager						Q	✓ Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin	
Folders	Add	More 👻 Q	Accounts	Share Appro	val Workflow	Remote Password Reset	Reports	Settings	
🕨 🖿 IT Infrastru	ıcture		Export	~		Last generated on 07 No	v 2022 16:49	Download as CSV	
🗋 Local Adm	inistrator Accounts			-		,			
			Mos	t used accounts	during the pa	st 30 days (j			
								Administrator@sec-buil SEO logs@1.162.78.2	
								sercer@test Cisco los@1.1.1.1	
									-

You can view the most used accounts, most active users, accounts and activity trails of the selected folder.

Folder Settings

Certain settings such as session recording, syslog settings, etc., can be configured for accounts at a folder level in addition to being configured at an account level. For example, in the case of Syslog settings, you can choose to send Syslog messages pertaining to the events from the accounts belonging to this folder alone to the SIEM tools.



Syslog Settings

You can configure Syslog preferences for Folders. Navigate to **Folders** >> **Select a Folder** >> **Settings** >> **Syslog Settings**.

Pre-requisite: You need to configure the Syslog settings from **Admin** >> **Syslog for SIEM** to be able to access this folder level setting.

You can select the account related activities for which you want to maintain a Syslog.

The folder-specific settings will get the preference over the global settings that were configured in **Admin >> Syslog for SIEM**.

Event Notification at a Folder level

When certain events occur, such as password recovery at the folder level, deletion, or changes in sharing permissions, Securden can send email notifications. You have the option of selecting which events you want to be notified about. The notifications can be sent out in real-time or as a consolidated email once a day.

Configuring Event Notifications

To start setting your preferences in receiving notifications, you need to toggle the Configure Notifications button. You will see a field named **Events related to actions on accounts**.

💎 Privileged Account Manager					Q.,	✓ Search Accounts	8~
Dashboard Accounts	Folders	Users G	roups Audit	Sessions	Reports	Admin	
Folders Add	More 👻 Q	Accounts Sha	are Approval Workflow	Remote Password Reset	Reports	Settings	
IT Infrastructure		Event Notific	cations < Back				- 1
Local Administrator Accounts		Lvent Notine					. 1
		change in s	hare permissions and othe s can be triggered real-time	ers. You can choose the ev	ents for whi	nts such as password retrieval, deletion, ch you want to receive notifications. The day.	ļ
		Select the even	ts for which you want to re	ceive notifications from th	e list below.		
		Events related t	to actions on accounts			Clear All	
		Account Del	eted ×				
		When do you v	want to receive notification	ons?			Ţ

To add events, click on **Select Events** under **Events related to actions on accounts** and select the events you want to get notified about from the list.

The selected events will be shown in a green box and can be deselected by clicking on the \mathbf{x} present adjacent to the event. To clear all selected events, click on the **Clear All** button.

When to Notify?

You can choose to either get notified **As and when the events occur** or **As a consolidated email, once a day**.

Who to Notify?

You can choose who receives notification emails by selecting the options in the checklist present under **Send Notifications to**. If you select **All**

Administrators, users with **Administrator** or **Super Administrator** designation will be notified.

If you select **All Auditors**, the users with auditor role designated to them will be notified.

You can also configure to notify specific users or a group of users by selecting **Select Users/Groups**.

You can send notifications to people who are not registered users in Securden by specifying their email address in the box named **Others (specify email address)**. When more than one email address needs to be notified, separate the emails with a comma(,).

Click Save.

Ticketing System integration at a Folder level

To use the ticketing system for a folder and its accounts, you need to configure the ticketing system from **Admin >> Ticketing System**.

Once the ticketing system has been configured, you can toggle this feature On for specific accounts and folders. Navigate to Folders >> Settings >> Ticketing System to toggle this feature On or Off.

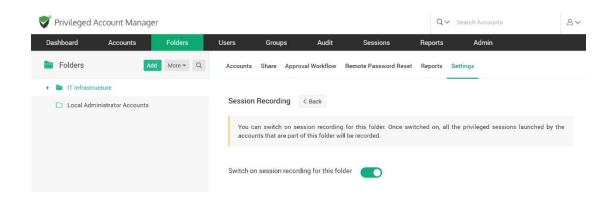
Exclusion List

You can exclude specific users or groups, with whom the folder is shared, from going through the ticket validation by including them in the exclusion list.

Session Recording at the Folder level

You can switch ON the session recording feature at the folder level. Doing this records a video copy of remote sessions launched from all accounts that are a part of the folder.

Note: Switching this feature ON is a second step of configuring session recording in Securden. You need to configure preferences in **Admin** >> **Remote Sessions and Recordings** >> **Session Recording** before you can turn this feature ON for the folder of your choice.

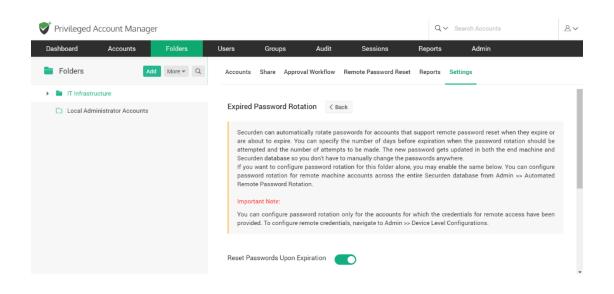


Expired Password Rotation

When passwords expire or are about to expire, Securden can automatically rotate them for you without manual intervention. You can indicate the number of days until the password expires after which password rotation will be tried, as well as the number of attempts.

You don't have to change passwords manually anywhere because the new password is updated in both the end machine as well as the Securden database.

If you only want to configure password rotation for the accounts contained within a folder, you may do it from **Folders** >> **Settings** >> **Expired Password Rotation**.



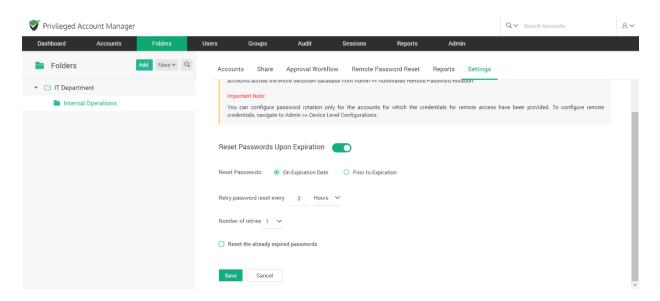
You can set password rotation for remote machine accounts across the entire Securden database by navigating to **Admin >> Automated Remote Password Rotation**.

Important Note: You can configure password rotation only for the accounts for which the credentials for remote access have been provided. To configure remote credentials, navigate to **Admin >> Device Level Configurations.**

You can configure Securden to carry out password changes either **On Expiration Date** or a few days **Prior to Expiration** date.

If you choose **On Expiration Date**

- 1. You need to provide the frequency of password reset, which can be as low as a minute.
- 2. You should also specify the maximum number of attempts to be made to reset a password in the field named **Number of retries**.
- 3. You can choose to **Reset the already expired passwords**. Securden will try to reset the expired passwords at the time of configuration.



If you choose Prior to Expiration,

- 1. You need to provide the frequency of password reset, which can be as low as a minute.
- 2. You should also specify the maximum number of attempts to be made to reset a password in the field named **Number of retries**.
- 3. You should specify how many days before the expiration date the reset attempts should be made.
- 4. You can choose to make reset attempts in accounts whose passwords are about to expire and the passwords that have already expired by clicking on the respective checkboxes.

V	Privileged A	count Manage	r								Q ✓ Search Accounts	8~
	Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Adm	in		
	Folders		Add More ▼ Q	Acco	unts Share	Approval Workf	low Remote Pa	assword Reset	Reports	Settings		
*	🗋 IT Departm	ient										
	🖿 Interna	l Operations		Rese	et Passwords U	Ipon Expiration						
				Reset	Passwords:) On Expiration Date	Prior to Exp	piration				4
				Reset	passwords 3	days prior to the	date of expiration.					- 1
				Retry	password reset eve	ery 5 Hours	~					
				Numb	per of retries 2	~						- 1
				D R	eset the already exp	pired passwords						
				Z C	onsider only the pa	sswords that are abo	ut to expire.					- 1
				Sat	ve Cancel							×

Precedence of user-level privilege

When a user is part of a group, and if an account is shared with different levels of privileges with that group, and as well as the individual user, the privilege granted on the user-level will take precedence over the privilege granted on a group-level.

For example, let us say there is an account, user, and group named *Account1*, *UserA*, and *Group1* respectively.

Consider,

- UserA is a member of Group1
- Account1 is shared with 'Open Connection' permission individually to UserA
- Account1 is shared with **Modify** permission to Group1

Then, the UserA will only have **Open Connection** access to Account1, and not **Modify** access.

Precedence of least privilege

When an account/folder is shared with many groups with different privileges, and if same user is a member of all those groups, the user can access the account/folder only with the 'least level of privilege' given amongst the groups.

For example, let us say there is an account, folder, user, and groups named Account1, Folder1, UserA, Group1, and Group2 respectively.

Consider,

- UserA is a member of both Group1 and Group2.
- Account1 is shared with 'Manage' permission to Group1 and 'Modify' permission to Group2.

Now, the UserA will only have 'Modify' access over Account1, and not 'Manage' permission.

Precedence of account-level access over the folder-level

If a folder and an account has been shared with different levels of privileges to a user, and even if the same account is present within that folder, the user will still have account-level access over that folder and will not be able to access it with folder-level permission.

For example, let us say there is an account, folder, user, and groups named Account1, Folder1, UserA, Group1, and Group2 respectively.

Consider,

- Account1 is a part of Folder1.
- UserA is a part of both Group1 and Group2.
- Group1 has 'Manage' (folder-level) permission over Folder1, and Group2 has 'View' (account-level) permission over Account1, which is inside Folder1.

Now, the UserA will only have account-level **View** access to Account1 and will not be able to access the account with folder-level **Manage** access.

Section 9: Audits

Securden captures all activities in the form of audit trails. You can view and search the trails to find 'who' did 'what' and 'when'. In addition, you can also gain security insights with various analytical reports. activities capture the activities on the accounts. User activities capture the activities of the Users. To view the audit trails, navigate to the '**Audit**' tab in the GUI. The trails are classified into three categories:

- Account activities
- User activities
- Session activities

Account activities:

Account activities include all the activities related to the accounts that occur in Securden like changes in passwords account addition, deletion, modification and, so on. Activities across all accounts are recorded and can be tracked. It displays the dates and times that an account or file is handled, as well as the names of users who have retrieved, modified, or added it.

Navigate to Audit>> Account Activities to view account logs.

Privileged Accoun	t Manager						Q ✓ Search Accounts	
Dashboard Ad	counts	Folders	Users Groups	Audit	Sessions F	Reports Admin		
Account Activities	User Acti	vities Sessio	on Trails					
	1							
All activities performed	in general are c	aptured here as au	dit trails.					
Q C III Exp	ort 🗸 Scher	dule Export					Showing 1 to 25 of 99 25	~
Account Title	Account	Address	Activity Type	Performed By	Performed Fro	Performed At ¢	Reason	
IT Department (Folder)	N/A		Folder modified	Securden Administrato	W10PF2YAS0	P 26 Jul 2023 00:05	🕒 Modified : Name	
Internal Operations (Folde	r) N/A		Folder added	Securden Administrato	DT W10PF2YAS0	P 26 Jul 2023 00:00		
IT Departement (Folder)	N/A		Folder modified	Securden Administrato	W10PF2YAS0	P 26 Jul 2023 00:00	🗐 Modified : Name	
Server3	173.134	.23.4	Account shared with user	Securden Administrato	W10PF2YAS0	P 25 Jul 2023 12:11) Shared to Terry Cruise. Shar	
Server3	173.134	.23.4	Account shared with user	Securden Administrato	Dr W10PF2YAS0	P 25 Jul 2023 12:10	国 Shared to Frankel Lampard	
Server3	173.134	.23.4	Account shared with user	Securden Administrato	W10PF2YAS0	P 25 Jul 2023 12:09	🗐 Shared to Jonathan Ridge	
Server3	173.134	.23.4	Account password changed lo	Securden Administrato	DF W10PF2YAS0	P 24 Jul 2023 23:32		

Filtering data from audit records:

You can acquire a concise report by filtering and viewing only the records that satisfy your criteria. To filter, click on the **Search** tab. You can search through the audit filter with the following labels:

Parameter	Description
Performed by	The user who performed the operation.
Performed from	The name of the device where the operation was done.
Performed at	The time at which the operation took place.
Activity type	The type of action performed by the user.

Username	The name of the user who triggered the action.
Reason	The reason behind the particular activity is noted and displayed.
Account Title	The name of the account on which the user performed the activity.
Account address	The IP address of the device on which the account activity was performed.

For instance, If deletion of password occurs in a particular account and you want to see them, you can view them in the account activities and with the help of the available filters you can view the exact data you require.

Column chooser:

You have the option to select which columns are displayed under account activity audits. Click the column chooser icon – shown below.

Privileged Account Manage			_	_						earch Accounts	
Dashboard Accounts	Folders	Users	Groups A	udit	Sessions	Reports	Admin				
Account Activities User A	tivities Session	Trails									
All activities performed in general a	e captured here as audit t	rails.									
Q C III Export V So	hedule Export									Showing 1 to 7 of 7	25
Account Title	Account Address		ctivity Type		Performed By		Performed From	Performed At 😄	Rez		
Account The	Account Address	~	cuvity type		Performed by		Performed From	Performed At \downarrow	nee	Ison	
Cisco	192.168.72.2	A	ccount added		Securden Adminis	trator	W10PF2YAS0P	11 Apr 2023 18:43			
Skype	N/A	A	pplication Launcher add	led	Securden Adminis	trator	W10PF2YAS0P	11 Apr 2023 18:43			
Zoom	N/A	A	pplication Launcher add	led	Securden Adminis	trator	W10PF2YAS0P	11 Apr 2023 18:42			
N/A	N/A	U	Iser Asset Associations	for launching	Securden Adminis	trator	W10PF2YAS0P	11 Apr 2023 18:42	Ð	User	
Custom Gateway (Remote Gateway)	N/A	R	lemote Gateway Modifie	d	Securden Adminis	trator	W10PF2YAS0P	11 Apr 2023 18:42			
N/A	N/A	U	Iser Asset Associations	for launching	Securden Adminis	trator	W10PF2YAS0P	11 Apr 2023 18:40	B	User	
N/A	N/A	A	sset for launching remo	te connection	Securden Adminis	trator	W10PF2YAS0P	11 Apr 2023 18:40	Đ	Sequel	

The search columns can display different label columns according to the requirements of the user. At a time, any six columns can be selected for display from the following nine categories – Account Title, Account Name, Account Address, Activity Type, Performed By, Performed From, Performed At, Performed Over, Reason.

Deakboard Account Folders Users Orcups Madit Deakboard Reports Admin Account Activities Lassestion Trails	Privileged Account Manag									Column Chooser	
Alachtyches performed in general are ceptured here as audit trait. 	Dashboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		Account Title	
a c b b b b b b b b b b b b b b b b b b	Account Activities User /	Activities Sessio	on Trails							Account Name	
Q Q Recourt Addresse Activity Type Performed Pyon Performed Af : Performed Af : Performed Af : Performed Pyon Account Address Account Address Account Address Account Address Recurden Administrator W10PF2VAS0P 11 Apr 2023 18.43 Performed Af : Performed Over Performed Over Performed Af : Performed Over Performed Af : Performed Over Performed Over Performed Af : Performed Over Performed Af : Performed Over Performed Over Performed Af : Performed Af : Performed Over Performed Over Performed Af : Performed Af : <td< td=""><td>All activities performed in general</td><td>are captured here as au</td><td>lit trails.</td><td></td><td></td><td></td><td></td><td></td><td></td><td>Account Address</td><td></td></td<>	All activities performed in general	are captured here as au	lit trails.							Account Address	
Account Address Actively type Performet by Performet by Performet by Performet by Cisco 192.168.72.2 Account address Securetin Administrator W10PF2VAS0P 11 Apr 2023 18.43 Image: Performed From Biope N/A Application Launcher addred Securetin Administrator W10PF2VAS0P 11 Apr 2023 18.43 Image: Performed Atministrator Zoom N/A Application Launcher addred Securetin Administrator W10PF2VAS0P 11 Apr 2023 18.42 Image: Performed Atministrator N/A N/A User Asset Associations for launching Securetin Administrator W10PF2VAS0P 11 Apr 2023 18.42 Image: Performed From N/A N/A Renote Gateway Modified Securetin Administrator W10PF2VAS0P 11 Apr 2023 18.42 Image: Performed From N/A User Asset Associations for launching Securetin Administrator W10PF2VAS0P 11 Apr 2023 18.42 Image: Performed From	Q C III Export ~	Schedule Export								Activity Type	
Lick NZ Account above Securiter Administration NTIPPEYASIOP 11 App 2023 18:43 Image 2003 18:43 Stype N/A Application Launcher added Securiter Administrator NTOPPEYASIOP 11 App 2023 18:43 Image 2003 18:43 Zoom N/A Application Launcher added Securiter Administrator NTOPPEYASIOP 11 App 2023 18:42 Image 2003 18:42 N/A N/A User Asset Associations for launching Securiter Administrator NTOPPEYASIOP 11 App 2023 18:42 Image 2003 18:42 Distorn Gateway (Remote Gateway N/A Remote Gateway Modified Securiter Administrator NTOPPEYASIOP 11 App 2023 18:42 Image 2003 18:42 N/A User Asset Associations for launching Securiter Administrator NTOPPEYASIOP 11 App 2023 18:42 Image 2003 18:42 N/A User Asset Associations for launching Securiter Administrator NTOPPEYASIOP 11 App 2023 18:42 Image 2003 18:42 N/A User Asset Associations for launching Securiter Administrator NTOPPEYASIOP 11 App 2023 18:42 Image 2003 18:42 N/A User Asset Associations for launching Securiter Administrator NTOPPEYASIOP 11 App 2023 18:42 Image 2004 11 App 2023 18:42	Account Title	Account Address		Activity Type		Performed By		Performed From	Performed At o	Performed By	
Barpe RA Application Laincher abed Sectimen Administration NTIPEr Volume The public at a sad Zoom N/A Application Launcher added Securiden Administration W10PF2VAS0P 11 Apr 2023 18.42 Performed Over N/A N/A User Asset Associations for Jaunching _ Securiden Administration W10PF2VAS0P 11 Apr 2023 18.42 It Reason Quotom Gateway (Remote Gateway N/A Remote Gateway Modified Securiden Administration W10PF2VAS0P 11 Apr 2023 18.42 N/A User Asset Associations for Jaunching _ Securiden Administration W10PF2VAS0P 11 Apr 2023 18.42 Execuriden Administration	Cisco	192.168.72.2		Account added		Securden Admini	strator	W10PF2YAS0P	11 Apr 2023 18:43	Performed From	
Zoom N/A Application Launcher abord asculater Administration W10Pr2VAS0P 11 Apr 2023 18 42 N/A N/A User Asset Associations for Launching Securiter Administration W10Pr2VAS0P 11 Apr 2023 18 42 Custom Gateway (Remote Gateway) N/A Remote Gateway Modified Securiter Administrator W10Pr2VAS0P 11 Apr 2023 18 42 N/A N/A User Asset Associations for Launching Securiter Administrator W10Pr2VAS0P 11 Apr 2023 18 42	Skype	N/A		Application Laun	cher added	Securden Admini	strator	W10PF2YAS0P	11 Apr 2023 18:43	Performed At	
N/A IVA Over Asset Associations for Haunching decuritien Administrator W10PF2YAS0P 11 Apr 2023 18.42 Custom Gateway (Remote Gateway) N/A Remote Gateway Modified Securitien Administrator W10PF2YAS0P 11 Apr 2023 18.42 N/A N/A User Asset Associations for launching Securitien Administrator W10PF2YAS0P 11 Apr 2023 18.42	Zoom	N/A		Application Laun	cher added	Securden Admini	strator	W10PF2YAS0P	11 Apr 2023 18:42	Performed Over	
N/A User Asset Associations for launching _ Securiter Administrator W10PF2YAS0P 11 Apr 2023 18:40	N/A	N/A		User Asset Assoc	iations for launching	Securden Admini	strator	W10PF2YAS0P	11 Apr 2023 18:42	Reason	
	Custom Gateway (Remote Gateway)	N/A		Remote Gateway	Modified	Securden Admini	strator	W10PF2YAS0P	11 Apr 2023 18:42	Save Cancel	
N/A N/A Asset for launching remote connection. Securden Administrator W10PF2YAS0P 11 Apr 2023 18:40	N/A	N/A		User Asset Assoc	iations for launching	Securden Admini	strator	W10PF2YAS0P	11 Apr 2023 18:40		
	N/A	N/A		Asset for launching	ng remote connection	Securden Admini	strator	W10PF2YAS0P	11 Apr 2023 18:40		

For instance, if you want to have a report solely consisting of activity type and who it was performed by, you can select those columns and download the report. An example screenshot is attached below:

Privileged Acco	ount Manager									Q 🗸 Search Accounts	
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Account Activit	ies User Acti	vities Sessio	on Trails								
All activities perfor	rmed in general are c	aptured here as aud	lit trails.								
Q (C) III	Export V Schee	dule Export								Showing 1 to 7	of 7 25
Activity Type	PDF						Performed By				
Account added	CSV						Securden Admini	strator			
Application Launcher	added						Securden Admini	strator			
Application Launcher	added						Securden Admini	strator			
User Asset Associatio	ons for launching rem	note connections mo	odified				Securden Admini	strator			
Remote Gateway Mod	dified						Securden Admini	strator			
User Asset Associatio	ons for launching rem	note connections ad	ded				Securden Admini	strator			
Asset for launching re	emote connections a	dded					Securden Admini	strator			
Showing 1 to 7 of 7	25 🗸									×< <	1 > >

Exporting the filtered data:

After the screening process of audit trails and securing the required audit, it can be exported for various investigation purposes. Navigate to the **'Export'** tab and select the required format.

There are three formats available and they are:

- PDF
- CSV
- XLSX

Click on the **Download as** to get the report to your system. The date and time at which the report was generated is also displayed.

Schedule Export of Account and User activities:

The exporting of audit data can be scheduled on a periodic basis or at once, in a time frame by selecting the required report format. To download the report, the link will be sent to the specified recipients. Navigate to the **Schedule Export** tab.

Firstly, the report format must be selected among the three options which are **PDF, CSV, XLSX**. Then the interval must be specified by choosing **Export Once** or **Export Periodically** according to the needs of the user.

Note: The execution time you set will follow the current time indicated in the server in which Securden runs and the current timing along with the date is displayed.

The date and the timing of the export must be specified in the formats of DD/MM/YYYY and in the 24 hour format HH:MM respectively. The same can be notified to different levels of users:

- Administrators
- Super Administrators
- Auditors
- Select users/groups

After selecting the recipients, click **Save**.

Privileged Accour	nt Manager			Contact Technical	Support	et Quote		Q~	Search Accounts		8~
ashboard Accou	nts Folde	ers Users	Groups	Audit	Sessions	Reports	Adm	in			
Periodically Export Account Activities > Activ		Report > Periodically Expo	ort							< Bac	k
Select Report Forn	nat										
S PDF	⊖ csv	⊖ xlsx									
Specify the Interva	I										
O Export Once	S Export Pe	eriodically									
Note: The current time on	the server in whic	ch Securden runs is 10 A	Apr 2023 16:0	06 hrs. The executio	n time you set	here will follow the	e server tin	ne.			
Export periodically st	arting from DD/N	/M/YYYY at HH \checkmark	MM V	hrs							
Export every	Days 🗸										
Privileged Accou	nt Manager			Contact Technica	I Support	Get Quote		Q~	Search Accounts		8

Privileged	ACCOUNT Man	lager			Contact rechni	cal support Get	Quote	4	 Search Accounts 		\frown \checkmark
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Periodically Account Activitie	Export > Activities on A	ccounts Report	Periodically Exp	port						< Back	
Export ever	y Days	~									
Notify											
Admini	strators										- 1
Super /	Administrators										
Audito	rs										
Select	users/groups										
Save											

The only difference when you export periodically is that you need to specify the periodicity in terms of **Days, Months and Hours**.

Privilegeo	d Account Ma	nager			Contact Technica	I Support Get	Quote	3	Q ∨ Search Accounts		8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admi	n		
Periodically Account Activiti		Accounts Report	> Periodically Expo	rt						< Back	
Select Rep	ort Format										
S PDF	0	CSV	O XLSX								
Specify the	Interval										
O Export 0	Once 🥝	Export Periodica	ally								
Note: The curre	ent time on the ser	ver in which Sec	urden runs is 10 Aj	or 2023 16:1	0 hrs. The executio	on time you set h	ere will follow the se	erver tim	e.		
Export peri	odically starting fr	om DD/MM/YY	YY at HH 🗸	MM ¥	hrs						
Export eve	ry Days	~									

For instance, If you want to avail the audit report in a CSV form you can easily export and download them. Also if you want them to be exported everyday at 10.00 AM, you can customize and schedule the time and get them exported in any format you expect.

Notify

Navigate to the **Schedule Export** tab and under that you can find the set of users, to whom the link will be sent to download certain reports. When we want to track specific audit events, then upon their occurrence we can notify the required users.

Vrivileged A	count Manager								Q ← Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
Periodically E	Activities on Accounts		/ Export							< Back
Note: The current t	me on the server in wh	hich Securden runs is	: 26 Jul 2023 08:24	hrs. The execution t	ime you set here v	vill follow the server tim	ie.			
Export on DD/	MM/YYYY at HH	✓ MM ✓ hrs								
Notify										
Administra										
Super Adr	ninistrators									
Select use	rs/groups									
Others (specify	email address)									
Save										

User activities

All the activities performed by the users in Securden are recorded as audit trails under User activities. The number of users in any organization varies from time-to-time. Some users may leave the organization but the activities they performed before leaving will get captured here and can be utilized if any information is needed.

For instance, If a user is leaving your organization, it is high-time the passwords accessed by him might be exposed. So, to avoid any such circumstances, Securden allows you to view the activities performed by a particular user and change them. To help ease that process, you can have a vareity of filters and search icon.

Navigate to **Audit >> User Activities**.

Privileged Account Man	ager				Q ← Search Accounts
Dashboard Accounts	Folders	Users Groups Audit	Sessions Reports	Admin	
Account Activities Use	r Activities Session	Trails			
All activities performed by the	users in Securden are captured	here as audit trails.			
Q C III Export V	Schedule Export				Showing 1 to 25 of 443 $$25^{\circ}$\!$
Performed By	Performed From	Performed At ‡	Activity Type	Username	Reason
System (Schedule)	localhost	26 Jul 2023 01:01	Schedule task execution ended	N/A	🖻 Database Backup
System (Schedule)	localhost	26 Jul 2023 01:01	Database backup completed	N/A	🗐 Database Backup
System (Schedule)	localhost	26 Jul 2023 01:00	Database backup initiated	N/A	🗐 Database Backup
System (Schedule)	localhost	26 Jul 2023 01:00	Scheduled task execution started	N/A	📵 Database Backup
Securden Administrator	W10PF2YAS0P	25 Jul 2023 12:11	User added	Terry Cruise	
Securden Administrator	W10PF2YAS0P	25 Jul 2023 11:57	Session recording enabled	N/A	
Securden Administrator	W10PF2YAS0P	25 Jul 2023 11:57	Session recording disabled	N/A	
System (Schedule)	localhost	25 Jul 2023 09:07	Schedule task execution ended	N/A	🖶 Database Backup

Click on the **Search** icon. Among the plethora of activities performed by each of the users, the search option helps to filtrate and acquire the relevant trails. To facilitate the search process, six different parameters are available.

Parameter	Description
Performed by	The role of the user who performed the operation.
Performed from	The name of the device where the operation was done.
Performed at	The time at which the operation took place.
Activity type	The type of action performed by the user.

Username	The name of the user who
	triggered the action.
Reason	The reason behind the particular
	activity is noted and displayed.

Session Trails:

All activities performed in a Securden browser session are captured here as audit trails. A session here means the window of activity between login and logout. Every detailed activity from the beginning of the session to the ending is captured.

For instance, If you are an IT admin in your company and you want to know the reason for a particular password issue requested by your employee, you can easily reach out to session activities and view the session from the start to the end and find out the reason.

To get audits from session activities, navigate to **Audit >> User Activities**.

Privileged Account M	lanager							Q → Search Accounts
Dashboard Accou	unts Folders	Users	Groups	Audit	Sessions	Reports	Admin	
Account Activities l	Jser Activities Sessi	on Trails						
All activities performed in a	a Securden browser session are	e captured here as au	dit trails. A session	here means the wi	ndow of activity betwe	en login and logout.		
Session Filter Filter All Sessions		earch Session earch Specific Sessio	'n	~				
Q C III Export	Schedule Export							Showing 1 to 25 of 365 25 🗸
Activity Type	Performed At 😄		Account Title		Account Addres	s	Username	Reason
Securden Administrator	r - W10PF2YAS0P (24 Jul 2	2023 23:00 - Live s	ession) (12 Activ	vities)				
Folder modified	26 Jul 2023 00:05		IT Department (F	-older)	N/A			🗐 Modified : Name
Folder added	26 Jul 2023 00:00		Internal Operatio	ons (Folder)	N/A			
Folder modified	26 Jul 2023 00:00		IT Departement	(Folder)	N/A			🕲 Modified : Name
Account shared with user	25 Jul 2023 12:11		Server3		173.134.23.4			Shared to Terry Cruise. Shared with '
User added	25 Jul 2023 12:11						Terry Cruise	

Filters in Session activities:

You have a couple of filters like **Session filter** and **search session** with which you can dil down the report and acquire the exact data you want. In **Session Filter**, you have

- All sessions
- Live sessions
- Concluded sessions

To filter out and search the exact audit data you require, click on the search icon. To facilitate the search process, six different parameters are available as seen abouve in the account and user activities.

Export and scheduled export:

You can also avail the export and schedule export option like the other audit tabs as explained above.

Event notification:

Securden can send email notifications upon the occurrence of certain events such as password retrieval, deletion, change in share permissions and others. You can choose the events for which you want to receive notifications. The notifications can be triggered real-time or as one consolidated email once a day. This is further explained in the admin section.

For instance, if you need to know all the addition and deletion activities performed by all users and accounts in your organization, you can choose to receive notifications for that particular event. You can also customize the time of receiving notifications like if you want them at the time of occurance or consolidated notification once in a day.

Section 10: Configure Session Recording

You can record the various remote privileged sessions initiated by users from Securden GUI. The recordings can then be played back as a video. Enabling session recording is a two-step process.

First, you need to enable session recording and specify which type of sessions are to be recorded (RDP, SSH, SQL, Telnet, etc.) and the location where the recorded files are to be stored.

In the second step, you need to switch on session recording at the accounts level or at the folder level. The sessions launched only by the accounts for which session recording is switched on will be recorded. Until the two steps are completed, sessions will not be recorded.

Prerequisite: Before proceeding with session recording configuration, you should have optionally configured **remote gateways** for Windows and UNIX devices. You may designate a dedicated, hardened server (Windows or Linux) as the jump box for a select set of devices to route all remote operations originating from Securden through the remote gateway. Securden will route remote connections through the respective jump box and start recording sessions.

Steps to configure session recording

An overview of steps to configure session recording is to first enable the session recording and then specify the type of sessions to be recorded. Secondly, pick the location where they will be stored. To record sessions on remote computers, deploy the advanced recorder for windows.

Step 1: Enable session recording

To enable session recording, navigate to **Admin >> Remote sessions and recordings >> Session recording configuration** to perform this step.

Toggle the session recording slider as depicted in the below screenshot.

Privileged A	count Manager									Q ← Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Admin > Session R	ecording										
Configure S	ession Record	ding									^
specify which se for which session	essions are to be record n recording is switched	ed and the location on will be recorded.	where the recorded Until the two steps	I files are to be store are completed, sess	d. In the second s ions will not be re	tep, you need to switc corded.	h on session recording	g at the accounts	level or at the folder level or at the folder level or at the folder level of the fold	, you need to enable session recording below ar evel. The sessions launched only by the account dedicated, hardened server (Windows or Linux) a	s
the jump box fo		s to route all remote	e operations origin	ating from Securder	through the rem					box and start recording sessions. If you haver	
Enable session	recording	he recorded									
RDP sessions	sessions that are to	berecorded									
SSH sessions											
SQL sessions											
Telnet sessions											
Custom Applica	tion Launcher sessions										

Step 2: Specify the type of Session to be recorded

You can choose to record specific types of sessions alone. You can select any of the required sessions from the list displayed on the interface - RDP, SSH, SQL, and Telnet sessions.

Note: Only the type of sessions selected here will be recorded, provided session recording is enabled for the respective account.

Step 3: Select the location where the recordings should be stored

Privileged Ac	count Manager								Q.	Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Admin > Session Re	cording										
Custom Applicat	on Launcher sessions										
The location wher	e recorded files are to	be stored									
	e stored in this location. curden will not be able to p			ayback the recorded	d sessions. If yo	u manually move the re	ecorded files to				
Note: If you are using Click here for more in	g multiple application serving multiple application serving a serving serving a serving serving serving serving In the serving s	vers, you need to en:	sure that the folder	where recorded files	are stored, is ac	cessible to all the appli	ication servers.				
Recorded file location* C:\Program Files\Se	curden\Privileged_Accou	nt_Manager\session	n_recordin								÷
Purge recorded se	ssions										- 1
Purge Periodica	lly O Never (The r	ecorded files will be	kept forever)								
Purge Interval (in days) ^a 15											
Save											
Save											\forall

You can browse and choose a location on your device, network, or shared drive, on your cloud storage service. Recorded files will be stored in this location. Securden will access this location to playback the recorded sessions.

Note: If you are using multiple application servers, you need to ensure that the folder where recorded files are stored, is accessible to all the application servers.

💎 Privileged Account Manager						(Q ✓ Search Accounts	8~
Dashboard Accounts Folders Users	Groups	Audit	Sessions	Reports	Admin			
Admin > Session Recording all telnet sessions								*
Custom Application Launcher sessions								
The location where recorded files are to be stored								
Recorded files will be stored in this location. Securden will access this loc another location, Securden will not be able to playback the moved sessions		orded sessions. If y	ou manually move the	recorded files to				
Note: If you are using multiple application servers, you need to ensure that Click here for more information.	the folder where recorded	files are stored, is a	accessible to all the ap	blication servers.				
Recorded file location*								
C:\Program Files\Securden\Privileged_Account_Manager\session_recordir 	1							
Purge recorded sessions								- 1
Purge Periodically O Never (The recorded files will be kept fore	ver)							
Purge Interval (in days)*								
15								
Save								v

Note: If you manually move the recorded files to another location, Securden will not be able to playback those moved sessions when you try to.

\leftarrow	🗧 🗸 🛧 🔁 🗸 This PC 🖓	Windows (C:) > Program Files > Securden > Privi	leged_Account_Manager > ses	sion_recordings		~ C	Search session_recordings	Q,
>	Downloads	Name	Date modified	Туре	Size			
>	export_reports	SEC_APP_2023	26-07-2023 08:29	File folder				
>	exports							
	📜 images							
>	📜 licenses							
	📜 logs							
	📜 modules							
>	🚞 pam							
>	📒 pgsql							
>	🚞 postgresql							
>	product_templates							
>	🚞 python							
>	scripts							
>	SecurdenRDP							
>	session_recordings							
	🚞 share							
1 item								

Storing recorded sessions on a shared drive

If you are using multiple application servers, you need to ensure that the folder where recorded files are stored, is accessible to all the application servers. If you choose to store them on a shared drive, ensure that the user accounts used to run **Securden PAM Service** on all application servers have read/write access to the folder. To do this, in **services.msc**, search for **Securden PAM Service** and **Securden PAM Web Service**, go to 'Log On' tab, and enter the account which has read/write permission to the shared folder. Do this for all application servers as needed.

Purge recorded sessions

You can choose to delete recorded sessions periodically. This can be done by enabling the purge option and then choosing a time interval to automatically purge the files recorded in that gap, for example, if 15 days is chosen as the interval, recorded files will be deleted from the system after every 15 days.

To do this step Navigate to **GUI** >> **Admin** >> **Remote sessions and recordings** >> **Session recording** and scroll down.

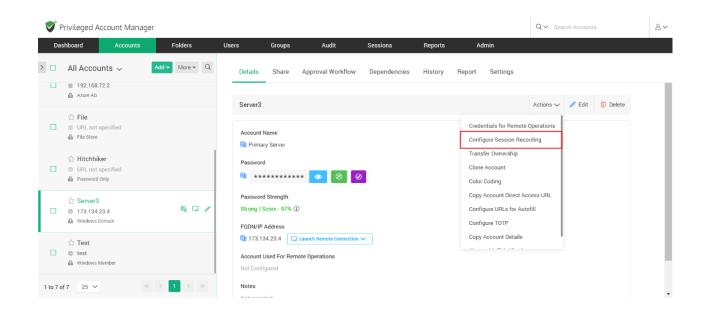
Privileged A	ccount Manager								Q ← Search Accounts	8×
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
Admin > Session F	Recording									
		on. Securden will acces e to playback the moved		o playback the reco	rded sessions. If y	ou manually move the	recorded files to			^
Note: If you are usin Click here for more		servers, you need to en	sure that the fol	der where recorded t	files are stored, is a	ccessible to all the ap	plication servers.			
 Device Storage 	/Network Drive 💿	Cloud Storage								
Cloud Storage Identi Search Cloud Stora			~							
Folder Path*										- 1
Purge recorded s	essions									
Purge Periodi	cally 🔿 Never (T	he recorded files will be	e kept forever)							
Purge Interval (in days 15)*									
Save										

Note: If you select the option to **Never**, the recorded files may be kept forever and occupy storage space over time.

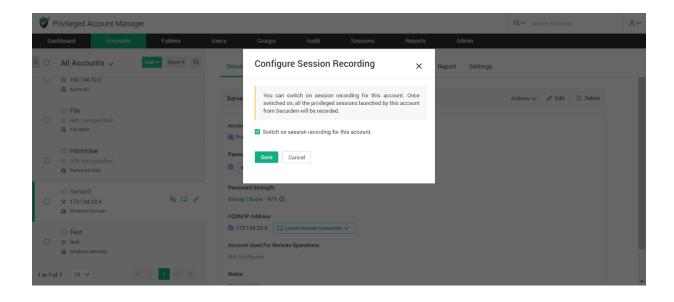
Step 4: Enable session recording at the account level

Specific accounts can be chosen to playback sessions launched from them. The sessions launched only for those accounts will be available for playback later.

Navigate to Accounts >> Choose an account to be recorded >> Actions >> Configure session recording.



You can enable session recording for that specific account using the checkbox and save changes.



Playback recorded sessions

Securden records the privileged sessions launched by the users and stores the recorded files. You can playback the recordings anytime.

Step 1: Ensure that session recording is enabled from **GUI** >> **Admin** >> **Session Recording.**

After enabling, you need to specifically switch on session recording at the accounts level or at the folder level. The sessions launched by the selected accounts alone will be recorded. Until these steps are completed, sessions will not be recorded. In addition to viewing the recorded sessions, you can search for specific keystroke activities of the users.

To playback recorded sessions Navigate to Sessions >> Recorded Sessions.

Privileged A	ccount Manager								Q ✓ Search Accounts	
)ashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
Active Remo	te Sessions R	ecorded Sessions								
need to specifi	ically switch on session		nts level or at the	folder level. The se	essions launched				nin >> Session Recording. After enablin completed, sessions will not be record	
Q 0 III								Search Keystroke Activity	Showing 1 to 50 of 80	50 V
ddress 👙		Login Name		Performed By		Start Time		End Time	Playback	
72.31.13.88		sqluser1		Securden Adm	inistrator	17 May 2020	13:15	17 May 2020 13:16	5	
72.31.13.88		sqluser1		Securden Adm	inistrator	17 May 2020	13:16	17 May 2020 13:1	7 8	
72.31.13.88		sqluser1		Securden Adm	inistrator	17 May 2020	16:01	17 May 2020 16:0	2	
72.31.13.88		sqluser1		Securden Adm	inistrator	18 May 2020	07:42	18 May 2020 07:4	3	
		sqluser1		Securden Adm	inistrator	08 Jul 2020 0	4:12	08 Jul 2020 06:11		
72.31.13.88										
72.31.13.88		SECURDEN-AWS\dem	ouser	Securden Adm	inistrator	24 Jun 2020 (07:04	24 Jun 2020 07:05		

You can search and select the 'Playback' option beside each session on the right, to watch the entire recorded session. There are no prerequisites needed for playback, they occur on a web-based media player.

Search by keystroke activity

In addition to viewing recorded sessions, you can search for specific keystroke activities of the users. A keystroke is the press of a single key on the keyboard. If a user has used the searched Keystroke, he will be listed on the search.

lashboard Acc	counts Folders	Users Groups	Audit Sessions	Reports Admin	
ctive Remote Sess	sions Recorded Session	s 			
need to specifically swit	tch on session recording at the acco		ions launched by the selected accounts a		min >> Session Recording, After enabling, you e completed, sessions will not be recorded. In
Q 0 III				Search Keystroke Activity	Showing 1 to 50 of 80 $50 \sim$
ddress 🕆	Login Name	Performed By	Start Time	End Time	Playback
72.31.13.88	sqluser1	Securden Admini	strator 17 May 2020 13:1	15 17 May 2020 13:1	6
72.31.13.88	sqluser1	Securden Admini	strator 17 May 2020 13:1	16 17 May 2020 13:1	7 🔒
	sqluser1	Securden Admini:	strator 17 May 2020 16:0	01 17 May 2020 16:0	2
72.31.13.88					
72.31.13.88	sqluser1	Securden Admini	strator 18 May 2020 07:4	42 18 May 2020 07:4	3
	sqluser1	Securden Admini: Securden Admini:	,	,	-

Monitor remote sessions

You can monitor and shadow the remote sessions launched by the users using Securden PAM. The list of sessions that are active at the moment is shown. You may view the sessions and if needed, terminate any active session.

Navigate to **Sessions** >> **Active Remote sessions** to monitor remote sessions.

Note: You must refresh the sessions page to see sessions in progress.

💁 Mail - 🛛 🗙 🕴 🛪 Follow 🗙 📔 Dea	ıls 🗙 🐖 Securd 🗙 🚍 Fr	eque 🗙 🐖 Refere: 🗙 🚍 Untitle 🗙	🍼 Securd 🗙 🐖 Audit 🗙 🛛 🕢 [#1	782 × + ~ -	o ×
$\leftarrow \rightarrow \mathbf{C}$ (A Not secure https://	//w1040r68s3:5959/sessions/act	ive-remote-sessions		년 ☆ 🍼 🏞 [I (P) 🗄
	Trial license	expires in 18 days. Contact support@sec	urden.com to extend the trial.		
💎 Privileged Account Mana	ger	Contact Technical Support	Get Quote Q ~	Search Accounts	8~
Dashboard Accounts	Folders Users	Groups Audit Sessi	ons Reports Admin		
Active Remote Sessions	Recorded Sessions				
You can monitor and shadow th and if needed, terminate any act		the users using Securden. The list of sea	ssions that are active at the moment is a	shown below. You may view the sess	sions
Q C III				Showing 0 to 0 of 0 25	\sim
Address	Account Title	Performed By	Start Time 👙	Actions	
		🛍 No data found			
Showing 0 to 0 of 0 $25 \sim$		Search		« < 1	
35°C Sunny	Q Search		ç 🗉 🦸 🖷 🧟 🍪	へ 🥃 ^{ENG} 宗 句》 🗈 ₁₈ .	16:00 -04-2023

You can shadow the live session using the first icon actions if you have the admin rights to do so. You can also choose to terminate that session if required using the red cross under actions.

To do this, click on the **Monitor** icon beside the active session under **Actions.**

Privileged Account Manager					Esemant Technical Report Get Quette				Q~ death Accounts	
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
Active Remo	te Sessions Re	ecorded Sessio	ns							
	or and shadow the ren	note sessions launch	ed by the users u	sing Securden. The I	ist of sessions that are	active at the mor	nent is shown below	You may view the	e sessions and if needed, terminate a	ny active
You can monit session		b Assessed T		sing Securden. The I	ist of sessions that are Performed Dy	eactive at the mor	nerit is shown below		e sessions and if needed, terminate a Showing 1 to 1 of 1 Artises	oy active

Then you will be asked if you want to shadow the session, on clicking **'Shadow the session'**, you will be directed to a live screen where you can monitor the active session.

Advanced Recorder for Windows

Session recorder is a utility software that enables you to record remote sessions on your computer including the ones launched outside securden.

Deploy advanced session recorderIP If you wish to record sessions on remote computers, the session recorder from Securden can be installed manually on your computer to record all sessions.

To do this step Navigate to Admin >> Remote sessions and recordings >> Windows session recorder.

💙 Privileged Account Manager										Q ✓ Search Accounts		
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
	Q S	earch										
	📑 Eve	nt Listener bal Taos		🗐 Prod	uct Language Sele	ection	Remote	Remote Sessions and Recordings				
				API Ac	API Access			Remote Gateway				
	Approval Workflow			API Auth	Authentication Token For API Access			🙄 Assets for Remote Connections				
							Domain	Account-Assets As	ssociation			
	Privilege Elevation & Delegation			Authentication			웹 User - Assets Association					
			•	Email to SMS Gateway			🛱 Sessior	🛱 Session Recording				
			15	-				Windows Remote Launcher				
		Control Policies			Luo Security			Image: Windows Session Recorder Image: Session Recorder </td				
	🕞 Rem			RADI	🛱 RADIUS Server Settings							
	🤜 Sec	urden Agents		💷 Sma	rt Card Authentica	tion						
	😤 Tec	hnician Access Polic	ies				Remote	Distributors			*	

You can choose to download and install either the 32x bit or the 64x bit installer according to your system configurations OR follow the detailed instructions to install through GPO by clicking **follow the procedure detailed here.**

Section 11: Configuring the Remote Gateway

By default, all remote sessions launched from end user machines are tunneled through the Securden server, which acts as the gateway. There will not be any direct connectivity between the end user machines and the target device.

For enhanced security, you may route all remote operations originating from Securden through a single, dedicated gateway (instead of Securden server acting as the gateway). Once configured, Securden will route all operations, including remote connections, session recording, and password resets through the gateway.

When should you consider deploying a remote gateway?

You should consider deploying a remote gateway in the following scenarios:

- If you want to manage the IT assets/accounts that are distributed across multiple networks with interconnectivity.
- If you want to route all remote operations through a common gateway instead of direct connections to target devices from endpoints.
- If you want to record remote sessions

The remote gateway comprises two components:

1) Securden Session Manager (Handles remote connections and session recording)

2) Securden Application Server (Handles remote password reset operations and serves as a remote broker)

How to configure a remote gateway?

Gateway configuration is a four-step process:

- 1. Create a remote gateway in Securden
- 2. Deploy Securden Session Manager and/or Securden Application Server
- 3. Associate devices with the remote gateway
- 4. Associate domains with the remote gateway

Summary: You need to create an entity called the remote gateway in Securden, deploy one or both the Securden Session Manager/Application Server and then associate the gateways with the required devices/domains in Securden. The steps are explained in detail in the sections that follow.

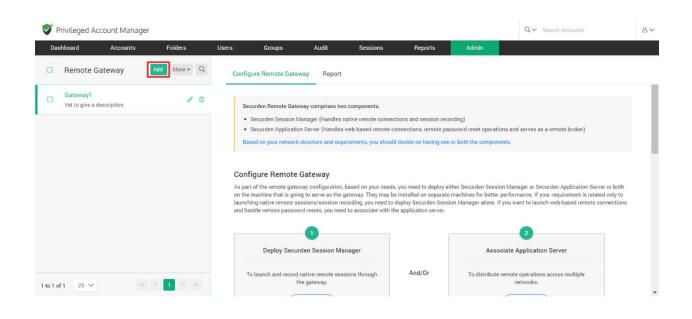
Step 1: Create a remote gateway

Prior to carrying out any configuration, you first need to add the required gateway as an entity giving it a name and description. Securden remote gateway is a virtual entity - something similar to a folder that holds files. So, you will first give it a name and description. In the next step, you will go about carrying out the actual configuration of the gateway.

To add a gateway, navigate to Admin >> Remote Sessions and Recordings >> Remote Gateway

Privileged Acc	ount Manager			Contact Technical Sup	port Get Quote			Q ← Search Accounts	2~
Dashboard	Accounts Folder	rs Users	Groups	Audit Se	ssions F	Reports	Admin		
	Q Search								
	Account Manag	gement	Custom	ization		Security			A
	ዿ Account Types		Custor	n User Roles		🙏 Domain	Administrator Grou	ps	
	Password Policy		🤤 Securd	len Agent Text Customiza	tion	🛞 Change	Encryption Key Loc	ation	
	Device Level Cor	figurations	Se Config	urations		👔 IP Addre	ss Restrictions		
	SSH Templates	For Password Reset	🐼 Logo, 1	Theme and Text		O Block Ac	cess		
	Event Listener		Produc	t Language Selection		Pemote 9	essions and	Pecordings	
	🚯 Global Tags		API Acc	ess	[Remote		necolulligs	
	Approval Work	flow	Auther	ntication Token For API Ac	cess	👛 Assets f	or Remote Connect	tions	
	Password & Priv	ilege Requests	Authent	ication			Account-Assets As sets Association	sociation	÷

In the Remote Gateway page that opens, click on **Add** to create a new remote gateway.



In the GUI that opens, enter the following details:

Privileged Ac	count Manager				Contact Technic	al Support Get Que	ote	Q ← Search Accounts	8~	
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
Add Remote	e Gateway									
	ctual configuration of			at holds files. You will The gateway will hold						
Remote Gateway Name										
Network systems R	3									
Description To connect to remot	e network systems									
Save	el									

Remote Gateway Name: Helps you to uniquely identify the gateway you create.

• **Description:** A brief explanation of the purpose of that specific remote gateway.

On filling in the name and description fields, click '**Save'** to add the remote gateway in Securden.

Step 2: Configure the Remote Gateway

As part of the remote gateway configuration, based on your needs, you need to deploy either **Securden Session Manager** or **Securden Application Server** or **both** on the machine that is going to serve as the gateway. They may be installed on separate machines for better performance.

Based on your network structure and requirements, you should decide on having one or both of the components.

• If your IT assets/accounts are distributed across multiple networks with interconnectivity, you should deploy both the above components on the remote gateway.

• On the other hand, if all your devices are present in the same network and if you want to handle only remote connections and session recording through a common gateway, install Securden Session Manager alone.

• If you want to handle remote connections as well as remote password resets through a common gateway, deploy both.

Deploy Securden Session Manager (SSM)

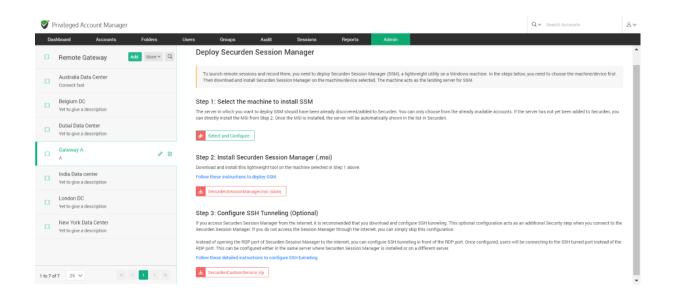
To launch remote sessions and record them, you need to deploy Securden Session Manager (SSM), a lightweight tool on the machine that is identified to serve as the gateway. You need to choose the machine first and then deploy the SSM package.

Prerequisite: The server in which you want to deploy SSM should have already been discovered/added to Securden. In the interface, you can only choose from the already available accounts. If the server has not yet been added to Securden, add/discover and then follow the step below.

To deploy SSM, navigate to **Admin >> Remote Sessions and Recordings** >> **Remote Gateway** and select the required gateway.

\checkmark	Privileged Account Manager							Q ✓ Search Accounts	8
Da	ashboard Accounts Fo	olders Use	ers Groups	Audit Sessions	s Reports	Admin			
	Remote Gateway Add	More + Q	Configure Remote Gate	way Report					
	Australia Data Center Connect fast		Securden Remote Gate	eway comprises two components.					
0	Belgium DC Yet to give a description		Securden Application	Manager (Handles native remote co on Server (Handles web-based rem s structure and requirements, you s	ote connections, remote pa	assword reset opera	tions and serves as a remote broker)		
	Dubai Data Center Yet to give a description		Configure Remote	Gateway					
	Gateway A A	/ 11	As part of the remote gate gateway. They may be inst	way configuration, based on your r alled on separate machines for be	tter performance. If your re	quirement is related		both on the machine that is going to serve as the on recording, you need to deploy Securden Session r.	
	India Data center Yet to give a description			1			2		
	London DC Yet to give a description			rden Session Manager			ociate Application Server		
	New York Data Center Yet to give a description		1	native remote sessions through he gateway.	And/Or		erver has already been configured and associated		
				contriguite			configure / reconfigure		
to 7 (of 7 25 🗸 🦪 🦿 1	> >>		, Domains with Remote	,	ired devices (IT ass	ets) or domains. Once configured, all remote cor	nections originating from the respective devices will g	0

In the RHS, you will see the GUI consisting of the steps to **Deploy Securden Session Manager**.



In the GUI that opens, you need to perform the following actions:

1) Select the machine in which you will be deploying SSM

2) Download the SSM package and deploy it on the machine selected. Select the machine to install SSM

3) (Optional) Configure SSH tunneling

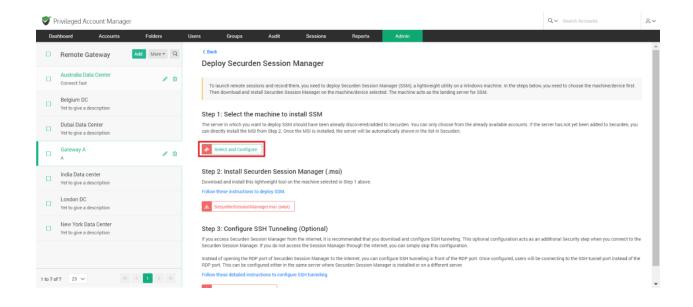
1: Select the machine in which you will be deploying SSM

In this step, you need to select a machine where you would like to install the Securden Session Manager. In addition, you need to specify an account using which connections are to be established with the machine.

Pre-requisite: The machine/server in which you want to deploy SSM should have been already discovered/added to Securden. You will only be able to select from the machines/servers that are listed in the drop-down.

If you are not able to discover or add a server, you can directly install the MSI from Step 2. Once the MSI is installed, the server will be automatically shown in the list in Securden and you can select it here.

To select the machine where SSM should be deployed, click "**Select and Configure**" as shown in the screenshot below.



In the GUI that opens up, you need to select a machine discovered and added to Securden. Once you select the intended machine, you need to enter its IP address or DNS to enable Securden to connect to the device.



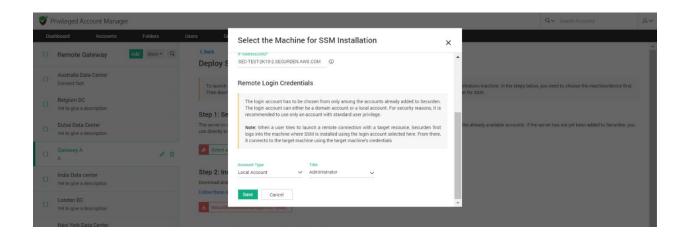
Input remote login credentials - In addition to the IP address, you need to specify an account using which connections are to be established with the machine.

Typically, when a user tries to launch a remote connection with a target resource, Securden first logs into the machine where SSM is installed using

the login account selected here. From there, it connects to the target machine using the target machine's credentials.

The remote login account has to be chosen from only among the accounts already added to Securden. The login account can either be a domain account or a local account.

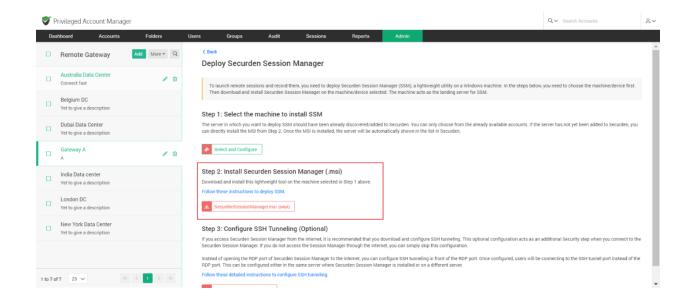
Note: For security reasons, it is recommended to use only an account with standard user privilege.



You need to select the Account Type, the Account title for the required account and click "**Save**".

2: Install the Securden Session Manager (.msi)

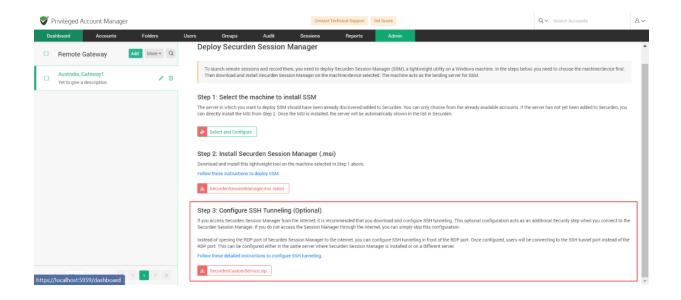
After completing Step 1, you are ready to install the SSM package on the machine identified above. Download the .msi package from the GUI and follow the instructions given in the document link provided in the interface.



3: Configure SSH Tunneling (Optional)

If you do not access the Session Manager through the internet, you can simply skip this configuration.

If you access Securden Session Manager from the internet, it is recommended that you download and configure SSH tunneling. This optional configuration acts as an additional Security step when you connect to the Securden Session Manager.



Instead of opening the RDP port of Securden Session Manager to the internet, you can configure SSH tunneling in front of the RDP port. Once configured, users will be connecting to the SSH tunnel port instead of the RDP port. This can be configured either in the same server where Securden Session Manager is installed or on a different server.

Follow the detailed instructions available on the GUI to configure SSH tunnelling.

Associate an Application Server

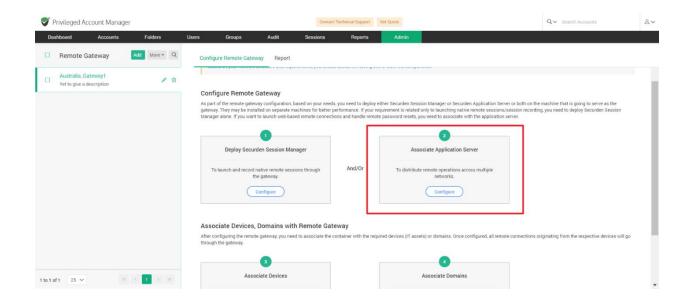
If you have decided to deploy a Securden application server as well (for reasons explained on components selection above), you need to associate each such application server with a remote gateway. Once the association is done, all remote connections originating from the application servers will be routed through the gateway.

Prerequisite: You should have added at least one Application Server before proceeding further. If you haven't added any yet, navigate to **Admin** >> **Remote Distributors** >> **Application Server**.

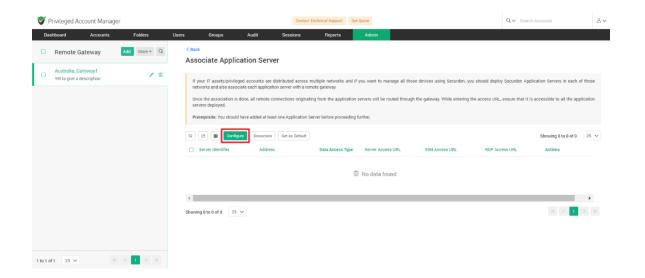
Vivileged Account Manager		Contact Technical Support Get Quote		Q V Search Accounts	8~
Dashboard Accounts Folders I	Users Groups Audit	Sessions Reports Adr	nin		
Q Sea	arch				
Had Secur	den Agents	Smart Card Authentication			
S Techn	ician Access Policies		Remote Distributors		
Autor	natic Approval Policies	Integrations	Application Server		
		Active Directory Domains	Unix Connector		
Notifica	ations	Syslog for SIEM			
Event Event	Notifications	n SAML SSO	High Availability		
Dr Passw	vord Expiration Notification	Ticketing System	Database Backup		
₽∎ Accou	Int Expiration Notification		0-0 High Availability		
🔏 Breac	hed Passwords Identification	General	Passwords Backup (Encrypted HTML File)		
Expire	d Password Rotation	Mail Server Settings			
		Proxy Server Settings	Maintenance & Upgrades		
Emerge	ncy Access	Browser Extension	Reference Product Upgrades		
🔯 Config	gure Emergency Access	Securden Server Connectivity			
		License	Restricted Access Over the Internet		
			Certificate-based Authentication		

To associate an existing application server with the remote gateway, navigate to **Admin >> Remote Sessions and Recordings >> Remote Gateway** and select the required gateway.

In the RHS, you will see the **Configure Remote Gateway** section. Within that you will see the option to **Associate Application Server.** Click the **Configure** button.



In the GUI that opens, you can see all application servers associated with the selected gateway. If there are no application servers added, you need to select **Configure**.



Once you select the required application server, you will need to supply the URLs shown below.

V	Privileged Account Manage	er		Contact Technical Support	Get Quote	Q ✓ Search Accounts	8~
D	ashboard Accounts	Folders	Users Groups A	Audit Sessions Reports	Admin		
	Remote Gateway	Add More * Q	< Back Associate Applicatio	on Server			
	Australia_Gateway1 Yet to give a description	/ 0	networks and also associate e Once the association is done, servers deployed.	ach application server with a remote gateway. all remote connections originating from the applicat		you should deploy Securden Application Servers in each of th of the access URL, ensure that it is accessible to all the applica or you need to add application servers.	
			Select and Associate App Server Primary URL to access Securitien server* https://W10PF2VAS0P5959	~			
			Web-based RDP Connections* https://W10PF2YAS0P5626				
			Web-based SSH Connections* https://W10PF2YAS0P:5622				
1 to 1	of 1 25 🗸 帐		Save Cancel				

The URL through which the Securden server could be connected, and the URLs for web-based RDP and SSH connections. Ensure that all the URLs supplied are correct.

Click **Save**. You will now be able to see that the application server has been associated with the selected gateway and listed.

V	Privileged Account Manag	er		Application server as	ssociated to remote g	ateway		Q ↔ Search Ac	counts	8~
Da	shboard Accounts	Folders	Users Groups A	udit Sessions	Reports	Admin				
	Remote Gateway	Add More + Q	< Back Associate Applicatio	on Server						
	Australia_Gateway1 Yet to give a description	/ 0	networks and also associate e Once the association is done, servers deployed.	ecounts are distributed across n ach application server with a rem all remote connections originati added at least one Application S	note gateway. ng from the application s	ervers will be routed through th				
			Q C III Configure Server Identifier	Dissociate Set as Default	Data Access Type	Server Access URL	SSH Access URL	RDP Access URL	Showing 1 to 1 of 1 Actions	25 🗸
			Primary 🕑	W10PF2YAS0P	Database	https://W10PF2YAS0P5959	https://W10PF2YAS0P.5622	https://W10PF2YAS0P5626	0	Þ
			Showing 1 to 1 of 1 25 🗸						« < 1	
1 to 1	of1 25 🗸 🖉	((1 > »								

You can choose to select a configured application server and dissociate it if needed. Click on the gateway you need to dissociate and click **Dissociate**. You can then click **OK** on the precautionary popup that appears.

-	Privileged Account Manage	21 Folders	Users Group		cted application server(s) wi y. Do you want to proceed?			Q ✓ Search Ac	counts	8~
	Remote Gateway	Add More * Q	<bock Associate</bock 			OK Cancel				
	Australia_Gateway1 Yet to give a description	/ 1	Once the assoc servers deploye	iso associate each application server iation is done, all remote connection d.	ed across multiple networks and if y r with a remote gateway. ns originating from the application se oplication Server before proceeding fu	ervers will be routed through the				
			Q C III		is Default Data Access Type	Server Access URL	SSH Access URL	RDP Access URL	Showing 1 to 1 of 1 Actions	25 🗸
			Primary 🦿	W10PF2YAS0P	Database	https://W10PF2YAS0P5959	https://W10PF2YAS0P5622	https://W10PF2YAS0P.5626	8 🖞	
			Showing 1 to 1 of 1	25 🗸					« < 1	•
1 to 1	of 1 25 V «	< 1 > >>								

Step 3: Associate the required devices

Steps 1 and 2 above mark the creation of the remote gateway, which is like a container.

Once you have created the Container, you need to associate it with the required devices (IT assets) or domains. Once configured, all remote connections originating from the respective devices will go through the gateway associated with them.

Prerequisite: You can only associate the devices and domains that are already added to Securden.

To associate devices and/or domains with the gateway, navigate to **Admin** >> **Remote Sessions and Recordings** >> **Remote Gateway** and select the required gateway.

In the RHS, you will see the **Configure Remote Gateway** section. Within that you will see the option to **Associate Devices.** Click the **Associate** button.

9	Privileged Account Mana	ager			Contact Technical Support	Get Quote		$Q \sim$ Search Accounts	8~
Da	shboard Accounts	Folders	Users Groups	Audit Sessio	ns Reports	Admin			
	Remote Gateway	Add More * Q	Configure Remote Ga	teway Report					
	Australia. Gateway1 Yet to give a description	~ 0	To launch and reco	eurden Session Manager and native remote sessions through the gateway. Configure es, Domains with Remote note gateway, you need to associa	e Gateway	Application Server ha	2 Application Server Is already been configured and associated <i>se / floconfigure</i> Iomains. Once configured, all remote co	nnections originating from the respective devices will g	0
1 to 1 t	of 1 25 V	6 C 3 X	To route all remote	acconnections originating from the through the gateway	And/Or	To route all remote cor the domain t	idee Domains nections from the members of through the gateway Associate		

In the GUI that opens, you can see all devices associated with the selected gateway. If there are no devices added, you need to select the button **Associate Devices.**

💙 Pi	rivileged Account Mana	ger									Q ✓ Search A	ccounts		8
Dasi	hboard Accounts	Folders	Us e rs Groups	Audit	Sessions	Reports	Admin							
	Remote Gateway	Add More + Q	< Back Associate Devi	ces										
	Australia Data Center Connect fast			e the remote gatewa	ay with the required cor	mputers and other	devices. Once as	sociated, the rem	ote connections (a	ind all remote operation	ons) to the computer	s and device	s will be init	iated
	Belgium DC Yet to give a description		through this gateway.	ociate Devices Dis	ssociate Devices							Showing 01	0 0 of 0	25 🗸
	Dubai Data Center Yet to give a description		Device ¢							Device type		Port	Action	
	Gateway A A	/ 1					🗓 No data	found						
	India Data center Yet to give a description													
	London DC Yet to give a description		Showing 0 to 0 of 0 2	5 🗸								~~	< 1 >	
	New York Data Center Yet to give a description													
to 7 of	7 25 🗸	« < <mark>1</mark> > »												

Then do a search for the required devices using the search filters. You can either search for devices based on their IP Address/FQDN or their Account Type.

Dasl	hboard Accounts	Folders	Users Groups	Audit Sessi	ons Reports	Admin				
	Remote Gateway	Add More + Q	< Back Associate Devices							
	Australia Data Center Connect fast	/ 11		te gateway with the requi	red devices. Once you associate	, all remote connecti	ons to the devices associated will be initiat	ted through this jump box.		
	Belgium DC Yet to give a description		Search devices by IP Address/FQDN	~				_		
	Dubai Data Center Yet to give a description		IP Address/FQDN Account Type	(Linux) ×	110.172.187.170 (Windows	vlember) × test (W	/indows Domain) × 1.1.1.1 (Cisco IOS) ×		iear All	
0	Gateway A A	/ 0	Save Cancel							
	India Data center Yet to give a description									
	London DC Yet to give a description									
	New York Data Center Yet to give a description									
	7 25 🗸	« < 1 > »								

You may select as many devices as you want. To clear a selected device, click the 'x' beside the device, to clear all selected devices use the 'Clear all' icon to the right.

On selecting the devices to be associated with the gateway, click **Save**.

Step 4: Associate the required domains

Once you have created the Container, you need to associate it with the required domains. Once configured, all remote connections originating from the respective domains will go through the gateway associated with them.

You have the option to associate specific devices alone and/or an entire domain. When a domain is associated with the gateway, all remote connections originating from the members of the domain will go through the gateway. When adopting a combination approach (associating both devices and domains), in case you have configured a different remote gateway for any of the computers that are part of the domain, the device level configuration will take effect for that computer alone.

Prerequisite: You can only associate the domains that are already added to Securden.

To associate domains with the gateway, navigate to **Admin >> Remote Sessions and Recordings >> Remote Gateway** and select the required gateway.

In the RHS, you will see the **Configure Remote Gateway** section. Within that you will see the option to **Associate Domains.** Click the **"Associate** button.

💙 Privileged Account Manager	Contact Technical Support Get Quote	Q ← Search Accounts	8~
Dashboard Accounts Folders	Jsers Groups Audit Sessions Reports Admin		
Remote Gateway Add More * Q	Configure Remote Gateway Report		
Australia_Geteway1 Vet to give a description	Deploy Securdon Session Manager Associate Application Server To launch and record native remote sessions through the gateway. And/Or Application Server has already been configured and associated Configure Configure / Reconfigure Configure / Reconfigure		
	Associate Devices, Domains with Remote Gateway After configuring the remote gateway, you need to associate the container with the required devices (IT assets) or domains. Once configured, all remote co through the gateway.	nnections originating from the respective devices will g	
	Associate Devices To route all remote connections originating from the devices through the gateway Associate Associate Associate		
1 to 1 of 1 25 🗸 < < 1 > >>		-	•

In the GUI that opens, you can see all domains associated with the selected gateway. If there are no devices added, you need to select the button **Associate Domains.**

V F	Privileged Account Ma	nager				Q 🗸 Search Accounts	8~
Da	shboard Accoun	ts Folders	Users Groups Audit	Sessions Reports	Admin		
	Remote Gateway	Add More + Q	< Back Associate Domains				
	Australia Data Center Connect fast		You have the option to configure this remote			sociate the remote gateway with the required domain. Once associated, t	
	Belgium DC Yet to give a description		part of the domain, the device level configura	ration will take effect for that computer alon		you have configured a different remote gateway for any of the computer	
	Dubai Data Center Yet to give a description		Q C III Associate Domains Dia	ssociate Domains	Primary Machine	Showing 0 to 0 of 0	25 ~
	Gateway A A	/ 0			Do data found		
	India Data center Yet to give a description						
	London DC Yet to give a description		Showing 0 to 0 of 0 25 🗸			« × 1	2 20
	New York Data Center Yet to give a description						
1 to 7 c	of 7 25 🗸	« (1) »					

You may search and select as many domains as you want. To clear a selected domain click the \mathbf{x} beside the device, to clear all selected domains use the **Clear all** icon to the right.

💙 P	rivileged Account Ma	nager							Q ✓ Search Accounts	٤
Das	shboard Accoun	ts Folders	Users (Groups Audi	it Sessions	Reports	Admin			
	Remote Gateway	Add More * Q	< Back Associa	te Domains						
	Australia Data Center Connect fast								ate this remote gateway with the r	
	Belgium DC Yet to give a description				nain, the device level config			imp box. In case, you have co	Clear All	sy for any of the
0	Dubai Data Center Yet to give a description		SECURDE	N.AWS.COM × Select E	Domains					
0	<mark>Gateway A</mark> A	/ 0	Save	Cancel						
	India Data center Yet to give a description									
	London DC Yet to give a description									
	New York Data Center Yet to give a description									
1 to 7 of	f7 25 🗸	« < 1 > »								

On selecting the domains to be associated with the gateway, click **Save**.

These steps complete the configuration for a single remote gateway. You may repeat the steps and configure multiple gateways.

Verify remote gateway configuration and associations

Once you complete all the steps above, you can verify all associations in the form of a report. Securden depicts the list of all devices and domains associated with the remote gateway. You can also view the Securden packages (Application server and/or Securden Session Manager) associated with the gateway.

To view the report, navigate to **Admin** >> **Remote Sessions and Recordings** >> **Remote Gateway** and select the required gateway. In the RHS, you will see the 'Report' section.

💙 Privileg	ged Account Manag	er						Q ← Search Accounts	
Dashboard	Accounts	Folders Add More + Q	Users Groups Configure Remote Gate		Sessions Reports Admin				
Conner	ralia Data Center ect fast		Devices associa	ted with this rem	ote gateway				
Belgiu Yet to g	um DC give a description		Q C III Device Name ÷		Device Туре		Port	Showing 1 to 3 of 3 $$25^{\circ}v	
	i Data Center give a description		10.0.0.1		Windows Workgroup				
Gatew A	way A	/ 0	10.0.0.60		Windows Domain Windows Member				
	Data center give a description		Showing 1 to 3 of 3	25 🗸				«< < 1 > »	
Londo Yet to g	on DC give a description								
	York Data Center give a description		Domains associa	ated with this rem	note gateway				
			Q C III Domain Name ‡			Primary Machine		Showing 1 to 1 of 1 25 🗸	
1 to 7 of 7 2	25 🗸	: < 1 > >>	SECURDEN.AWS.COM						

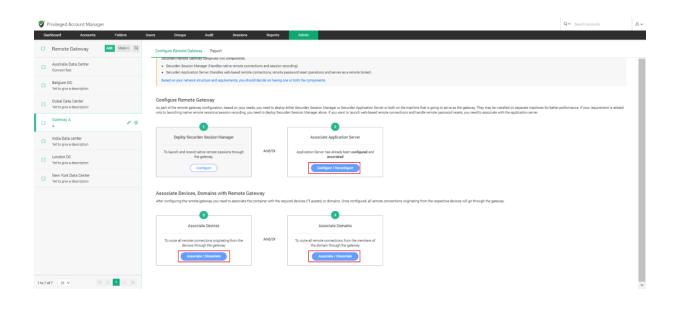
Editing an existing remote gateway

The existing remote gateways, their configurations, device/domain associations can be edited anytime by visiting the same pages in the same way they were configured.

To configure the remote gateway name and description, Navigate to **Admin** >> **Remote Sessions and Recordings** >> **Remote Gateway**, select the required gateway and click the edit icon.

Dashboard Accounts Folders Users Groups Audit Sessions Reports Admin Remote Gateway Add More • Q Configure Remote Gateway Report Report	
Remote Gateway Add More * Q Configure Remote Gateway Report	
Australia.Gateway1 Yet to give a description Securden Remote Gateway comprises two components. Securden Remote Gateway comprises two components. Securden Remote Gateway comprises two components. Securden Remote Gateway comprises two components. Securden Remote Gateway comprises two components. Based on your network structure and requirements, you should decide on having one or both the components. Based on your network structure and requirements, you should decide on having one or both the components.	
Configure Remote Gateway As part of the remote gateway configuration, based on your needs, you need to deploy either Securden Session Manager or Securden Application Server or both on the machine that is going to serve as the gateway. The may be installed on separate machines for batter performance. If your requirement is related only to launching native remote session/session recording, you need to deploy Securden Session Manager alone. If you want to launch web based remote connections and handle remote password resets, you need to associate with the application server.	
Deploy Securden Session Manager Associate Application Server	
To launch and record native remote sessions through the gateway. And/Or Application Server has already been configured and associated	
Configure Configure / Reconfigure	
1 to 1 of 1 25 v C D S S Contains with Remote Gateway After configuring the remote gateway, you need to associate the container with the required devices (IT assets) or domains. Once configured, all remote connections originating from the respective devices will go	•

To configure the associated devices/domains and app servers, re-configure the required attributes the same way they were added.



Add Assets for Remote Connections

Domain accounts are often used to remotely connect to computers and various other IT assets. Any domain account can be configured to remotely connect to multiple IT assets. In such scenarios, creating an association between the domain accounts and the list of IT assets it could connect to, becomes necessary.

Prior to creating such an association, the IT assets are to be added to Securden. You may add all such computers and other IT assets in this section.

While adding the IT asset, you can specify how the device can be connected (RDP/SSH/SQL) and the device's connectivity details. As mentioned above, the assets added here need to be associated with the required domain accounts - that is, with specific users/user groups and accounts/folders in Securden.

To add the assets that are to be remotely accessed, navigate to Admin >> Remote Sessions and Recordings >> Assets for Remote Connections.

💙 Privileged Account Manager		Contact Technical Support Get Quote		Q ← Search Accounts	8~
Dashboard Accounts Folders	u Users Groups Audit	Sessions Reports Adr	nin		
	Q Search				
	Account Management	Customization	Security		^
	名 Account Types	🙀 Custom User Roles	🚑 Domain Administrator Groups		
	Bassword Policy	Securden Agent Text Customization	Change Encryption Key Location		
	G Device Level Configurations	🔁 Configurations	IP Address Restrictions		
	SSH Templates For Password Reset	Logo, Theme and Text	O Block Access		
	Event Listener	Product Language Selection			
	🛞 Global Tags	API Access	Remote Sessions and Recordings		
	Approval Workflow	Authentication Token For API Access	Assets for Remote Connections		
	Password & Privilege Requests		Domain Account-Assets Association		
		Authentication	User - Assets Association		
	Privilege Elevation & Delegation	Two Factor Authentication	🛱 Session Recording		
	E Applications & Commands	💬 Email to SMS Gateway	🐖 Windows Remote Launcher		
	Control Policies	Uuo Security	😫 Windows Session Recorder		÷

In the GUI that opens, click **Add**.

💙 Privileged Account Manager				Contact Tech	inical Support	Get Quote		Q ← Search Accounts	8~
Dashboard Accounts Folder	rs Users	Groups	Audit	Sessions	Reports	Admin			
Admin > Assets for Remote Connections									
Assets for Remote Connections									
You can list down here the computers and other IT	assets to which remote conne	ctions could be launc	hed using domain	accounts.					
Q C Add V Delete Assets								Showing 0 to 0 of 0	100 \
Asset Add Asset Manually		Asset ¢					Connection Type	Actions	
Import Assets from AD									
				🖞 No data fou	nd				
Showing 0 to 0 of 0 100 V								< < 1 >	

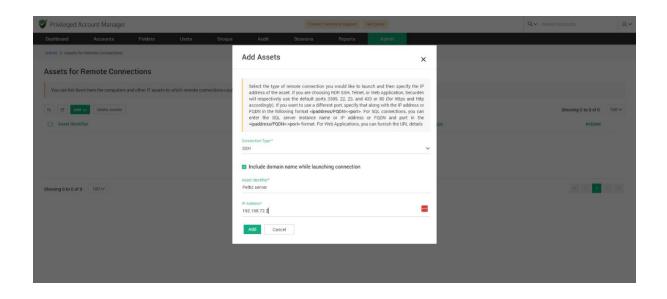
You have the option to either add assets manually by supplying the connectivity details or import them from your directory. Both options are elaborated below.

Add Assets Manually

You can add the required IT assets manually one at a time. Click on **Add Asset Manually.**

Privileged	Account Manager								Q ← Search Accounts	
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
Admin > Assets f	for Remote Connections									
Assets for	Remote Conn	ections								
You can list do	own here the computers :	and other IT assets t	o which remote cor	nections could be l	aunched using dor	nain accounts.				
Q 0 M	d 🗸 🛛 Delete Assets	_							Showing 1 to 22 o	f 22 100 ∨
Asset A	Add Asset Manually					Asset				Conr
Macb	mport Assets from AD					192.168.72.	2			RDP
SEC-2K19-	-1.SECURDEN.AWS.COM					SEC-2K19-1	SECURDEN.AWS.COM			RDP
sec-demo-	-2k19.SECURDEN.AWS.C	MO				sec-demo-2	19.SECURDEN.AWS.C	OM		RDP
EC2AMAZ	OJI5SLP.SECURDEN.AW	/S.COI/				EC2AMAZ-0	JI5SLP.SECURDEN.AW	S.COM		RDP
sec-demo-	-2k16.SECURDEN.AWS.C	MO				sec-demo-2	(16.SECURDEN.AWS.C	OM		RDP
SEC-2K19	-2.SECURDEN.AWS.COM					SEC-2K19-2	SECURDEN.AWS.COM			RDP
SEC-2K12	-2.SECURDEN.COM					SEC-2K12-2	SECURDEN.COM			RDP
Windows I	Laptop					192.168.72.	2			RDP

In the GUI that opens, you need to specify the attributes associated with the asset.



Provide the following attributes associated with the asset:

• **Connection type:** You can specify what type of connection the asset will be connected with from the options available in the drop-down.

If you choose RDP, SSH, or Telnet, Securden will use the default ports 3389, 22, and 23 respectively. If you want to use a different port, specify that along with the IP address in the following format <ipaddress>:<port>. For SQL connections, you can either enter the SQL server instance name or the IP address and port in <ipaddress>:<port> format.

Note: For SSH connections, you have the additional option to include the domain name while launching a connection.

- **Asset Identifier:** Enter a name for the IT asset being added in this field. This helps in uniquely identifying the asset for launching remote connections.
- **IP address:** Finally, specify the IP address of the asset.

Import Assets from AD

The other option is to import the required IT assets from the Active Directory domain. You can import select devices, OUs, or Groups in any manner as needed. To import assets, click "**Import Assets from AD**". The import is a two-step process.

🜍 Privileged Account Manager	Q ← Search Accounts & ∠
Databioard Accounts Falders Lisers Groups Audit Seasions Reports <mark>Admin</mark>	
Admin 3 Assess for Revised Connections 2 Import Assess from A3	
Import Assets From AD	Help 😢
Step 1: Establish Connectivity	Discovering assets from AD is a two step process. In the first step here, you need to supply certain details to enable Securden to scan the members in the domain.
Becurden scans your Active Directory domain and obtains the OUs Groups and computers in the domain. It feiches the computer elayers and adds them here as assets for launching RDP connections.	Domain IP Address
Domain SECURDELLINS COM V	Specify the FGDN or IP address of the domain to be scanned. You have the option to enter any number of secondary IP addresses in comma separated form. This will help Securden establish connection if the primary IP address is not working.
Orani / Adves / FOD* 172.91.11	Connection Mode
Secondary #Addresses (Dytonal) Sicilar Reveals Galaxies Galaxies	Speech year mode (1221_mon0212) through which Security has be establish concertors with the Ad observation 16 BSL mode is to establish concertors with the Ad observation 16 BSL mode is port IOS and the certificate of the domain committee inhald have been signed by a CA. If the estimate all the impact all there is not signed by a CA. If the estimate of the domain committee is not signed by a CA. If the estimate all the interval of the additional the interval of the order of the domain committee is not signed by a CA. If the estimate all committee is not signed by a CA. If t
Connection Mode	Supply Administrator Credentials
0 69.	You need to supply administrator credentials so as to enable Securitien to scan the members in the domain. You may enter the username and password manually once and then use credentials stored in Securiden during the subsequent import
Supply Administrator Credentials	attempts. You may enter the username and password manually once and this will be stored in Securden for use during subsequent import attempts.
The following account already pupplek will be used to correct to the active directory domain. 	
Not Cared	

Step 1: Establish connectivity

Securden scans your Active Directory domain and obtains the OUs, Groups and computers in the domain. It fetches the computer objects and adds them here as assets for launching RDP connections.

To establish connectivity with your domain you need to specify the following:

Domain: Select from an active directory domain added in securden

Domain IP address: Enter the IP address or the FQDN of the domain

Remote gateway (Optional): You can choose to route the connection with the domain using a remote gateway added in Securden. If you wish to add a new remote gateway, navigate to **Admin >> Remote Sessions and Recordings >> Remote Gateway**

Connection Mode: You can specify if you wish to connect securely using an SSL connection by clicking the checkbox.

Administrator Credentials: You need to supply the administrator credentials which will be used to connect to the domain and authenticate.

You can either enter the username and password of the account which will be used to connect to the domain, or alternatively select an account already added to Securden.

On completion, click **Next**

The page that appears will allow you to select the OUs/Groups/Computers from the domain. You can search and select the required assets and add them to Securden.

Once you complete the step 2 above, the imported IT assets will appear in the list on the page Admin >> Remote Sessions and Recordings >> Assets for Remote Connections.

As previously mentioned, the assets added here need to be associated with the required domain accounts. Typically, the asset is associated with specific users/user groups and accounts/folders in Securden.

This can be done from Admin >> Remote Sessions and Recordings >> Domain Account - Assets Association. Once the association is made, the asset will appear in the list of remote session launch options for the specific domain account for the specific users.

Domain Accounts - Asset Associations

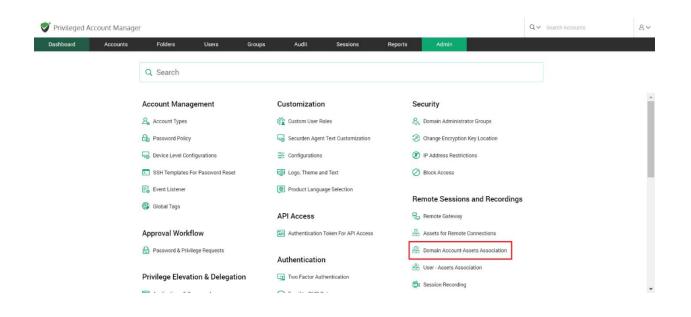
If any domain account is used to remotely connect to multiple IT assets, creating an association between the domain accounts and the list of IT assets it could connect to, becomes necessary.

Typically, an asset is associated with specific users/user groups and accounts/folders in Securden. That means, you will specify 'who' can launch a remote connection to 'what' asset using 'which' domain account.

Once the association is made, the asset will appear in the list of remote session launch options for the specific domain account for the specific users. You can create any number of such associations from this section.

Adding Asset Associations

To add a new asset association configuration, navigate to Admin >> Remote Sessions and Recordings >> Domain Account - Asset Association



In the GUI that opens, all added domain-asset associations will be listed. You can choose to add a new association. Click on **Add**.

Privileged A	ccount Manager									Q ✓ Search Acc	ounts	٤
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Admin > Domain A	ccount-Assets Associatio	n										
Domain Aco	count-Assets	Association										
You can pick sp	ecific assets for associ	ating them with spec	cific users/user gro	ups and accounts/fc	Iders in Securder	. This page shows the	list of such Asset Ass	ociations created	already. You may also	o create new associations a	and edit existing one	15.
Q C Add	Delete									s	howing 1 to 4 of 4	100 ~
Asset Assoc	iation Identifier 0				D	escription					Actions	
Client1											/ 🖬	
Demo											/ 🖬	
Test											1 1	
Tst					1	23					/ 🗊	
Showing 1 to 4 of 4	100 ~										≪ < 1	

In the GUI that opens, you need to fill in certain attributes – like an identification name for the association etc.

Dashboard Acounts Folders Users Oroups Audit Sessions Reports Admin Admin > Domain Account-Kasset Association > Add Asset Association > Asset Associations Identifier* Description Assets Auser Associations Identifier* Domain Pour can pick specific assets for associating them with specific users/user groups and accounts/folders. Bearch assets Associate with Users/User Groups Belect the users and/or groups (all or specific) with whom the assets are to be associated.	V
Asset Associations Identifie*	
Asset Associates Wentlier* Description Description Assets Vou can pick specific assets for associating them with specific users/user groups and accounts/folders. Search assets Associate with Users/User Groups	
You can pick specific assets for associating them with specific users/user groups and accounts/folders. Search assets Associate with Users/User Groups	
Search assets Associate with Users/User Groups	
Associate with Users/User Groups	
Belect the users and/or groups (all or specific) with whom the assets are to be associated.	
All users in Securden O Specific users/groups in Securden	
Associate with Accounts/Folders	
You need to associate the asset collection with all or required accounts/folders.	
All accounts in Securden O Specific accounts/folders in Securden	
Save Cancel	

The fields to be filled are explained below:

Asset Association Identifier - Provide a name for the new mapping being created. The name you enter here helps uniquely identify the asset-account association.

Description - Provide a Description for this association.

Select the Assets - You can pick one or more assets for associating them with specific users/user groups and accounts/folders.

Securden will display all the Assets that were already added in the drop-down list in the field under "Assets". Search the drop-down and add the asset you want to associate with the Users/User groups and Accounts/Folders. You can select any number of assets.

💎 Privilege	d Account Manager									Q~ s	earch Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Admin > Don	ain Account-Assets Associatio	n > Add Asset Assoc	ciations									
Asset Asso Domain	ations Identifier*			Description								^
Assets												- 1
You can p	k specific assets for associ	ating them with spec	cific users/user gr	oups and accounts/f	olders.				Clear All			. 1
Office	esktop × SEC-2K12-1.SEC	CURDEN.AWS.COM	× Search assets									- 1
												- 1
Associa	e with Users/User Gro	oups										
Select the	users and/or groups (all or s	pecific) with whom t	the assets are to b	e associated.								
 All use 	rs in Securden 🛛 Specif	fic users/groups in S	ecurden									- 1
Associa	e with Accounts/Fold	ers										. 1
You need	associate the asset collect	tion with all or requir	ed accounts/folde	trs.								. 1
All acc	ounts in Securden (Sp	ecific accounts/fold	lers in Securden									- 1
												- 1
Save	Cancel											- 1

Associate with User/User Groups

😻 Privileged Account Manager	Q ← Search Accounts	8~
Dashboard Accounts Folders Users Groups Audit Sessions Reports Admin		
Admin > Domain Account-Assets Association > Add Asset Associations		
Assets		^
You can pick specific assets for associating them with specific users/user groups and accounts/folders.		
Office Desktop x SEC2K12-1.SECURDEN.AWS.COM x Search assets		
Unite beixing x Securitizet deriver Ansolution x Search assets		- 1
Associate with Users/User Groups		
Select the users and/or groups (all or specific) with whom the assets are to be associated.		
All users in Securden Specific users/groups in Securden		
8 Administrator (Administrator) × 8 Josh Fraser (Josh) × 5earch user/group		
Associate with Accounts/Folders		
You need to associate the asset collection with all or required accounts/folders.		
All accounts in Securden O Specific accounts/folders in Securden		
Save Cancel		

You can choose to associate the selected assets with all the users and groups in Securden by selecting the option **All users in Securden.** You can also associate the assets with specific users and groups by selecting the option **Specific users/groups in Securden**.

If you select **Specific users/groups in Securden**, all the users and groups present in Securden will be displayed in the drop-down list. Search and add all the users and groups you want to associate with the selected assets.

Associate with Accounts/Folders

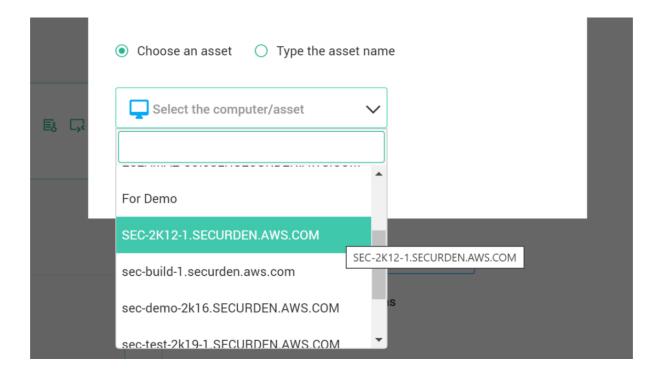
💕 Privileged Account Manager							Q ← Search Accounts	8~
Dashboard Accounts Folders Users	Groups Aud	it Sessions	Reports	Admin				
Admin > Domain Account-Assets Association > Add Asset Associations You can pick specific assets for associating them with specific users/user group	os and accounts/folders.				Clear All			
Office Desktop x SEC-2K12-1.SECURDEN AWS.COM x Search assets								
Associate with Users/User Groups								
Select the users and/or groups (all or specific) with whom the assets are to be a	ssociated.							
All users in Securden Specific users/groups in Securden					Clear All			
Administrator (Administrator) × A Josh Fraser (Josh) × Search use	r/group							
Associate with Accounts/Folders								
You need to associate the asset collection with all or required accounts/folders.								
All accounts in Securden Specific accounts/folders in Securden					Clear All			
Databases × Cisco Routers × Search account/folder								
Save Cancel								v

The final step in the association process is to link the assets and users/groups selected above with the required accounts/folders.

You can choose to associate the selected assets with all the accounts and folders in Securden by selecting the option **All accounts in Securden**. You can also associate the assets with specific accounts and folders by selecting the option **Specific Accounts/Folders in Securden**.

If you select **Specific accounts/folders in Securden**, all the accounts and folders present in Securden will be displayed in the drop-down list. Search and add all the accounts and folders you want to associate with the selected assets. Once you've associated the selected assets with users/accounts, click **Save**.

Once this association is completed, when launching a connection using a domain account, the associated asset will appear in the drop-down as shown below:

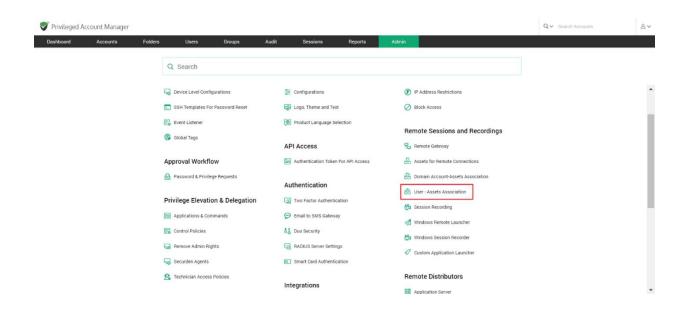


User – Assets/Application Association

You can allow your users to launch remote connections to specific resources using the AD account with which they have logged in to Securden. In addition, if the user has any accounts that are classified as 'Personal Domain Account' account type, the user can use those account names too to launch the connection. In this step, you can associate the IT assets with the users. This association permits them to launch the connection with the assets allotted.

Additionally, you can also associate the applications with the users. This association permits them to launch the connection with the thick client applications allotted.

To associate assets/applications with users, navigate to Admin >> Remote Sessions and Recordings >> User – Assets/Applications Association



In the GUI that opens, click on **Add** to add a new user-asset/app association.

Privileged Account Manager Q											Q ← Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Admin > User - Asse	ts Association											
User - Asset	s Association											
	ur users to launch remot connection. In this step								counts that are classified as 'Personal Don	nain Account' accour	nt type, the user can use those account	names
Q C Add	Delete										Showing 1 to 2 of 2	100 🗸
Asset Associa	ation Identifier 🗢					Descript	tion				Actions	
PDA											1	
Securden Ad	min Remote Connections	3									/ 🗊	
Showing 1 to 2 of 2	100 ~											> >>

In the page that opens, you can associate assets with users the same way assets were associated with domain accounts.

Privileged Account Man	0	Q. ✓ Search Accounts	٤							
shboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
min > User - Assets/Applications	Association > Add Asset/A	opplication Associati	ons							
dd Asset/Applicatio	n Associations	1								
Asset/Application Associations Iden										
Infra User Assets			To associate dev	ices and apps for th	ne infra team					
You can pick specific assets/as	Clear	r All								
Custom Applications										
You can select Custom Applica	ion Launcher profiles and	associate them wit	th specific users/gro	ups.						
Search Apps										

You need to enter the following details on the page:

Asset Association Identifier - Provide a name for the new mapping being created. The name you enter here helps uniquely identify the asset-account association.

Description - Provide a Description for this association.

Select the Assets - You can pick one or more assets for associating them with specific users/user groups and accounts/folders.

Securden will display all the Assets that were already added in the drop-down list in the field under **Assets.** Search the drop-down and add the asset you want to associate with the Users/User groups and Accounts/Folders. You can select any number of assets.

Select the Custom Applications - You can pick one or more custom applications for associating them with specific users/user groups and accounts/folders.

Pre-requisite: You should have added custom app launcher profiles under **Admin >> Remote sessions and recordings >> Custom application launcher.**

Search the drop-down and add the application you want to associate with the Users/User groups and Accounts/Folders. You can select any number of custom applications.

Associate a remote gateway – You can choose to tunnel the connections launched by the remote user through a specific remote gateway, select the same from the drop-down on the page.

Privileged A	count Manager									Q ← Search Accounts	e
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Idmin > User - Ass	ets Association > Add Ass	et Associations									
	cific assets for associati	ng them with speci	fic users/user grou	ips and accounts/fe	olders.						
Search assets											
Associate w	th Users/User Grou	ps									
Select the users	and/or groups (all or spe	cific) with whom th	e assets are to be a	associated.							
 All users in § 	ecurden 🔘 Specific	users/groups in Se	curden								
Associate Re	mote Gateway										
If you prefer the	connections launched by	the remote user to	be tunneled throug	gh a specific remote	e gateway, select ti	he same from the dro	o-down below.				
Search Remote G Dubai Data Cent			~								
Switch on St	ssion Recording for	this Associati									
Switch on Se	ssion necording for	this Association	on								
Save Can											
€//demo-unifie	d-pam.securden.cor	n/dashboard									

You have the option to record all the sessions launched using the associated remote gateway by the selected users. Enable the switch if you wish to do so.

💙 Priv	ileged Ac	count Manager									$Q \sim$ Search Accounts	8~
Dashb	oard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
		ts Association > Add	Asset Associations									
	can pick spe	cific assets for asso	ciating them with spec	ific users/user group	s and accounts/fo	olders.						*
Se	earch assets											
Ass	sociate wi	th Users/User G	roups									- 1
Sele	ect the users	and/or groups (all or	specific) with whom th	he assets are to be as	sociated.							
۲	All users in S	ecurden 🔘 Spec	ific users/groups in Se	ecurden								
Ass	sociate Re	mote Gateway										
If yo	ou prefer the	connections launche	d by the remote user to	be tunneled through	a specific remote	e gateway, select ti	he same from the drop	-down below.				
	<mark>rch Remote Gr</mark> ai Data Centr			~								- 1
Sw	itch on Se	ssion Recording	for this Associat	ion 🔵								- 1
Save	Canc	el										•

On filling all the fields, click **Save**.

Custom Application Launcher

Securden facilitates launching connections with remote IT assets and applications. In addition to the default modes of launching web-based connections and through native clients, you can define custom application launchers to supply/autofill credentials and automatically launch any application, including thick application clients.

Creating a custom launcher basically involves creating a profile for each such application capturing the input fields as found in the target application. The profile will have placeholders to replace the required values from Securden repository at the time of launching the connections.

To create/configure the application launcher profile, navigate to Admin >> Remote Sessions and Recordings >> Custom Application Launcher.

In the page that opens, you can create new app launcher profiles or configure existing launcher profiles.

Create an app launcher profile

To create a new application launcher profile, click on **Add App Launcher Profile**.

Privileged Account Manager							Q~	Search Accounts	
ashboard Accounts Folders	Users Gro	oups Audit	Sessions	Reports	Admin				
dmin > Custom Application Launcher									
ustom Application Launcher									
Securden facilitates launching connections with rema application, including thick application clients. Basical the connections.									
C III Add App Launcher Profile Delete								Showing 1 to 1 of 1	25
C III Add App Launcher Profile Delete			Description				Status	Showing 1 to 1 of 1	25
Launcher profile				auudaa					1
] Launcher profile			Description Launch zoom from Se	ecurden			Status ✓ Active	Showing 1 to 1 of 1	2
				ecurden					25

Securden requires various details related to the application for which the profile is being created.

Typically, you need to know the exact name of the data input form (as appearing on the Window), the order of the input data fields, and the type of those fields. Once you have these details in hand, you may proceed to create the profile.

Privileged A	Account Manager								Q	 Search Accounts 	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admii	n		
Admin > Custom	Application Launcher >	Add Application									
Add Applic	ation Launch	er Profile						Help 🥐			Â
where it is loca	eate a profile for each ated, and the exact ord s to fetch data (like acc	er in which the appl	lication expects ir	nput/credentials to	launch connect	ions. You may make u		which the pr the exact na Window), the those fields	ofile is ame of e order Once	various details related to the application being created. Typically, you need to k the data input form (as appearing on of the input data fields, and the typ you have these details handy, you	now the e of
Application Profile I DBVisualizer	lame*		Descript	ion ch DBViz from Sec	urdon			proceed crea	5		
DBVISGAIIZEI			10 1801		arden					tify the application profile.	
Authenticatio	on Type 🗊							Application	Laun	ch Type	
	sing Account Credenti	als 🔿 Authen	nticate using User	Credentials				profile. You i custom appl	may cre ication	tion for which you are creating this laun eate this profile for native applications, s as required. If neither option is selec tion will simply launch the application fi	and cted,
Application L		pen App 🛛 Autof	fill on next windov	v 🔵 Google Chro	ome 🔘 Micros	soft Edge		Native App - are built usi	You ca ng lang asic. Th	n use this option to launch applications juages specific to Windows. These inc ese apps are designed to specifically ru	that lude

In the GUI that opens, the following fields need to be filled:

Application Profile Name: The name that you enter here helps you uniquely identify the application profile being created. This name will appear on the remote connection launching section in Securden. Your users will identify the launch option through this name.

Description (Optional): A brief of the app launcher for a quick overview, this could explain the purpose of this launcher profile.

Authentication Type

• Authenticate using Account Credentials

If you select this option, you need to specify the account types for which this custom application launcher profile is applicable. Once the profile is created, it will be automatically added to the list of available connections for all accounts of the selected type and the account credentials will be used for authentication

• Authenticate using User Credentials

Once the application launcher profile is created, it should be associated with the required users. Credentials of the associated user will be used for authentication. To associate the profile, navigate to **Admin >> Remote Sessions and Recordings >> User - Assets/Applications Association** Once you have filled these fields, you need to select an **Application Launch Type**

Privileged Account Manager							Q 🗸 Search Accounts	8~
Dashboard Accounts Folders Users	Groups Audit	Sessions	Reports	Admin				
Admin > Custom Application Launcher > Add Application								
Add Application Launcher Profile						Help 🧧		Â
You need to create a profile for each application to be launched from input/credentials to launch connections. You may make use of placehol					in which the application expects	which the pro the exact nar	uires various details related to the application file is being created. Typically, you need to kn ne of the data input form (as appearing on 1 order of the input data fields, and the type	now the
Application Profile Name* App Profile A	Description					proceed creat		lay
Application Launch Type						attributes in the Additional fiel	 the following placeholders for replacing the he respective field name in application login pa ds associated with an account type can also be	
Native App O Custom App O Open App Autofill on next wind	ow 🔾 Google Chrome 🔾 Microso	oft Edge				(%ACC0)	UNT_NAME%} - Account name UNT_PASSWORD%} - Password	
Application Identifier / Application file path*	Arguments					📵 (%ACCO	UNT_ADDRESS%) - Address UNT_TOTP%) - TOTP (if configured). ER_NAME%) - Folder name	
Input Form Name*	Total Time Delay for Filling Data (in m	iilli seconds)*				(%DOM/) (%NETB)	H_INAME%) - Domain name IOS_NAME%) - Netbios NGUISHED_NAME%) - Distinguished name	
							Profile Name	
Take connections through Remote Gateway							y identify the application profile.	
Account Type *						Application		
Search Account Type						Helps uniqu connections in	ely identify the application for launch n the GUI.	ning 🗸

This is the type of application for which you are creating this launcher profile. You may create this profile for native applications, custom applications or explore other options as required.

 Native Applications: Generally, Windows applications possessing one or more drop-downs, text-boxes, password fields and action buttons are called native applications in Securden. Securden can easily identify the fields of native windows apps. If you are familiar with the exact values the fields in your application would hold, you may select the option Native Apps. SQL server studio is a typical example of a native app.

- Custom Applications: Applications that have a more complex field pattern can be classified as custom applications. Zoom, Skype, any other app/web-app are examples of custom applications.
- Open Application: If you wish to simply launch/open an application without needing to input credentials and other fields in it, you may select the option Open App.
- Autofill on next window: If you want to autofill credentials on active applications, you can select the checkbox Autofill in the next active application. Although, while launching a connection using this method, applications will not be launched. Instead, Securden will autofill credentials in the next active application window (the window that opens when you press Alt+Tab). You need to ensure that the appropriate window is manually launched beforehand and is the next active window.

Important Note: The autofill option simply changes the input focus to the next active application regardless of its type and autofill the credentials. For example, if the next active application happens to be a notepad, it will autofill the credentials there too. So, exercise care in selecting this option. If you are granting access with 'Open Connection' permission to an account, enabling this option may result in auto-filling credentials (in plain text) on any application and might potentially reveal the credentials.

 Google Chrome/Microsoft Edge: If you wish to launch a chrome or edge browser you can select this option. Securden auto-fills the fields known for the Chrome/Edge profile so you can fill the rest with ease.

Application Identifier/Application file path: This is an important configuration parameter. You need to specify the name of the custom application you want to launch (for example, test.exe. The application should be in the system path) OR the exact file path of the application (for example, C:\example\testapp.exe). This application should be available on all the client machines from which users would try to launch the application from Securden.

Arguments (Optional): If the application requires any arguments to be passed for launch, you may enter the same here. For example, some applications might require IP addresses to launch the application. In such cases, you may pass the required value as an argument as shown below:

/h {%ACCOUNT_ADDRESS%}

Input form name: Exact name of the data input form of the application (as appearing on the Window)

Time Delay for Filling Data: While launching connections, the application might take time to launch. To handle such scenarios, you can configure time delay in milliseconds for Securden to start filling the data.

Account Type: This represents the **Account Type** in Securden. The custom profile being created, will be applicable only for the selected account type.

Creating a native app launcher profile

Native app launcher profiles will require you to fill in the order of input data fields and enter the field value. Each input action has to be defined according to the order in which they will be filled.

ashboa	ard Account	s	Folders	Users	Groups Audit	Sessions	Reports	Admin				
min >	Custom Application Laun	cher > Add A	oplication									
ount Ty	pe *						Clear All			Helps unique connections i	ely identify the application n the GUI.	for launching
eb Aco	count × Search Accour	nt Type								Arguments		
plica	ation Launch Type	9								If the applic	ation requires any arguments to hay enter the same here.	be passed fo
• • •	ative App 🛛 Custom									Input Form	Name	
• NG	stive App 🕓 Custon	Арр									of the data input form of the	application (a
										appearing on	the Window).	
Inpu	t Data Order										the Window). for Filling Data	
Inpu	t Data Order Field Type Drop Down	~	Field Name Select Server		Element Selection	Time Dela 2000	r (in milliseconds)	-		Time Delay While launchi launch. To ha		igure time dela
8	Field Type Drop Down	×	Select Server		1	2000		_		Time Delay While launchi launch. To ha	for Filling Data ng connections, the application mi ndle such scenarios, you can conf is for Securden to start filling the d	igure time delay
·	Field Type	~			Element Belection 1 Field Value (%ACCOUNT_INAME%)	2000	γ (n milliseconds) γ (n milliseconds)	_		Time Delay While launchi launch. To ha in millisecono Account Typ	for Filling Data ng connections, the application mi ndle such scenarios, you can conf is for Securden to start filling the d	igure time dela ata.
	Field Type Drop Down Field Type Text Box		Select Server Field Name Server Name		1 Field Value (%ACCOUNT_NAME%)	2000 Time Dela 3000	r (in milliseconds)	_		Time Delay While launchi launch. To ha in millisecono Account Typ The classifice	for Filling Data ng connections, the application mi ndle such scenarios, you can confi Is for Securden to start filling the d pe	igure time dela ata.
	Field Type Drop Down Field Type Text Box Field Type Password		Select Server		1 Field Value	2000 Time Dela 3000 Time Dela		-		Time Delay While Jaunch. To hi Jaunch. To hi in milliseconc Account Tyy The classifice Application The type of a profile. You n custom appli	for Filling Data ing connections, the application min diffe such scenarios, you can confi to for Securden to start filling the d be tition to which the account belongs	gure time delay ata. is in Securden. ng this launche pplications, and ion is selected
	Field Type Drop Down Field Type Text Box Field Type	~	Select Server Field Name Server Name Field Name		1 Field Value (%ACCOUNT_NAME%) Field Value	2000 Time Dela 3000 Time Dela	r (in milliseconds)	-		Time Delay While launch. To ha in millisecono Account Tyy The classifier Application The type of a profile. You n custom appli launching a c	for Filling Data ng connections, the application mi ndle such scenarios, you can confi is for Securden to start filling the di se Launch Type Diplication for which you are creating nay create this profile for native and cations as neguried. If neither optimes the second se	gure time dela ata. is in Securden of this launche pplications, and ion is selected pplication file.

The steps to follow while entering each input action is as follows:

- Firstly, select the field type this can either be a text field, a button, a password or a drop-down.
- Then, enter the name of the field that appears on the application.
- Specify Field Value and Select Element

If the field type in your application form is of the type **Drop Down** you will have to take care of **Element Selection**.

Element Selection for drop-down allows you to select the entries from the drop-down. If you enter the element value as '0', the first entry in the drop down will be selected. 1 will choose the second entry and so on.

If the field type in your application form is of the type **Text-box** you will have to take care of **Specify Value**.

In the case of text fields, you can specify the value to be filled in for the specific input field. It could be the account name, password, or any other value. When specifying the value, you have the option to use placeholders as explained below.

The values for the placeholders will be taken by Securden at runtime:

You may use placeholders for replacing the attributes in the respective field name in application login page.

{%ACCOUNT_NAME%} - to be replaced with the respective "Account name" at runtime

{%ACCOUNT_PASSWORD%} - to be replaced with the account's password at runtime

{%ACCOUNT_ADDRESS%} - to be replaced with the respective account's "IP Address" at runtime

{%ACCOUNT_TOTP%} - to be replaced with the respective account TOTP token at runtime (if configured)

{%DOMAIN_NAME%} - to be replaced with the domain name of the mentioned account

{%NETBIOS_NAME%} - to be replaced with the NetBIOS name of the account mentioned.

• Specify **Time delay**

Wherever you want Securden to wait for a few milliseconds before filling the respective data while launching the application, you may add **Time Delay** in milliseconds.

Once you have defined the Input Data Order, click **Save** to add the native app launcher profile in Securden. The native application can now be directly launched from Securden.

Creating a custom app launcher profile

Custom app launcher profiles require you to fill in the order of input data fields and enter the field value, similar to the native app launcher. Each input action has to be placed according to the order in which they will be filled in the application.

The steps to follow while entering the input data order is as follows:

- Firstly, select the **Action to Perform** This lets you perform actions like clicking TAB, ENTER, SPACE etc. on the application.
- Then select the **Fill Detail** operation and specify the value that will be filled in after the selected action is performed.
- Repeat the input actions in the order that they will be carried out.

Action to Perform Action to Perform Constraint Action to Perform Constraint Constrain		
Image: Additional part of Policinal Security of Policinal		
But name of the data input form appearing on the Window). East name of the data input form appearing on the Window). Image: put Data Order Time Delay for Filing Data Image: put data on the Perform Action to Perform Action to Perform Image: put data Ent Filing Image: put data Image: put data Image: put data Ent Filing Image: put data Image: put data Image: put data Image: put d		Input Form Name
Operations Action to Perform Table Table<td>of the application (a</td><td>Exact name of the data input form of the application appearing on the Window).</td>	of the application (a	Exact name of the data input form of the application appearing on the Window).
Operation Action to Perform Action to Perform Time Delegion nilliscondi) - Operation Full Detail Full Detail Time Delegion nilliscondi) - Operation Full Detail ENTER TAB Time Delegion nilliscondi) - Operation Action to Perform ENTER Table Time Delegion nilliscondi) - Operation Action to Perform ENTER Table Time Delegion nilliscondi) - Operation Action to Perform ENTER Table Time Delegion nilliscondi) - Operation Action to Perform ENTER SPACE Time Delegion nilliscondi) -		Time Delay for Filling Data
Operation Time Despin milliscond) — Time Despin milliscond) — The despin milliscond) Image: Problem in the second intermediation intermediation in the second intermediation intermediatintermediation int	an configure time dela	While launching connections, the application might take til launch. To handle such scenarios, you can configure time in milliseconds for Securden to start filling the data.
Fill Detail TAB The classification to which the account if the description of the account if a		Account Type
Operation END Time Delay(in militacondi) — The byte of application control (inclusion) — Action to Perform SPACE CLEAR Time Delay(in militacondi) — Take connections through Remote Using in militacondi) Action to Perform SPACE Take connections through Remote Using in militacondi) — Take connections through Remote Using in militacondi)	elongs is in Securder	The classification to which the account belongs is in Secu
Action to Perform V END SPACE CLEAR Time Deligit militacondi) — CLEAR Time Deligit militacondi CLEAR Time Deligit m		Application Launch Type
CLEAR Time Delay(in miliacond) - Learner to perform space on the connection will simply laure to meeting a connect		The type of application for which you are creating this law profile. You may create this profile for native applications
Action to Perform V SPACE V Take connections through Remote		custom applications as required. If neither option is sele launching a connection will simply launch the application f
	Gateway	Take connections through Remote Gateway
		You can Launch custom applications that are adde
Fill Detail V Password		
Add Fields be associated with the remote gateway.		The account from which the connection is being launched be associated with the remote gateway. The Application Launcher has to be associated with the

You have to carry out these steps for each input action added to the launcher. Once you have defined the Input Data Order, click **Save** to add the custom app launcher profile in Securden. The custom application can now be directly launched from Securden.

Launching Remote Connections Using the Custom Launcher

Once you create the app launcher profile, the custom app launcher will be available in the remote access drop-down for accounts with the specified account type.

V	Privileged Account Manage	r		Q ✓ Search Accounts	8~
Da	ashboard Accounts	Folders	Users Groups Audit Sessions Reports Admin		
> 🗆	All Accounts \backsim	Add • More • Q	Details Share Approval Workflow History Report Settings		
	 ☆ IT Administrator ※ 192.168.72.2 ₩indows Member 		Marketing Website Actions 🗸 🥒 Edit 👔 Delete		
	☆ Joe Wallace 응 180.151.61.70 ඕ Windows Workgroup		Acount Name B Capt Password		
0	☆ Marketing Website ✓ https://www.capterra.com/ da Web Account	R 12 /	*********** Ø Ø Passwed Strength Streng Score - 8% ()		
	☆ Root © 172.31.83.199 ≞ Linux		URL Bittos://www.captersa.com/		
	☆ SSH Key ⊗ URL not specified ∰ SSH Key	B 🗹 🖊	Notes Launch Web Application Not Provided Launch Zoom		
	☆ Text document ♥ https://www.securden.com ♣ File Store		Show More Details 🗸		
1 to 6	of 6 25 🗸	< 1 > >			

You can click that and directly launch the connection.

Take connections through Remote Gateway

You can launch custom applications that are added in Securden through a remote gateway. As a pre-requisite, the account from which the connection is being launched must be associated with a remote gateway.

Click the checkbox **Take connections through the remote gateway**.

Thinkeyeu	Account Manager					Comuci	Technical Support		 	Q ← Search Accounts	3
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
dmin > Custom	Application Launcher > Ad	d Application									
plication Profile will app launche			De	scription						ds. Once you have these details handy, reating the profile.	you may
in opp address									Place Ho	lders	
pplication La									attributes Additiona given a pl		gin page.
Native App	🔾 Custom App 🛛 Oper	App O Autofill or	n next window	Google Chrome	 Microsoft Ed 	ge			E (%A	CCOUNT_NAME%) - Account name CCOUNT_PASSWORD%) - Password CCOUNT_ADDRESS%) - Address	
	er / Application file path*		Url	+						CCOUNT_TOTP%} - TOTP (if configured).	
Program Files	Google\Chrome\Applicati	on\chrome.exe							📑 {%F	DLDER_NAME%) - Folder name	
										OMAIN_NAME%) - Domain name	
ut Form Name*	01		Tot	tal Time Delay for Fill	ng Data (in milli sec	conds)*				ETBIOS_NAME%) - Netbios	
utieu - Google I	Chrome (Incognito)									ISTINGUISHED_NAME%) - Distinguished nam	e
										ion Profile Name	
Take connect	ions through Remote Gate	way							Helps uni	quely identify the application profile.	
ount Type *									Applicat	ion Identifier	
earch Account 1	Туре									niquely identify the application for I ns in the GUI.	aunching
	10.00								Argumer	nts	
put Data O	rder									plication requires any arguments to be pa in may enter the same here.	issed for
Operation		Action to Perform		Operation T	ime Delay(in milliseci	onds)					
Action to P	erform 🗸 🗸	TAB		~					Input Fo	rm Name	
									Exact na	me of the data input form of the applic	ation (

Once all configurations are made, you can launch the custom application through the remote gateway. You can create a Remote Gateway from **Admin**

>> Remote Sessions and Recordings >> Remote Gateway

Configure an existing app launcher profile

You have the option to clone, edit, or delete a previously created app launcher profile. This can be done using the action buttons highlighted below.

516 Securden Unified PAM

Vivileged A	ccount Manager									Q ← Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Admin > Custom A	pplication Launcher										
Custom Ap	plication Launc	cher									
	luding thick application cl									upply credentials and automatically om Securden repository at the time	
Q C III	Add App Launcher Profile	Delete								Showing 1 to 2 of	of 2 25 🗸
Launcher pr	ofile				D	escription			Status		
Zoom									🗸 Active	© / O	
Skype									 Active 	6 / 1	
Showing 1 to 2 of 2	25 🗸									× ×	1 > >>

Section 12: Privilege Elevation and Delegation (PEDM)

Privilege Elevation and Delegation helps in eliminating administrator rights on servers and endpoints. Instead of granting shared administrative access to servers, you can establish policy-based controls to allow standard users to access required servers.

Securden takes care of elevating the applications for standard users. Similarly, you can eliminate local administrator rights on endpoints and elevate applications for standard users. In Linux devices, you can allow users to run specific commands with SUDO privileges in Linux.

PEDM - Summary of Steps

- 1. Deploy the Securden agent on the servers, endpoints
- 2. Discover/add applications, processes, and commands
- 3. Create application control policies
- 4. Remove admin rights across endpoints

Step 1: Deploy Securden Agent on Computers

To elevate and delegate privileges, you need to deploy Securden agents on servers and endpoints. The agent takes care of elevating the pre-approved applications and processes for standard users. The agent also allows users to request temporary access to applications/ temporary full admin access. Securden agent can be deployed in two ways:

You can deploy Securden agents on endpoints and servers either manually or in bulk using Group Policy Objects.

Agent for Windows Machines

Navigate to Admin >> Privilege Elevation and Delegation >> Securden Agents >> Install Windows Agent to download the agents for 32-bit, 64-bit MSI and install them manually in the remote machine.

Agent Installation Using GPO

1. Connect to the domain group policy editor (gpmc.msc from Domain Controller)

- 2. Select all the OUs/Groups that contain the computers (endpoints and servers) in which agents must be installed.
- 3. Create a GPO for the selected OUs/Groups
- 4. 4. Add InstallAgent.vbs as a startup script in the GPO with the following parameters:

MSIPATH = Location of the MSI file (accessible to all the endpoints and servers)

SERVER = Name of the host (FQDN / DNS) where Securden server is running

PORT = Securden server port

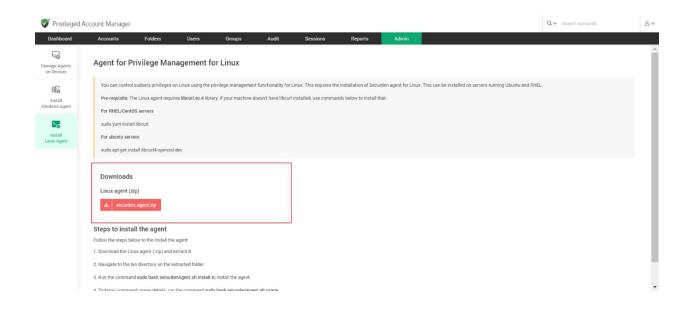
Example

/MSIPATH:"\\SECURDEN-SERVER\Executable\SecurdenAgent.msi" /SERVER:"SECURDEN-SERVER" /PORT:"5151"

5. Securden Agent will be deployed on the computers (endpoints and servers) during the next restart.

Agent for Linux Machines

To install agents for Linux machines, click **Install LinuxAgent** and download the zip file.



Prerequisite: The Linux agent requires **libcurl.so.4** library. If your machine doesn't have libcurl installed, you may make use of the commands below to install that:

For RHEL/CentOS servers

sudo yum install libcurl

For ubuntu servers

sudo apt-get install libcurl4-openssl-dev

Steps to install the agent:

- 1. Download the Linux agent (.zip) and extract it.
- 2. Navigate to the bin directory on the extracted folder.
- 3. Run the command sudo bash securdenAgent.sh install to install the agent.

4. To know command usage details, run the command sudo bash securdenAgent.sh usage.

Upgrading the Securden Agent

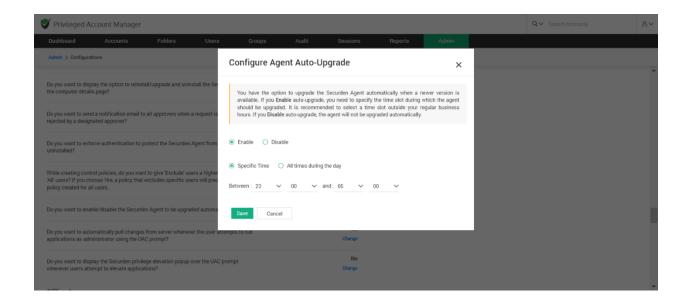
Once a new version of Securden Agent is available, Securden takes care of automatically upgrading the existing agent to the latest one.

As a pre-requisite, you need to have the agent version <xyz> or higher installed and have an active connection with the internet.

You have the provision enable/disable, auto-upgrades of the Securden agent. Navigate to Admin >> Configurations and select **Provision to auto-upgrade the Securden agent**

💙 Privileged Account Manager					Q ← Search Accounts	8~
Dashboard Accounts Folders Users G	roups Audit	Sessions	Reports	Admin		
Admin > Configurations						
Do you want to display the option to reinstall/upgrade and uninstall the Securden agent or the computer details page?	n	Yes Change				Â
Do you want to send a notification email to all approvers when a request is approved or rejected by a designated approver?		No Change				
Do you want to enforce authentication to protect the Securden Agent from being uninstalled?		No Change				
While creating control policies, do you want to give "Exclude' users a higher preference tha 'All' users' If you choose Yes, a policy that excludes specific users will precede a different policy created for all users.		No Change				
Do you want to enable/disable the Securden Agent to be upgraded automatically?		Enabled Change				- 1
Do you want to automatically pull changes from server whenever the user attempts to run applications as administrator using the UAC prompt?		Yes Change				
Do you want to display the Securden privilege elevation popup over the UAC prompt whenever users attempt to elevate applications?		No Change				
						*

In the GUI that opens, you can enable the auto-upgrade feature and select a time slot outside business hours to perform the upgrade.



Once the endpoint connects to the server, it will automatically upgrade the agent and all privilege controls and policies are retained on the machine.

Step 2: Discover / Add Applications, Processes, Commands

The essential aspect of privilege elevation and delegation is elevating the privileges for applications (in Windows) and allowing users to run specific commands with SUDO privileges in Linux.

To ensure that least privilege enforcement does not impact productivity, Securden provides the application control feature. You can 'whitelist' the trusted applications that can be installed/run with elevated privileges by standard users. The term 'application' refers to any Windows process/executable. When you install the Securden agent on Windows endpoints and servers, the applications that normally require admin privileges are automatically discovered and added here. You can also add applications manually.

In the case of Linux, you need to add the commands that are allowed or not allowed to be run with SUDO privileges. You can review the list and add any other application or command that needs to be controlled.

There are two ways in which you can add applications (in Windows) to Securden:

1. Discovering and automatically adding applications

2. Manually adding applications

Automatic Discovery of Applications

When you install Securden agents on endpoints and servers, the agents automatically start discovering the applications running at that time on the computers and add them to the applications inventory.

However, the discovery process is not an instant one; applications are discovered over a period of time. Typically, it takes about a couple of weeks to complete the process. This is because the agent discovers and adds only the applications that require elevated privileges and not all processes/applications unnecessarily.

You can view the discovered applications in the Admin >> Privilege Elevation and Delegation >> Applications and Commands section.

Privileged Account Manag	er						Q ← Search Accounts	2
Dashboard Accounts	Folders Users	Groups Audit	Sessions	Reports	Admin			
	Q Search							
	B Password & Privilege Requests	Authentica	ation or Authentication			- Assets Association		
	Privilege Elevation & Delegation	Email to S			User - Assets/App Session Recordin	plications Association		
	Control Policies	RADIUS S			Windows Remote Windows Session			
	Securden Agents	Smart Car Integration	d Authentication	\$	Custom Applicati	on Launcher		
	 2 Technician Access Policies ② Automatic Approval Policies 		ectory Domains		note Distribu			
	Notifications	🐟 SAML SSO		딮	Unix Connector			
	Event Notifications	Ticketing	System	Hig	h Availabilit	у		

In the GUI that opens, all discovered applications are listed.

ashboard	Accounts	Folders	Users Gr	roups Audit	Sessions	Reports	Admin				
dmin > Applicat	ons & Commands										
pplicatio	ns and Comma	ands for Privile	ge Elevation								
applications a Linux, you nee elevated) as p	nd commands. When yo I to add the commands rt of the 'Control Policie	u install the Securden a that are to be allowed or s' section.	gent on Windows endp not allowed to be run	privileges for application ioints and servers, the ap with SUDO privileges. You nge has to be approved by	plications that normally i a can review the list and a	require admin privileges a add any other application	re discovered and	d added here. You can al	Iso manually add appli	cations.	In the case o
a c III	Y Add Delete	e							Showi	ng 1 to 6	of 6 100
-											
Name ¢			Description	on		Туре		Status	s 4	ctions	
	(ctfmon.exe)			on I through Securden Agent		Type Application	(.exe)	Status ~ Act		ctions	Û
CTF Loade	(ctfmon.exe) Cleanup Manager for W	Yindows (cleanmgr.exe)	Imported						tive		° 10 10
CTF Loade	,		Imported	I through Securden Agent		Application	(.exe)	✓ Act	tive	R /	
CTF Loade Disk Space	Cleanup Manager for W	nHost.exe)	Imported Imported Imported	l through Securden Agent I through Securden Agent		Application Application	(.exe)	✓ Act	tive tive tive	Q /	° 🗇
CTF Loade Disk Space Dism Host	Cleanup Manager for W Servicing Process (Disn ss for Windows Tasks (1	nHost.exe) taskhostw.exe)	Imported Imported Imported	l through Securden Agent I through Securden Agent I through Securden Agent		Application Application Application	(.exe) (.exe)	✓ Act ✓ Act ✓ Act	tive tive tive	C. /	· · ·

Adding Applications Manually

While the automatic discovery takes time, if you want to instantly add applications, you can manually add them. To add applications, navigate to **Admin >> Privilege Elevation and Delegation >>** Applications and Commands section in the GUI and click the button **Add**.

Privileged Account Manager								Q√ Sea	rch Accounts	
shboard Accounts	Folders Users	Groups	Audit	Sessions	Reports	Admin				
min > Applications & Commands										
oplications and Command	s for Privilege Eleva	ation								
The essential aspect of privilege elevation a you install the Securden agent on Windows of to be run with SUBO privileges. You can revie Note: When an existing application or comm	endpoints and servers, the appli- ew the list and add any other app	cations that normally i plication or command	require admin privile that needs to be co	eges are discovered a introlled. You can defi	nd added here. You ca ne the policy (how sho	also manually add a	pplications. In the case of Linux, you	need to add the commands that a		
C III T Add Delete									Showing 1 to 7 of 7	100~
] Name ÷		De	escription				Туре	Status	Actions	
GTF Loader (ctfmon.exe)		in	ported through Se	curden Agent			Application (.exe)	✓ Active	14 Z	ŵ
Disk Space Cleanup Manager for Window	vs (cleanmgr.exe)	In	nported through Se	curden Agent			Application (.exe)	✓ Active	8 Z	۵.
Dism Host Servicing Process (DismHost	.exe)	In	nported through Se	curden Agent			Application (.exe)	✓ Active	= ×	til Til
Host Process for Windows Tasks (taskh	ostw.exe)	in	nported through Se	curden Agent			Application (.exe)	✓ Active	s /	ŵ
Lenovo.Vantage.AddinHost.Amd64 (Len	ovoVantage-(SmartDisplayAddir	n).exe) In	nported through Se	curden Agent			Application (.exe)	✓ Active	s /	ŵ
] Task Manager (Taskmgr.exe)		In	nported through Se	curden Agent			Application (.exe)	✓ Active	s. 2	til.
		in	ported through Se	curden Agent			Application (.exe)	✓ Active	B /	ŵ
Windows Logon User Interface Host (Log	(ononexe)			-						

In the GUI that opens, you need to define the Windows applications through multiple attributes so Securden can identify them.

Privileged Account Manager								Q ← Search Accounts	8
Dashboard Accounts Folder	s Users	Groups	Audit	Sessions	Reports	Admin			
Admin > Applications & Commands > Add Applications	and Commands								
Add Applications and Command	s								
This step actually helps Securden in identifying the you can define the commands that are to be run wit	applications and comman h (or not to be run with) SU	ds to be elevated. In th IDO privileges. To add	ne case of Windows commands, choose	applications, try to d the option 'Linux Co	efine them through n nmand' in the Type.	ultiple attributes	so that Securden is a	ble to identify them perfectly. In the case of Linux,	
Name* Microfoz		scription otepad alternative							
Type Application (.exe)	~								
Attributes									
Attribute Publisher / Digital Signature	Value*				+				
Save Cancel									
Help 🤨									

You need to specify the following details:

Name: Provide a name to uniquely identify this application/command in Securden.

Description: You can optionally give the application a brief description.

Type: Type of application (exe/msi/msc etc.)

Attributes: Attributes could be digital signatures, actual file path, original file name and hash value of files. You may provide any number of attributes as desired that would help Securden identify the application.

Once you have filled in all the details, click Save.

Adding Linux Commands

For controlling which commands can be run (or cannot be run) with **SUDO** privileges on Linux machines, you need to add the commands in Securden. Navigate to **Admin >> Privilege Elevation and Delegation >> Applications and Commands** section in the GUI and click the button **Add**" and select **Linux Command** for type.

Privileged Ad	count Manager									c	V Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
The otep doted		anarying the approac				ose the option 'Linux Co			oo anar oo oana	GT 10 MUIL 10 101	anay anta perconji a un ouor or	L
Name* Admin command			De	scription								- 1
Type Linux Command			~									
Linux Comma	nd											_
Example 1: /usr/	y the command with its bin/apt-get bin/apt-get install pyth		can also pass para	meters with the con	nmand.							
Command * /usr/bin/apt-get in:	stall python2											
Save Can	cel											

Ensure to specify the command with its absolute path. You can also pass parameters with the command.

Examples:

/usr/bin/apt-get /usr/bin/apt-get install python2

--

Step 3: Create Control Policies

After adding applications/commands, you need to define policies for a seamless, on-demand elevation of applications for standard users. This is basically, specifying the list of applications that are to be elevated for specific users on specific computers.

For example, you can create a policy whitelisting the ADUC application and associate it with computers in 'Department A' for 'User X' and 'User group Y.' ADUC will be elevated for User X and all users of group Y on the computers in Department A.

Similarly, in the case of Linux, you can specify the commands that can be run with SUDO privileges by specific users/groups on specific computers. Application control policies created here are to be associated with the needed computers and users or user groups.

To add application control policies, navigate to **Admin >> Privilege Elevation and Delegation >> Control Policies** section in the GUI.

Privileged Account	Manager								Q ← Search Accounts	
ashboard Acc	counts Folders	Users	Groups	Audit	Sessions	Reports	Admin			
	Q Search									
	Password & P	rivilege Requests		Authenticatio				Assets Association		
	Privilege Elev	ation & Delegatio	'n	💬 Email to SMS	Gateway		User - Assets/App Session Recording			
	Applications 8	Commands	_	🕹 Duo Security			Windows Remote			
	Control Polici	25		RADIUS Serve	r Settings	ස ස	Windows Session	Recorder		
	😡 Remove Admi	n Rights		Smart Card Au	thentication		Custom Applicatio			
	Securden Age	nts		Integrations						
	😤 Technician Ac	cess Policies		Active Director		Re	mote Distribu	tors		
	Automatic Ap	proval Policies					Application Server			
				Syslog for SIE	М	-	Unix Connector			
	Notifications			nt SAML SSO						
	Event Notifica	tions		Ticketing Syst	em	Hi	gh Availability			
						-				

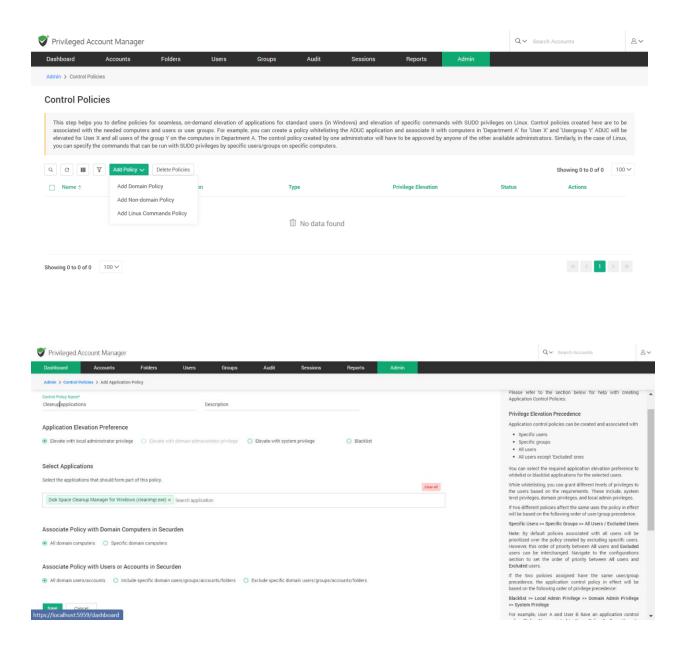
You need to create policies separately for domain-joined computers, nondomain computers, and Linux.

Creating Domain and Non-domain Control Policies

To create a control policy, Navigate to Admin >> Privilege Elevation and Delegation >> Control Policies

Privileged Acco	ount Manager									Q ← Search Accounts	8~	
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
	Q Sea	arch										
	Passv	vord & Privilege Req	uests		tication	ion	Domain Account - Assets Association					
	Privileg	e Elevation &	Delegation	💬 Emai	to SMS Gateway		😁 User - A		Associat	tion		
	📄 Applic	ations & Command	5	👌 Duo S	Security		Window	rs Remote Launcher				
	Contro	ol Policies		📮 RADI	US Server Setting:	3	쁝a Window	s Session Recorder				
	🔜 Remo	ve Admin Rights den Agents		💷 Smar	t Card Authentica	ion	🛷 Custom	Application Launch	her			
	-	ician Access Policie	:5	Integra	tions e Directory Domai	18	Remote	Distributors			- 1	
	🐼 Auton	natic Approval Polic	es		Directory Domain			tion Server				
	Notifica	itions		4824	g for SIEM		🛄 Unix Co	nnector			Ŧ	

In the GUI that opens, click **Add Policy** and select domain control policy for domain joined machines and non-domain policy for workgroup/external computers.



Step 1: Enter the following details in the interface

Control Policy Name: The name that you enter here helps you uniquely identify the control policy being created. This name will appear on the control policies list.

Description: An overview of the control policy describing what it does and then why this policy has been created

Step 2: Choose the level of elevation for the application(s)

Elevate with local admin privilege: Selecting this lets you run the application with local admin rights.

Elevate with system privilege: If you want to elevate services and processes within Windows that need the capability to log on internally with system privilege, select this option.

Blacklist: This option is to block usage of the application.

Step 3: Select the applications that are to be part of the policy

You can use the **Search application** field to select the required applications from the list or enter the application name and select it.

Step 4: Associating the policy with domain/non-domain computers

The next step is to specify the list of computers on which this policy should take effect. You can choose to have all domain/non-domain computers follow this policy or choose a specific set of computers to adhere to it.

Step 5: Associate policy with specific users/accounts

The final step is to associate the policy with the required domain users/user groups or domain accounts/folders (in the case of domain policy) and accounts/folders (in the case of non-domain policy). That means the policy will take effect on the users/groups/accounts/folders selected here on the computers chosen in the previous step.

Step 6: Once done with all the steps, proceed to click 'Save'.

Important Note: For security reasons, the application control policy created by one administrator will have to be approved by any one of the other available administrators. Securden sends notifications to the approvers, who can review applications and approve/reject the request from the "Control Policies" page. Until the policy gets approval, it will not take effect.

Linux Commands Policy

You have the option to specify if a command is to be allowed to be run with SUDO privileges or not by specific users or groups on specific computers. Linux command policies help achieve that.

To add application control policies, navigate to **Admin >> Privilege Elevation and Delegation >> Control Policies** section in the GUI and select Linux Command Policy.

Select the option "Grant SUDO Privilege" to allow running the command and "Deny SUDO Privilege" to restrict the usage of the command. Select the commands that are to be part of the policy

You can use the "**Select Commands**" field to select the required commands from the list, or enter the command name and select it.

Associate policy with specific accounts/folders

The final step is to associate the policy with the required accounts/folders. That means the policy will take effect on the accounts/folders selected here.

Technician Access Policies

IT help desk technicians often log on to end-user machines with administrative privileges to carry out certain tasks. This leads to various security and operational issues. To overcome such issues, Securden helps you define **`Technician Access Policies**'.

Typically, you can create policies authorizing specific technicians to perform administrative tasks on specific endpoints. Technicians can log on to end-user machines with standard user privileges and offer the required assistance. Their privilege will be elevated on-demand temporarily. You can specify the computers on which specific technicians can have technician access.

Create technician access policies

To create a technician access policy,

Navigate to Admin>> Privilege Elevation and Delegation >> Technician Access Policies

You need to create policies for domain-joined computers and non-domain computers separately. When creating the policy, you need to **select Domain Policy** or **Non-domain Policy** as required.

Follow the steps below to create a technician policy

The policy creation involves specifying the computers on which specific technicians should be able to access to perform various operations. The process is quite flexible - you can allow a technician or a group of technicians to access all computers or only specific computers. The technician could be a **user** or a **group** in Securden.

To create a policy, click **Add Policy** and select **Add Domain Policy** or **Non-domain Policy** as needed.

In the GUI that opens, enter the following information:

Technician policy name: The name that you enter here helps you uniquely identify the policy being created. **Description**: A brief of the policy for a quick overview

Select the computers and computer groups the technician could access

All the OUs and Groups imported from AD will be displayed as **Computer Groups** in Securden. In this step, you will specify the computers and computer groups that you want to authorize the technician to access and carry out the tasks. You can allow access to all computers or only for specific computers.

Associate policy with the technician

The final step is to associate the policy with the required technicians or groups. The 'technician' could be a 'user' or a 'group' in Securden. You can select either all 'users' or specific users/groups alone. For example, you can designate all members of the IT Help Desk group to access the computers selected in the previous step.

• To associate the policy with all domain users and accounts enable All domain users/accounts imported in Securden

• To select users or groups, use the **search user/group** and choose from the list of users/groups.

Finally, **Save** the changes.

Approval for policies

On completing this step, your technician access policy created will be reserved for review and approval by another administrator. You can check the approval status on the technician policies page. Approved policies will be shown as '**Active**'.

How to approve policies?

Administrators can approve the policies created by other administrators from **Admin >> Privilege Elevation and Delegation >> Technician Access Policies**. Administrators will receive email notifications when a policy is created and awaits approval

How do technicians commence access?

When a technician wants to access an endpoint, the technician must use the Securden tray icon present in the machine. (See the icon shown inside the red circle in the image below).

Upon clicking the tray icon, the technician will see a menu in which **Start Technician Access** will be one of the options. When that option is clicked, the technician will be prompted to enter credentials for authentication. The technician has to enter his/her domain account credentials to authenticate. Upon successful authentication, technician access will start.

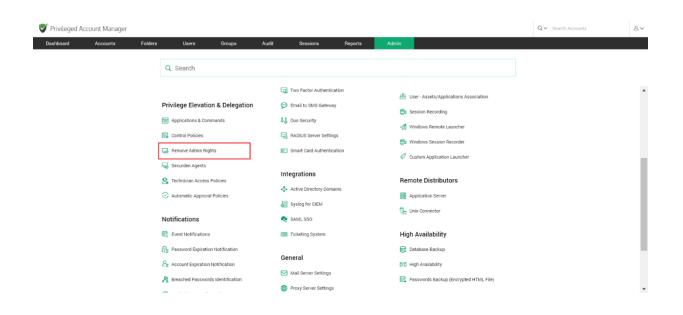
The technician will have administrative access and can carry out the required tasks. To elevate applications the technician should use **Run as Administrator** instead of **Run with Securden Privilege**. When doing so, the technician will see the UAC prompt, but along with that Securden screen will also overlay as shown in the screenshot below:

Finally, the technician must click **End Technician Access** accessavailable in the tray icon menu.

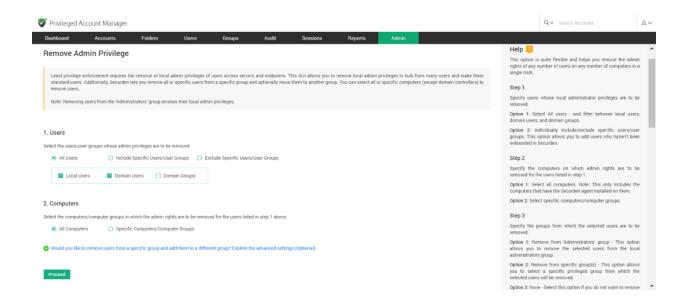
Eliminate Local Admin Rights

Along with the device discovery, the Securden agent captures the list of local administrator accounts on each computer. This helps you decide which devices require least privilege enforcement. Least privilege enforcement requires the removal of local admin rights of users across servers and endpoints.

Navigate to Admin >> Privilege Elevation and Delegation Management >> Remove Admin Rights



In addition to removing local admin privileges, this GUI allows you to remove users from any group on devices and add them to a different group.



This option is quite flexible and helps you manage the admin rights of any number of users on any number of computers with a single click.

Step 1: Selecting Target Users

You need to specify the users for whom you want to manage privileges. You have two options going forward.

Option 1: Select All users - and filter between local users, domain users, and domain groups.

Option 2: Individually include/exclude specific users/user groups. This option allows you to add users who haven't been onboarded in Securden.

Strivileged Account Manager	Q ✓ Search Accounts & A ✓
Dashboard Accounts Folders Users Groups Audit Sessions Reports Admin	
Admin > Remove Admin Rights	í
Remove Admin Privilege Least privilege enforcement requires the removal of local admin privileges of users across servers and endpoints. This GUI allows you to remove local admin privileges in bulk from many users and make them standard users. Additionally. Securden lets you remove all or specific users from a specific group and optionally move them to another group. You can select all or specific computers (except domain controllers) to remove users.	Help This option is quite flexible and helps you remove the admin rights of any number of users on any number of computers in a single click. Step 1
Note: Removing users from the 'Administrators' group revokes their local admin privileges.	Specify users whose local administrator privileges are to be removed.
	Option 1: Select All users - and filter between local users, domain users, and domain groups.
1. Users Select the users/user groups whose admin privileges are to be removed.	Option 2: Individually include/exclude specific users/user groups. This option allows you to add users who haven't been onboarded in Securden.
O All Users O Include Specific Users/User Groups 💿 Exclude Specific Users/User Groups	Step 2
Enter User/User Group Name	Specify the computers on which admin rights are to be removed for the users listed in step 1.
	Option 1: Select all computers. Note: This only includes the computers that have the Securden agent installed on them.
A Jake X A matthew X Admin Group X	Option 2: Select specific computers/computer groups.
	Step 3
	Specify the groups from which the selected users are to be removed.
	Option 1: Remove from 'Administrators' group - This option allows you to remove the selected users from the local administrators group.
2. Computers	Ontion 2: Damous from energie arounde) - This ontion allows

Step 2: Selecting Target Devices

Specify the computers on which rights are to be managed for the users selected in step 1. You have two options going forward.

Option 1: Select all computers. Note: This only includes the computers that have the Securden agent installed on them.

Option 2: Select specific computers/computer groups.

😻 Privileged Account Manager	Q ← Search Accounts	8~
Dashboard Accounts Folders Users Groups Audit Sessions Reports Admin		
	computers that have the Securden agent installed on them.	*
A Jake X A matthew X A Admin Group X	Option 2: Select specific computers/computer groups.	
	Step 3	
	Specify the groups from which the selected users are to be removed.	
	Option 1: Remove from 'Administrators' group - This option allows you to remove the selected users from the local administrators group.	
2. Computers	Option 2: Remove from specific group(s) - This option allows	
Select the computers/computer groups in which the admin rights are to be removed for the users listed in step 1 above.	you to select a specific privileged group from which the selected users will be removed.	
All Computers Specific Computers/Computer Groups	Option 3: None - Select this option if you do not want to remove users from any group	
Enter Computer/Computer Group Name	Step 4	
	Specify the groups to which users removed in Step 3 are to be	
₩ WIGPF2VK30P ×	added into .	
	Option 1: Add to the 'Users' group - This option allows you to add the users removed into the default 'Users' group, making them standard users with no admin privilege.	
	Option 2: Add to a specific group - This option allows you to add the users removed into a specific group/groups of your choice. Select the groups where you wish to add the users.	
3. Remove from Group	Option 3: None - Select this option if you do not want to add the users removed from group(s) specified in Step 3 to any other group(s).	
Select the groups from which the users (specified in step 1 above) are to be removed. If you know of any other groups with excess privileges, select those specific groups too.		
Remove from 'Administrators' group O Remove from specific group(s) O None		
		-

Step 3: Specify Source Groups

Selected users might be a part of groups with admin privileges in the selected devices. Specify the groups from which the selected users are to be removed. You have three options going forward.

Option 1: Remove from 'Administrators' group - This option allows you to remove the selected users from the local administrators group.

Option 2: Remove from specific group(s) - This option allows you to select a specific privileged group from which the selected users will be removed.

Option 3: None - Select this option if you do not want to remove users from any group

.

S Privileged Account Manager	Q∼ Search Accounts & A∼
Dashboard Accounts Folders Users Groups Audit Sessions Reports Admin	
All Computers Specific Computers/Computer Groups	Option 3: None - Select this option if you do not want to remove users from any group
Enter Computer/Computer Group Name	Step 4
	Specify the groups to which users removed in Step 3 are to be added into .
	Option 1: Add to the 'Users' group - This option allows you to add the users removed into the default 'Users' group, making them standard users with no admin privilege.
	Option 2: Add to a specific group - This option allows you to add the users removed into a specific group/groups of your choice. Select the groups where you wish to add the users.
3. Remove from Group	Option 3: None - Select this option if you do not want to add the users removed from group(s) specified in Step 3 to any other group(s).
Select the groups from which the users (specified in step 1 above) are to be removed. If you know of any other groups with excess privileges, select those specific groups too.	
🔿 Remove from 'Administrators' group 💿 Remove from specific group(s) 🔿 None	
Enter Group Name Effault Group Custom Group	
Admissmens 🛠	
4. Add to Group	

Step 4: Specify Destination Group

Specify the groups to which users removed in Step 3 are to be added into. You have three options going forward.

Option 1: Add to the 'Users' group - This option allows you to add the users removed into the default 'Users' group, making them standard users with no admin privilege.

Option 2: Add to a specific group - This option allows you to add the users removed into a specific group/groups of your choice. Select the groups where you wish to add the users.

Option 3: None - Select this option if you do not want to add the users removed from group(s) specified in Step 3 to any other group(s).

Privileged A	ccount Manager						Q ✓ Search Accounts	8
Dashboard	Accounts Folders	Users Groups	Audit Sessions	Reports	Admin			
4. Add to Grou								
	, om which the users (specified in step 1 abo	ove) are to be added to the group. If you	know of any other groups with excess	privileges, select those	specific groups too	h.		
Add to the '	Users' group (e) Add to specific group(s	s) 🔿 None						
Enter Group Na	me	Default Group	Custom Group					
Users X								
Proceed								

Once you've selected and specified all the required options, click on **Proceed.**

The selected users will be added/removed for specific/all devices based on your configurations.

Section 13: Customization

Customize Securden PAM

You can customize Securden PAM to suit your organization's unique needs. Securden allows you to create custom user roles, granularly switch on and switch off certain features, add your company logo, modify the text appearing at certain places, select the display language of product interface, and so on. Navigate to **Admin >> Customization** section to check the various customization options.

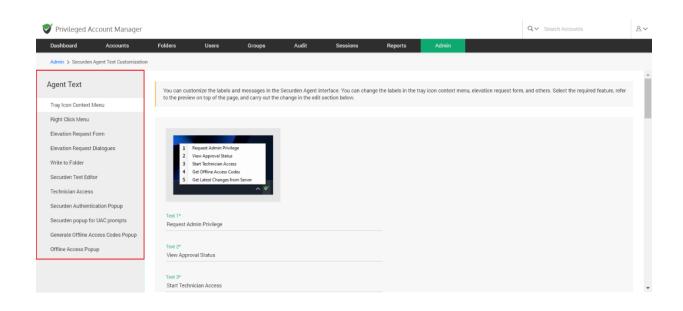
Securden Agent Text Customization

If you are using the Privilege Elevation and Delegation feature, you would be deploying the Securden agent on endpoints and servers. The agent displays various labels, context menus, and forms. You can customize the message text and labels appearing in the Securden agent interface. You can change the labels in the tray icon context menu, elevation request form, Securden text editor, and others.

To customize the agent text, navigate to **Admin >> Customization >> Securden Agent Text Customization.**

💙 Privileged Account Manager				$Q \sim$ Search Accounts	8~
Dashboard Accounts Folders	s Users Groups Audit	Sessions Reports	Admin		
	Q Search				
	Account Management	Customization	Security		^
	🔒 Account Types	🙀 Custom User Roles	용 Domain Administrator Groups		- 8
	Bassword Policy	Securden Agent Text Customization	② Change Encryption Key Location		- 1
	G Device Level Configurations	See Configurations	IP Address Restrictions		- 1
	5 SSH Templates For Password Reset	🐼 Logo, Theme and Text	O Block Access		- 1
	Event Listener				- 1
	Global Tags	API Access	Remote Sessions and Recordings		- 1
		Authentication Token For API Access	😓 Remote Gateway		
	Approval Workflow	Authentication	Assets for Remote Connections		
	🔂 Password & Privilege Requests		Domain Account - Assets Association		
		Two Factor Authentication	🕒 User - Assets/Applications Association		
	Privilege Elevation & Delegation	💬 Email to SMS Gateway	🛱 Session Recording		
	Applications & Commands	🕹 Duo Security	Windows Remote Launcher		
	Control Policies	RADIUS Server Settings			
			🛱 Windows Session Recorder		Ŧ

In the GUI that opens you have the following option to customize within the Securden Agent:



The LHS menu lists the different types of messages related to the Securden agent. The different types of customizable items are:

- Tray icon context menu The tray icon appears on right clicking the Securden Agent icon available on the taskbar tray.
- **Right Click Menu** The right click menu appears when you right-click any application that requires admin permissions to be run
- Elevation Request Form The elevation request form is the form that pops-up when a user requests admin access – either for a specific application or time-restricted full admin access.
- Elevation Request Dialogues Elevation request dialogues are those that appear on requesting access to an application. These dialogues usually depict messages to notify the user of a restricted application.
- Write to Folder This dialogue box appears when trying to paste content from the clipboard directly to a folder.
- Securden Text Editor This dialogue box appears when trying to paste content from the clipboard directly to a folder.
- Technician Access This includes all the dialogues that appear during technician access.
- Securden Authentication Pop-up The securden authentication popup appears when a user has to login using their user credentials for the device to confirm their identity.
- Securden Pop-up for UAC Prompts The pop-up appears when bypassing the Windows UAC prompt.
- Generate Offline Access Codes Pop-up This pop-up appears when a user attempts to generate access codes for privilege elevation during offline scenarios.
- Offline Access Pop-up This pop-up appears when a user uses offline codes for privilege elevation when the agent is disconnected from the Securden server.

You will see the related screenshots in each section. In the text fields below the respective screenshots, you can customize the text in the text fields.

Configurations

Securden lets you comprehensively enable, disable, and configure all the features that are part of the solution. You can make necessary modifications to the required features from the **Configurations tab** available under **Admin >> Customization**.

Defaults selection

When importing users from AD or file, what should be the default role?

While importing users from the Active directory, you can assign role to the users. You have the option to select which role users are imported with. When you click change, it shows the list of default roles and custom roles available. You can choose from the list of roles. The users which gets imported after changing the role will acquire that role.

While importing user groups from AD/Azure AD, do you want to configure automatic synchronization with Securden groups?

You can automatically synchronize the user groups in Securden with that of Active Directory. Automatic synchronization is applicable only for the user groups imported after saving this configuration. When users are added or deleted in AD, the same gets reflected here. You can also define the synchronization interval.

When you click change, a GUI with two options 'Configure' and 'No' appears. When you select No, automatic synchronization will be disabled. If you select 'Configure'

A GUI named 'Configure Automatic Group Synchronization' appears. You can customize the time interval with which the synchronization should happen. After selecting the time interval click on '**Save**' to see the changes.

When synchronizing user groups with AD in Securden, do you want to remove the users (from the group) who remain disabled in AD? If you select 'No' for this option, the disabled users in AD will only be disabled in Securden too. They will not be be removed from the respective group.

Securden allows you to remove the imported users who are disabled in the Active directory. If you don't want them to be removed you can just disable them.

When you click change, a GUI with two options Yes and No appears. If you select Yes, the disabled users in the Active Directory will be removed. If you select No, the disabled users in AD will only be disabled in Securden too. They will not be removed from the respective groups.

Do you want to receive an email alert on the remaining user license count (when you can add less than 5 users)?

Securden allows up to 5 free users. You have the option to receive email alert on the remaining user license when the added user count is less than 5. When you click change, a confirmation box will appear saying Yes and No. You'll receive email alerts if you select Yes and if you select No, it will be disabled.

Do you want to enable hotkeys?

Hotkeys here are nothing but the shortcut keys used inside the Securden UI. Securden has many hotkeys like ctrl+shift+U for copying account name, ctrl+shift+P for copying password, ctrl+shift+S for opening advanced search etc.

When you click change, a list with options like **Enable for all, Disable for all** and **Customize** appears. You can enable hotkeys for a custom list of users by selecting customize. If you select 'Enable', this configuration will be applicable only to the users/groups added below. If you select 'Disable', this configuration will be applicable to all users/groups except the ones added below.

You can enable hotkeys for a custom list of users. If you select 'Enable', this configuration will be applicable only to the users/groups added below. If you select 'Disable', this configuration will be applicable to all users/groups except the ones added below.

Do you want to send email alerts to users on user addition?

Securden sends email alerts to the users upon adding them. It is not mandatory. If you want to disable it, you can do it in the configuration section.

When you click change, it comes with the dropdown that says **Yes** and **No.** If you want to send email alerts, you can select **Yes** and if you don't want you can select **No.**

Do you want to send email alerts when users are added in specific roles?

Securden has the flexibility to send email alerts to specific roles. It is totally customizable.

When you click change, it shows options like No and Customize. You can choose from the options given. If you don't want to send email, you can select No. If you want to customize, you can select customize and make the required customization from the respective section.

Do you want to include the username of the creator and the time of creation as a footer in PDF reports?

Securden allows you to generate reports in the form of PDF. You have the option to include the username of the creator and the time of creation as a footer in PDF reports.

When you click change, a GUI with two options Yes and No appears. If you want to include the details in PDF, you can select Yes. If you don't want to include the details, you can select No.

Password Policy

Would you like to enforce password policy during account addition and local password resets?

Securden allows you to enforce password policy during account addition and local password resets.

When you click change, a GUI with two options Yes and No appears. If you select Yes, password policy will be enforced and if you click No, it will not be enforced.

You can enforce complexity rules for the passphrase to be used for offline access. Select a password policy to be enforced for that purpose.

Securden allows you to create and enforce the complexity rules for passphrase to be used for offline access. You have the option to specify and enforce an existing password policy for the passphrase used to encrypt the offline copy. When you click change, a GUI named 'Change Password Policy for Offline Access' appears. You have to enter password policy by clicking the drop- down and click '**Change policy**' to enforce them.

RESTful API

Do you want to allow API access for all users?

Securden allows you to have API access for all users. You can disable it for all and also customize it as desired. All these can be done in the **Admin>>Configurations section**.

When you click change, a dialog box with four options 'Allow for all', 'Deny for all', 'Deny for Users & Auditors' and 'Customize' appears. When you select 'Allow for all', all users will be allowed access and if you select 'Deny for all', all users will be denied from using API access. If you select 'Deny for Users & Auditors', only the Users & Auditors will be denied. If you select customize,

You can enable API access for a custom list of users. If you select 'Allow', this configuration will be applicable only to the users/groups added below. If you select 'Deny', this configuration will be applicable to all users/groups except the ones added. Click '**save**' to show changes.

Account Management

Do you want to enforce folder selection while adding/editing accounts?

Securden allows you to enforce folder selection while adding/editing accounts. You have the option to enable/disable/customize the folder selection. When you click change, a confirmation box with three options Enable for all, Disable for all and Customize appears. If you select enable for all, the folder selection will be enforced for all the users and if you select disable for all it will be disabled for all the users.

If you select customize, you can enforce folder selection while adding/editing accounts for a custom list of users. If you select 'Enable', this configuration will be applicable only to the users/groups added below. If you select 'Disable', this configuration will be applicable to all users/groups except the ones added.

Do you want to display the account details page in expanded form by default?

Securden allows you to display the account details page in expanded form by default. You can enable display of account details page in expanded form for a custom list of users.

When you click change, a dialog box with three options 'Enable for all', 'Disable for all' and 'Customize' appears. If you select 'Enable for all', It will be displayed for all users. If you select 'Disable for all', it will not be displayed for anyone. If you select Customize,

You can enable display of account details page in expanded form for a custom list of users. If you select 'Enable', this configuration will be applicable only to the users/groups added below. If you select 'Disable', this configuration will be applicable to all users/groups except the ones added.

Do you want to enforce users to provide reason while retrieving passwords?

Securden allows you to enforce users to provide reason while retrieving passwords. If you don't want to enforce it for all the users and you want to customize it for specific users/Groups, you can go ahead and do it.

When you click change, a dialog box with three options **Enable for all**, **Disable for all** and **Customize** appears. If you select **Enable for all**, all users will be providing reasons while retrieving passwords and if you select `Disable for all', this option will be disabled. If you select **Customize**,

You can enforce providing reason while retrieving passwords for a custom list of users . If you select 'Enable', this configuration will be applicable only to the users/groups added below. If you select 'Disable', this configuration will be applicable to all users/groups except the ones added.

Do you want to enforce users to provide reason while launching remote connections using the remote launch icon

Securden allows you to enforce users to provide reason while launching remote connections using the remote launch icon. You can disable it and also can customize it for specific Users/Groups.

When you click change, a dialog box with three options 'Enable for all', 'Disable for all' and 'Customize' appears. If you select 'Enable for all', it will be enforced for all the users and if you select 'Disable for all', it will be denied for all the users. If you select 'Customize',

You can enforce providing reason while launching remote connections via the remote launch button for a custom list of users. If you select 'Enable', this configuration will be applicable only to the users/groups added below. If you select 'Disable', this configuration will be applicable to all users/groups except the ones added. Finally click '**save**' to show changes.

Do you want to enforce users to provide reason while changing password?

Securden allows users to provide reason while changing passwords. You can disable it for all the users and also can customize it for specific Users/Groups..

When you click change, a dialog box with three options 'Enable for all', 'Disable for all' and 'Customize' appears. If you select 'Enable for all', it will be enforced for all the users and if you select 'Disable for all', it will be denied for all the users. If you select 'Customize', a GUI appears

You can enforce providing reason while changing passwords for a custom list of users . If you select 'Enable', this configuration will be applicable only to the users/groups added below. If you select 'Disable', this configuration will be applicable to all users/groups except the ones added. Click '**Save**' to show changes.

Do you want to enforce users to provide a reason while deleting accounts and folders?

Securden allows users to provide a reason while deleting accounts and folders. You can disable it for all the users and also can customize it for specific Users/Groups. When you click change, a dialog box with three options 'Enable for all', 'Disable for all' and 'Customize' appears. If you select 'Enable for all', it will be enforced for all the users and if you select 'Disable for all', it will be denied for all the users. If you select 'Customize', a GUI appears

You can enforce a custom list of users to provide a reason while deleting accounts and folders. If you select 'Enable', this configuration will be applicable only to the users/groups added below. If you select 'Disable', this configuration will be applicable to all users/groups except the ones added. Click '**Save**' to show changes.

Do you want to set password change on remote machines as the default option?

Securden allows users to set password change on remote machines as the default options. You can disable it for all the users and also can customize it for specific Users/Groups.

When you click change, a dialog box with three options 'Enable for all', 'Disable for all' and 'Customize' appears. If you select 'Enable for all', it will be enforced for all the users and if you select 'Disable for all', it will be denied for all the users. If you select 'Customize', a GUI appears

You can set password change as a default when logging into remote machines.. If you select 'Allow', this configuration will be applicable only to the users/groups added below. If you select 'Deny', this configuration will be

applicable to all users/groups except the ones added. Click **`save**' to show changes.

Do you want to display Recently Deleted Accounts by default?

Securden allows users to display Recently Deleted Accounts by default. You can disable it for all the users and also can customize it for specific Users/Groups.

When you click change, a dialog box with three options 'Enable for all', 'Disable for all' and 'Customize' appears. If you select 'Enable for all', it will be enforced for all the users and if you select 'Disable for all', it will be denied for all the users. If you select 'Customize', a GUI appears

You can set password change as a default when logging into remote machines.. If you select 'Allow', this configuration will be applicable only to the users/groups added below. If you select 'Deny', this configuration will be applicable to all users/groups except the ones added. Click '**save**' to show changes.

Do you want to restrict the time duration for password access requests as a part of 'Approval Workflow'? Once configured, users will have to specify a time duration (in minutes) within the maximum duration specified Securden allows an option to restrict the time duration for password access requests as a part of 'Approval Workflow'.

When you click change, a GUI 'Configure Maximum Time Duration for Password Access' appears. If you want to restrict time limit, select 'Restrict Time Duration' you can specify the upper limit (in minutes) within which users can request access for password and if you don't want, you can select 'No restriction'. Click '**save'** to show changes.

Do you want to deny account addition permission (work accounts) to the users with roles 'User' and 'Auditor'?

Securden have the option to deny account addition permission (work accounts) to the users with roles 'User' and 'Auditor'.

When you click change, a confirmation box will appear saying Yes and No. If you click Yes, users with roles 'Users' and 'Auditors' will be denied account addition permission and if you select No, users will not have any such restrictions.

Do you want to allow users with the roles 'User' and 'Auditor' to import accounts from files?

Securden allows users with the roles 'Users' and 'Auditor' to import accounts from files. If you don't want you can just disable it.

When you click change, a confirmation box will appear saying Yes and No.

If you click Yes, users with roles 'Users' and 'Auditors' will be allowed to import accounts from files and if you select No, users will not have any such permissions.

Do you want to allow users with roles 'User' and 'Auditor' to edit the details of accounts that are shared to them with `Manage' privilege?

Securden allows users with the roles 'Users' and 'Auditor' to edit the details of accounts that are shared to them with 'Manage' privilege. If you don't want you can just disable it.

When you click change, a confirmation box will appear saying Yes and No.

If you click Yes, users with roles 'Users' and 'Auditors' will be allowed to edit the details of accounts that are shared to them with 'Manage' privilege and if you select No, users will not have any such permissions.

Do you want to allow users (irrespective of the role) to view the 'Password History' of accounts if the share permissions allow them to view passwords?

Securden allows users(irrespective of the role) to view the 'Password History' of accounts if the share permissions allow them to view passwords. If you don't want you can just disable it.

When you click change, a dialog box with three options 'Enable for all', 'Disable for all' and 'Customize' appears. If you select 'Enable for all', it will be enforced for all the users and if you select 'Disable for all', it will be denied for all the users. If you select 'Customize', a GUI appears.

You can allow a custom list of users to view 'Password History' of accounts if they already have view permission. If you select 'Allow', this configuration will be applicable only to the users/groups added below. If you select 'Deny', this configuration will be applicable to all users/groups except the ones added. Click '**save**' to show changes.

Do you want to deny account sharing permission to the users with the roles 'User' and 'Auditor'?

Securden have the option to deny account sharing permission to the users with roles 'User' and 'Auditor'. If you don't want you can just disable it.

When you click change, a confirmation box will appear saying Yes and No. If you click Yes, users with roles 'Users' and 'Auditors' will be denied account sharing permission to the users with the roles 'User' and 'Auditor' and if you select No, users will not have any such restrictions.

Do you want to enforce selection of a parent folder while adding/editing folders?

Securden allows you to enforce selection of a parent folder while adding/editing folders. If you don't want you can disable it.

When you click change, a dialog box with three options 'Enable for all', 'Disable for all' and 'Customize' appears. If you select 'Enable for all', it will be enforced for all the users and if you select 'Disable for all', it will be denied for all the users. If you select 'Customize', a GUI appears.

You can enforce parent folder selection while adding/editing folders for a custom list of users. If you select 'Enable', this configuration will be applicable only to the users/groups added below. If you select 'Disable', this configuration will be applicable to all users/groups except the ones added. Click '**save'** to show changes.

During folder creation, do you want to enable 'permissions inheritance from parent folders' by default?

Securden allows you to enable 'permissions inheritance from parent folders' by default during folder creation. If you don't want you can disable it.

When you click change, a confirmation box will appear saying Yes and No. If you click Yes, 'permission inheritance from parent folders' will be enabled by default during folder creation and if you select No, it will be disabled. Do you want to enforce 'permissions inheritance from parent folders', while creating or editing a folder?

Securden allows you to enable 'permissions inheritance from parent folders' while creating or editing a folder. If you don't want you can disable it.

When you click change, a dialog box with three options 'Enable for all', 'Disable for all' and 'Customize' appears. If you select 'Enable for all', it will be enforced for all the users and if you select 'Disable for all', it will be denied for all the users. If you select 'Customize', a GUI appears.

You can enforce parent folder inheritance for specific users/groups. You can do this by selecting the list of users/groups and enable/disable parent folder inheritance. Click **'save'** to show changes.

Do you want to restrict users with roles 'User' and 'Auditor' from deleting the accounts owned by them?

Securden have the option to restrict users with roles 'User' and 'Auditor' from deleting the accounts owned be them. If you don't want you can just disable it.

When you click change, a confirmation box will appear saying Yes and No.

If you click Yes, users with roles 'User' and 'Auditor' will be restricted from deleting the accounts and if you select No, it will be disabled.

Upon clicking a folder in the 'Accounts' list view, do you want to show the accounts belonging to its sub-folders?

Securden have the option to show the accounts belonging to its sub-folders upon clicking a folder in the 'Accounts' list view. If you don't want you can just disable it.

When you click change, a dialog box with three options 'Enable for all', 'Disable for all' and 'Customize' appears. If you select 'Enable for all', it will be enforced for all the users and if you select 'Disable for all', it will be denied for all the users. If you select 'Customize', a GUI appears.

You can enable viewing of accounts belonging to the sub-folders while clicking a folder in the 'Accounts' list view a custom list of users. If you select 'Enable', this configuration will be applicable only to the users/groups added. If you select 'Disable', this configuration will be applicable to all users/groups except the ones added. Click '**save**' to show changes.

Do you want to show the folders tree in collapsed mode on the 'Folders' tab?

Securden have the option to show the folders tree in collapsed mode on the 'Folders' tab. If you don't want you can just disable it.

When you click change, a dialog box with three options 'Enable for all', 'Disable for all' and 'Customize' appears. If you select 'Enable for all', it will be enabled for all the users and if you select 'Disable for all', it will be denied for all the users. If you select 'Customize', a GUI appears.

You can apply this setting for specific users or a group alone. Select the names of users and groups here. If you select 'Enable', this configuration will be applicable only to the users/groups added. If you select 'Disable', this configuration will be applicable to all users/groups except the ones added. Click '**save**' to show changes.

Do you want to show the folders tree structure in 'Accounts' view in compact form collapsing the entries by default?

Securden have the option to show the folders tree structure in 'Accounts' view in compact form collapsing the entries by default. If you don't want you can disable it.

When you click change, a confirmation box will appear saying Yes and No.

If you click Yes, the folders tree structure in 'accounts' view in compact form collapsing the entries by default will be shown and if you select No, it will be disabled.

Do you want to allow users to add multiple accounts with the same account title?

Securden allows users to add multiple accounts with the same account title. If you don't want, you can just disable it.

When you click change, a confirmation box will appear saying Yes and No. If you click Yes, users can add multiple accounts with the same account title and if you select No, it will be disabled.

When ticketing system validation is enforced, do you want to enforce ticket ID validation during remote password reset operation?

Securden have the option to enforce ticket ID validation during remote password reset operation when ticketing system validation is enforced. If you don't want you can disable it.

When you click change, a confirmation box will appear saying Yes and No. If you click Yes, ticket ID validation during remote password reset operation will be enabled and if you select No, it will be disabled. How long (in days) would you like to keep the recently deleted accounts before permanently deleting them?

Securden allows an option to keep the recently deleted accounts before permanently deleting them for a period of time. You can specify the time period (in days).

When you click change, a GUI appears 'Recently Deleted Accounts Restoration'. You can specify the maximum number of days the recently deleted accounts to be kept for recovery. During this time window, you will have the option to recover. After that, the accounts will be permanently deleted. At last, click '**save**' to show changes.

Do you want the system default folders to be shown on the Accounts page?

Securden have the option to show the system default folders on the Accounts page. If you don't want.

When you click change, a dialog box with two options 'Yes' and 'Customize' appears. If you select Yes, the system default folders will be shown on the Accounts page and if you select Customize, a GUI appears

The list of default system folders is shown below. Select the ones that you want to see on the 'Accounts' page. The greyed-out items in the list cannot be disabled.

When searching for folders, do you want to include sub-folders in the search result?

Securden have the option to include sub-folders in the search result when searching for folders. If you don't want, you can disable it. When you click change, a confirmation box will appear saying Yes and No. If you click Yes, sub-folders will be included in the search result when searching for folders and if you select No, it will be disabled.

Do you want allow your users to create their own tags while adding or editing work accounts?

Securden allows your users to create their own tags while adding or editing work accounts. If you don't want, you can disable it.

When you click change, a dialog box with three options 'Allow for all', 'Deny for all' and 'Customize' appears. If you select 'Allow for all', users will be allowed to create their own tags while adding or editing work accounts and if you select 'Deny for all', it will be denied for all the users. If you select 'Customize', a GUI appears.

You can enable or disable specific users/groups from creating custom tags. Disabled users/groups will only be able to utilize existing tags while creating/editing accounts. Click **'save'** to show changes.

Do you want to customize the account details displayed in the 'Accounts' list view?

Securden allows you to customize the account details displayed in the 'Accounts' list view. If you don't want, you can disable it or even customize it. This can be done in the **Admin >> Configurations section**.

When you click change, a dialog box with two options 'No' and 'Customize' appears. If you select 'No', the account details cannot be customized in the 'Accounts' list view. If you select 'Customize', a GUI appears.

You have the option to select/deselect the account details displayed in the 'Accounts' list. The Account Title is displayed by default and cannot be disabled. Click '**save**' to show changes.

Do you want to display the account title shown on the web interface in multiple lines?

Securden allows you to display the account title shown on the web interface in multiple lines. If you don't want to display, you can just disable it.

When you click change, a confirmation box will appear saying Yes and No.

If you click Yes, the account title shown on the web interface will be displayed in multiple lines and if you select No, it will be disabled.

Remote Connections

When launching remote connections using a domain account, a list of FQDN/IP addresses will be displayed to which you can connect. Do you want to show the address of the domain account in the list?

Securden have the option to show the address of the domain account in the list. When launching remote connections using a domain account, a list of FQDN/IP addresses will be displayed to which you can connect. If you don't want, you can disable it.

When you click change, a confirmation box will appear saying Yes and No. If you select Yes, the address of the list will be shown in the list and if you want to disable it, you can select No.

When launching remote connections with specific addresses (FQDN/IP Address) using a domain account, do you want to display the list of permitted account addresses a user has access to?

Securden allows you to display the list of permitted account addresses a user has access to, When launching remote connections with specific addresses (FQDN/IP Address) using a domain account. If you don't want, you can disable it.

When you click change, a confirmation box will appear saying Yes and No. If you select Yes, the list of permitted account addresses a user has access to will be displayed and if you want to disable it, you can select No. When launching remote connections using a domain account, do you want to allow users to type the name of IT asset to be connected?

Securden allows users to type the name of IT asset to be connected when launching remote connections using a domain account. If you don't want, you can disable it.

When you click change, a confirmation box will appear saying Yes and No. If you select Yes, users will be allowed to type the name of IT asset to be connected and if you want to disable it, you can select No.

Do you want to allow remote Telnet connections? When the Telnet window is opened, Securden fills the credentials (password might get printed on the command window). Telnet protocol has its inherent security limitations that have limited its usefulness in environments where the network cannot be fully trusted. The use of Telnet over the public internet should be avoided as it carries the risk of eavesdropping. Allow this only after carefully considering the security aspects.

Securden have the option to allow remote Telnet connections. If you don't want, you can disable it.

Do you want to disable any type of remote connections available in Securden?

Securden allows you to disable any type of remote connections available. If you don't want, you can disable it or even customize it.

When you click change, a dialog box with two options 'No' and 'Customize' appears. If you select 'No', the option to disable any type of remote connections available will be denied. If you select 'Customize', a GUI appears.

Securden supports various protocols for launching remote connections. You may enable or disable any protocol as needed. Every connection type listed below is enabled by default, except Windows Telnet & Putty Telnet connections.

To disable a protocol, unselect it from the list below.

If you select to have Telnet connections, you need to additionally enable Telnet connections from Admin >> Customization >> Configurations >> Remote Connections. You can select up to five details to be shown in the details list.

Do you want to enable Bypass alerts from the securden agent when RDP connection is not launched through securden session manager?

Securden allows you to enable Bypass alerts from the securden agent when RDP connection is not launched through securden session manager. If you don't want, you can disable it. When you click change, a confirmation box will appear saying Yes and No. If you select Yes, Bypass agents from the Securden agent will be enabled and if you want to disable it, you can select No.

Do you want to enable the Securden agent to confirm its presence with the server? If yes, specify the time interval in which the agent tries contacting the server.

Securden allows you to enable the Securden agent to confirm its presence with the server. If you don't want, you can disable it.

You can specify the upper time limit (in minutes) within which the agent should contact the server to confirm its presence, on exceeding which an audit is captured. You can turn it off by selecting disable. Click '**save'** to show changes.

Export Accounts

Do you want to allow your users to export their work accounts as .xlsx file?

Securden allows your users to export their work accounts as .xlsx file. If you don't want, you can disable it or even customize it.

When you click change, a dialog box with three options 'Allow for all', 'Deny for all' and 'Customize' appears. If you select 'Allow for all', users will be allowed to export their work accounts as .xlsx file and if you select 'Deny for all', it will be denied for all the users. If you select 'Customize', a GUI appears.

You can allow a custom list of users to export their work accounts as .xlsx file. If you select 'Allow', this configuration will be applicable only to the users/groups added below. If you select 'Deny', this configuration will be applicable to all users/groups except the ones added. Click '**save'** to show changes.

Do you want to allow your users to export their personal accounts as .xlsx file?

Securden allows your users to export their personal accounts as .xlsx file. If you don't want, you can disable it or even customize it.

When you click change, a dialog box with three options 'Allow for all', 'Deny for all' and 'Customize' appears. If you select 'Allow for all', users will be allowed to export their personal accounts as .xlsx file and if you select 'Deny for all', it will be denied for all the users. If you select 'Customize', a GUI appears.

You can allow a custom list of users to export their personal accounts as .xlsx file. If you select 'Allow', this configuration will be applicable only to the users/groups added below. If you select 'Deny', this configuration will be applicable to all users/groups except the ones added. Click '**save**' to show changes.

Do you wish to conceal the password column when users export their work accounts as .xlsx file?

Securden have the option to conceal the password column when users export their work accounts as .xlsx file. If you don't want, you can disable it or you can even customize it.

When you click change, a dialog box with three options 'Enable for all', 'Disable for all' and 'Customize' appears. If you select 'Enable for all', the password column will be concealed when users export their work accounts as .xlxs file and if you select 'Disable for all', it will be denied for all the users. If you select 'Customize', a GUI appears.

You can conceal the password column while exporting work accounts as .xlsx file for a custom list of users. If you select 'Enable', this configuration will be applicable only to the users/groups added below. If you select 'Disable', this configuration will be applicable to all users/groups except the ones added. Click '**save**' to show changes.

Do you want to allow offline access for your users? If allowed, they will be able to download their data as an encrypted HTML file.

Securden have the option to allow offline access for your users. If allowed, they will be able to download their data as an encrypted HTML file. If you don't want, you can disable it and you can even customize it.

When you click change, a dialog box with three options 'Enable for all', 'Disable for all' and 'Customize' appears. If you select 'Enable for all', your users will

be allowed offline access and if you select 'Disable for all', it will be denied for all the users. If you select 'Customize', a GUI appears.

You can allow offline access for a custom list of users. If you select 'Allow', this configuration will be applicable only to the users/groups added below. If you select 'Deny', this configuration will be applicable to all users/groups except the ones added. Click '**save'** to show changes.

Privilege Management

Would you like to automatically approve admin privilege elevation requests?

Securden allows you to automatically approve admin privilege elevation requests. If you don't want, you can disable it.

When you click change, a confirmation box will appear saying Yes and No. If you click Yes, admin privilege elevation requests will be automatically approved and if you select No, it will be disabled.

.

Would you like to allow applications to be elevated with domain admin privilege?

Securden have an option to elevate the applications with domain admin privilege. If you don't want, you can disable it.

When you click change, a confirmation box will appear saying Yes and No. If you click Yes, applications will be elevated with domain admin privilege and if you select No, it will be disabled.

Do you want to allow discovery of applications running on endpoints and servers upon installing Securden agents?

Securden allows discovery of applications running on endpoints and servers upon installing Securden agents. If you don't want, you can disable it.

When you click change, a confirmation box will appear saying Yes and No. If you click Yes, discovery of applications running on endpoints and servers will be enabled upon installing Securden agents and if you select No, it will be disabled.

On clicking the Securden agent tray icon on endpoints, what options would you like to show?

Securden allows to show the options by clicking the Securden agent tray icon on endpoints. If you don't want, you can disable it or even customize it.

When you click change, a dialog box with three options 'Application elevation for endusers', 'Technician access', and 'Both' appears. If you select 'Application elevation for endusers', only this option will be enabled and if you select 'Technician access', technician access option will be enabled in the agent tray icon. When you select 'Both', you can avail both options.

Securden agent can fetch the latest changes from the server periodically at a specified interval. Would you like to set that time interval (in minutes) here?

Securden agent can fetch the latest changes from the server periodically at a specified interval. It allows to set that time interval (in minutes) here.

When you click change, a GUI 'Data Fetch Interval' appears. You can specify the time interval (in minutes) at which the Securden agent will periodically fetch data from the server. Click '**save'** to show changes.

Do you want to allow users to edit username on the authentication screen shown by Securden agent?

Securden allows users to edit username on the authentication screen shown by Securden agent. If you don't want, you can disable it. When you click change, a confirmation box will appear saying Yes and No. If you select Yes, users will be allowed to edit the username on the authentication screen shown by Securden agent and if you want to disable it, you can select No.

Securden agent discovers running processes periodically. Do you want to create applications for the discovered processes?

Securden agent discovers running processes periodically. It allows you to create applications for the discovered processes. If you don't want, you can disable it.

When you click change, a confirmation box will appear saying Yes and No. If you select Yes, applications can be created for the discovered processes and if you don't want to disable it, you can select No.

Do you want to display the option to reinstall/upgrade and uninstall the Securden agent on the computer details page?

Securden allows you to display the option to reinstall/upgrade and uninstall the Securden agent on the computer details page. If you don't want, you can disable it.

When you click change, a confirmation box will appear saying Yes and No. If you select Yes, the option to reinstall/upgrade and uninstall the Securden agent on the computer details page will be displayed and if you don't want it, you can select No.

Do you want to send a notification email to all approvers when a request is approved or rejected by a designated approver?

Securden have an option to send a notification email to all approvers when a request is approved or rejected by a designated approver. If you don't want, you can disable it

When you click change, a confirmation box will appear saying Yes and No. If you select Yes, notification email will be sent to all approvers and if you don't want, you can select No.

Do you want to enforce authentication to protect the Securden Agent from being uninstalled?

Securden provides an option to enforce authentication to protect the Securden Agent from being uninstalled. If you don't want, you can disable it.

When you click change, a GUI 'Set Authentication for Agent Uninstallation' appears. In that you can enforce a password requirement to prevent users from uninstalling the Securden Agent. To set a password requirement, click 'Yes' and enter a password. By clicking 'No', users will be able to uninstall the Agent directly. The best practice is to set a password to stop the Agent from being uninstalled. Click '**save**' to show changes.

While creating control policies, do you want to give 'Exclude' users a higher preference than 'All' users? If you choose Yes, a policy that excludes specific users will precede a different policy created for all users.

Securden gives you an option to 'Exclude' users a higher preference than 'All' users while creating control policies. If you don't want , you can disable it.

When you click change, a confirmation box will appear saying Yes and No.

If you select Yes, a policy that excludes specific users will precede a different policy created for all users and if you want to disable it, you can select No.

Do you want to enable/disable the Securden Agent to be upgraded automatically?

Securden has the option to enable/disable the Securden Agent to be upgraded automatically. If you don't want, you can disable it.

When you click change, a GUI 'Configure Agent Auto-Upgrade' appears. You have the option to upgrade the Securden Agent automatically when a newer version is available. If you Enable auto-upgrade, you need to specify the time slot during which the agent should be upgraded. It is recommended to select a time slot outside your regular business hours. If you Disable auto-upgrade, the agent will not be upgraded automatically. Click '**save**' to show changes.

Do you want to automatically pull changes from server whenever the user attempts to run applications as administrator using the UAC prompt?

Securden allows you to automatically pull changes from server whenever the user attempts to run applications as administrator using the UAC prompt. If you don't want, you can disable it.

When you click change, a confirmation box will appear saying Yes and No.

If you select Yes, changes will be pulled automatically from server and if you don't want, you can disable it.

Do you want to display the Securden privilege elevation popup over the UAC prompt whenever users attempt to elevate applications?

Securden allows you to display the Securden privilege elevation popup over the UAC prompt whenever users attempt to elevate applications. If you don't want, you can disable it.

When you click change, a confirmation box will appear saying Yes and No. If you select Yes, the Securden privilege elevation popup will be displayed and if you don't want, you can disable it.

Offline Access

Do you want to allow automatic approval for privilege elevation requests if the user is on the automatic approval list?

Securden allows automatic approval for privilege elevation requests if the user is on the automatic approval list. If you don't want, you can disable it or even customize it.

When you click change, a confirmation box will appear saying Yes and No.

If you click Yes, automatic approval for privilege elevation requests if the user is on the automatic approval list will be enabled and if you select No, it will be disabled.

Do you want to allow offline automatic approval for privilege elevation requests if the user who is raising the request has already generated offline access codes?

Securden allows offline automatic approval for privilege elevation requests if the user who is raising the request has already generated offline access codes.

You can specify the maximum number of codes a user can generate and use to raise approval requests for temporary elevated access in offline scenarios. You can choose to apply this setting for any specific purpose as below. You have the option to specify the maximum time duration the user can have elevated access. Click **'save'** to show changes. Do you want to allow users to regenerate offline codes? Even if you choose 'No', Users included in Automatic Approval Policies will be able to regenerate offline codes.

Securden allows users to regenerate offline codes. Even if you choose 'No', Users included in Automatic Approval Policies will be able to regenerate offline codes. If you don't want, you can disable it.

When you click change, a confirmation box will appear saying Yes and No. If you click Yes, users will be able to regenerate offline codes and if you select No, it will be disabled.

Do you want to allow privilege elevation in offline scenarios using access codes generated by the admin?

Securden allows privilege elevation in offline scenarios using access codes generated by the admin.

You can choose to allow users to use an Admin-Generated offline code for temporarily elevating specific applications or for gaining full admin access or both. You have the option to specify the maximum time duration the user can have elevated access. Click **'save**' to show changes.

Temporary Full Admin Access

Do you want to restrict the time duration for elevation requests? Once configured, users will have to specify a time duration (in minutes) within the maximum duration specified.

Securden have the option to restrict the time duration for elevation requests. Once configured, users will have to specify a time duration (in minutes) within maximum duration specified.

You can specify the upper limit (in minutes) within which users can request access for elevated access. Click '**save'** to show changes.

When allowing users to request for extending their elevated access, do you want to specify a restriction on the maximum time duration (in minutes)? If specified, users will be able to ask for an extension within the duration specified.

Securden have the option to specify a restriction on the maximum time duration (in minutes) when allowing users to request for extending their elevated access. If specified, users will be able to ask for an extension within the duration specified.

You can specify the upper time limit (in minutes) within which users can ask for an extension of the elevated access. For example, if you specify 30 minutes, users will be able to request an extension for 30 minutes or less. Click '**save**' to show changes.

Would you like to configure which privilege elevation requests can be raised by users? If set to 'Full Admin Access', they would only be able to raise requests for full admin access and not for specific applications. If set to 'For a Specific Application', they would only be able to raise requests for accessing specific applications and not for full admin access. To allow raising requests for the two, set the configuration to 'Both'.

Securden allows you to configure which privilege elevation requests can be raised by users.

When you click change, a dialog box with three options 'Application Access', 'Full Admin Access' and 'Both' appears. If set to 'Full Admin Access', they would only be able to raise requests for full admin access and not for specific applications. If set to 'For a Specific Application', they would only be able to raise requests for accessing specific applications and not for full admin access. To allow raising requests for the two, set the configuration to 'Both'.

When you grant temporary full administrator rights, the explorer process would be killed. Would you like to restart it when the user gains administrator rights? Securden allows you like to restart it when the user gains administrator rights. When you grant temporary full administrator rights, the explorer process would be killed. If you don't want, you can disable it.

When you click change, a confirmation box will appear saying Yes and No. If you click Yes, the process will be restarted when the user gains administrator rights and if you select No, it will be disabled.

When granting temporary full administrator rights, would you like to add the user to the administrator group for the session? This will make the user a full administrator for the limited time-duration.

Securden allows you to add the user to the administrator group for the session when granted temporary full administrator rights. This will make the user a full administrator for the limited time-duration. If you don't want, you can disable it.

When you click change, a confirmation box will appear saying Yes and No. If you click Yes, the user will be added to the administrator group for the session and if you select No, it will be disabled.

If new administrator users are created when a user makes use of temporary administrator privileges, would you like to remove the newly created user from the admin group? Securden allows you to remove the newly created user from the admin group, If new administrator users are created when a user makes use of temporary administrator privileges. If you don't want, you can disable it.

When you click change, a confirmation box will appear saying Yes and No. If you click Yes, the newly created user from the admin group will be removed and if you select No, it will be disabled.

Technician Access

Would you like to configure the MFA system used in the organization to be the additional authentication factor during technician access by users?

Securden allows you to configure the MFA system used in the organization to be the additional authentication factor during technician access by users. If you don't want, you can disable it.

When you click change, a confirmation box will appear saying Yes and No. If you click Yes, the MFA system used in the organization to be the additional authentication factor during technician access by users will be configured and if you select No, it will be disabled. Do you want to restrict the time duration for Technician access? Once configured, users will have to specify a time duration (in minutes) within the maximum duration specified.

Securden have the option to restrict the time duration for Technician access. Once configured, users will have to specify a time duration (in minutes) within the maximum duration specified.

When you click change, a GUI appears. In that, you can specify the upper limit (in minutes) within which users can request access for technician access. Click `**save'** to show changes.

Personal

Do you want to allow your users to manage personal accounts?

Securden allows your users to manage personal accounts. If you don't want, you can disable it or even customize it.

When you click change, a dialog box with three options 'Allow for all', 'Deny for all' and 'Customize' appears. If you select 'Allow for all', users will be allowed to export their personal accounts as .xlsx file and if you select 'Deny for all', it will be denied for all the users. If you select 'Customize', a GUI appears. You can allow a custom list of users to manage personal accounts. If you select 'Allow', this configuration will be applicable only to the users/groups added below. If you select 'Deny', this configuration will be applicable to all users/groups except the ones added. Click 'save' to show changes.

Browser Extension

Do you want to allow automatic submission of credentials for directly logging in to websites using browser extension?

Securden allows your users to export their personal accounts as .xlsx file. If you don't want, you can disable it or even customize it.

When you click change, a dialog box with three options 'Enable for all', 'Disable for all' and 'Customize' appears. If you select 'Enable for all', the password column will be concealed when users export their work accounts as .xlxs file and if you select 'Disable for all', it will be denied for all the users. If you select 'Customize', a GUI appears.

When accounts are shared with 'Open Connection' permission, do you want to allow automatic filling of credentials on websites using browser extension?

Securden allows automatic filling of credentials on websites using browser extension when accounts are shared with 'Open Connection' permission. If you don't want, you can disable it or even customize it. This can be done in the **Admin >> Configurations section**.

When you click change, a dialog box with three options 'Enable for all', 'Disable for all' and 'Customize' appears. If you select 'Enable for all', automatic filling of credentials on websites using browser extension will be allowed and if you select 'Disable for all', it will be denied for all the users. If you select 'Customize', a GUI appears.

You can enable automatic filling of credentials on websites using browser extension when accounts are shared with 'Open Connection' permission for a custom list of users. If you select 'Enable', this configuration will be applicable only to the users/groups added below. If you select 'Disable', this configuration will be applicable to all users/groups except the ones added. Click '**save'** to show changes.

Do you want the Securden browser extension's auto-fill icon to be present in all input fields of the web pages?

Securden allows browser extension's auto-fill icon to be present in all input fields of the web pages. If you don't want, you can disable it or even customize it.

When you click change, a dialog box with three options 'Enable for all', 'Disable for all' and 'Customize' appears. If you select 'Enable for all', Securden's browser extension's auto-fill icon will be present in all input fields of the web pages for all Users/Groups and if you select 'Disable for all', it will be denied for all the users. If you select 'Customize', a GUI appears. You can enable Securden autofill icon to be filled in all input fields on websites. If you select 'Enable', this configuration will be applicable only to the users/groups added below. If you select 'Disable', this configuration will be applicable to all users/groups except the ones added. Click '**save'** to show changes.

Mobile App

Do you want to enable MFA for Securden mobile application?

Securden allows you to enable Multi Factor Authentication for Securden mobile application. You can disable it or you can also customize it for specific Users/Groups.

When you click change, a dialog box with three options 'Enable for all', 'Disable for all' and 'Customize' appears. If you select 'Enable for all', it will be enforced for all the users and if you select 'Disable for all', it will be denied for all the users. If you select 'Customize', a GUI appears

You can enable MFA for Securden mobile application for a custom list of users. If you select 'Enable', this configuration will be applicable only to the users/groups added below. If you select 'Disable', this configuration will be applicable to all users/groups except the ones added. Click '**Save**' to show changes.

General

Do you want to check the Active Directory port before initializing the connection with the AD? If yes, specify the time duration in seconds after which the check times out.

Securden provides an option to check the Active Directory port before initializing the connection with the AD. You can specify the time duration in seconds after which the check times out. If you don't want, you can disable it or even customize it.

When you click change, a GUI appears. In that, you can specify the time duration (in seconds) within which a response from the Active Directory domain controller is expected. Click **'save'** to show changes.

What should be the default application logging level setting?

Do you want to run password verification schedule everyday?

Securden have an option to run password verification schedule everyday. If you don't want, you can disable it.

When you click change, a confirmation box will appear saying Yes and No. If you click Yes, the option to run password verification schedule everyday will be enabled and if you select No, it will be disabled. Do you want to disable local authentication in Securden? In case, you choose not to allow local authentication, no local user will be able to login into Securden.

Securden have an option to disable local authentication. In case, you choose not to allow local authentication, no local user will be able to login into Securden. If you don't want, you can disable it or even customize it.

When you click change, a confirmation box will appear saying Yes and No. If you click Yes, the option to disable local authentication will be enabled and if you select No, it will be disabled.

Do you want to display 'forgot password' option in Securden login GUI? In case, you choose not to allow this, no one in your organization, including the super administrator will see 'forgot password' link.

Securden allows an option to display 'forgot password' in Securden login GUI. In case, you choose not to allow this, no one in your organization, including the super administrator will see 'forgot password' link. If you don't want, you can disable it or even customize it.

When you click change, a confirmation box will appear saying Yes and No. If you click Yes, the option to display 'forgot password' in Securden login GUI will be enabled and if you select No, it will be disabled.

Do you want to customize the footer section for emails generated by Securden?

Securden allows you to customize the footer section for emails generated. If you don't want, you can disable it or even customize it.

When you click change, a GUI appears. In that You have the option to modify the footer section in emails generated by Securden. You can customize the existing copyright text and the footer message. Click '**save'** to show changes.

How long should the web session be active (in minutes) when things are idle?

Securden allows you to specify the maximum time (in minutes) should the web session be kept active when things are idle. You have the option to keep the session active indefinitely too.

When you click change, a GUI named 'Change Inactivity Timeout' appears. In that, you can choose 'Keep Active Indefinitely' if you want to keep the session alive or choose 'Specify Session Timeout' if you want to customize the maximum time. You have the option to logout the session on closing the browser. You can select the checkbox if you want to enable it. Click '**save**' in the end.

What should be the default date and time display format?

You can define the specific format in which the date and time should be displayed in the GUI. There is a list of various time and date formats available and you can choose from it.

When you click change, a GUI with a list of date and time display format appears. You can choose the desired format from the list. Click **'save**' to show changes.

Do you want to disable the Super Administrator role?

Securden has 5 pre-defined user roles which includes user, auditor, account manager, administrator and super administrator. Super administrator is a kind of break glass account. They will not have any access control. They will be able to just view all the data stored in the application. If you don't want a super administrator role, you can disable it.

When you click change, a dialog box comes up with two options 'enable' and 'disable'. If you want a super administrator role you can click enable and if you don't want, you can disable it.

Changing Logo, Theme, and Text

You can replace the Securden logo that appears in the login page and throughout the GUI with your own logo. Navigate to **Admin** >> **Customization** >> **Logo, Theme and Text.**

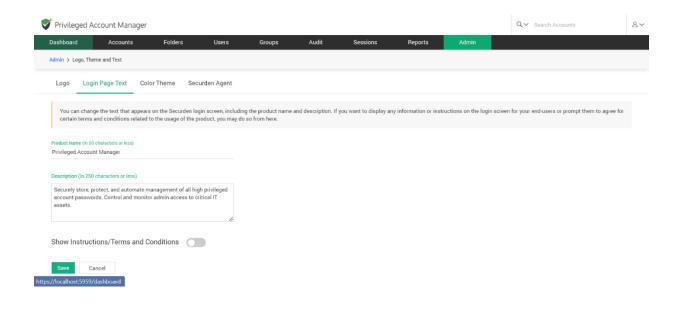
💙 Privileged A	ccount Manage	er								Q 🛩 Search Accounts	2~
Dashboard	Accounts	Folders C Search Account Manag Account Types C Password Policy			Audit Customizatio Custom User F Securden Ager			Admin Security Que Domain Admini Change Encryp			ĺ
		Device Level Cont SSH Templates F Event Listener Global Tags			Configurations Config]	 P Address Res Block Access Remote Sessi Remote Gatewa 	ons and Recordings		
		Approval Workf	lege Requests	on	Authenticatio	thentication			nt - Assets Association		·

Click on Logo and you can upload your logo which will replace the Securden logo that appears throughout the GUI. The logo can be uploaded in the PNG or JPG format.

Login Page Text

You can change the text that appears on the Securden login screen, including the product name and description. If you want to display any information or instructions on the login screen for your end-users or prompt them to agree to certain terms and conditions related to the usage of the product, you may do so here.

Click the Admin >> Customization >> Logo, Theme and Text >> Login Page Text.



Color Theme

By default, Securden web interface follows the green color theme. You may change it and assign a different color theme by selecting a color below. The theme you set here will be the default theme for your organization and take effect for all users. However, end users can overwrite this and can choose a theme of their choice for their own views. If any of your users have already changed their theme, the change you make here will not take effect for them.

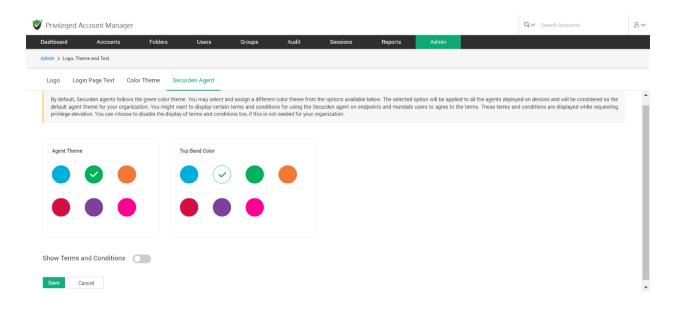


Click on Admin >> Customization >> Logo, Theme and Text >> Color Theme

After selecting the theme mode and theme color, click on the Save button. "Product color theme changed successfully" will be displayed on top of the screen after it is saved.

Securden Agent Theme

By default, Securden agents follows the green color theme. You may select and assign a different color theme from the options available below. The selected option will be applied to all the agents deployed on devices and will be considered as the default agent theme for your organization. You might want to display certain terms and conditions for using the Securden agent on endpoints and mandate users to agree to the terms. These terms and conditions are displayed while requesting privilege elevation. You can choose to disable the display of terms and conditions too, if this is not needed for your organization.



Product Language Selection

Securden supports multiple languages, and you can select the desired language here. The language of the machine in which Securden is installed is taken as the system default language. From the list of supported languages, you can select the ones required for your organization. You can then select one of the languages as the 'default' selection for your organization. When you do so, all your users will see the product in that language. Individual users will have the option to select any language from the list of languages approved by you.

Navigate to Admin>> Customizations >> Product Language Selection.

Privileged Ac	count Manager									Q ← Search Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Admin > Product La	nguage Selection										
Product Lan	guage Select	tion									
the ones required		n. You can then selec								From the list of supported languages, you can e. Individual users will have the option to sele	
Pick Desired L											
	ne following language	s at present. Select th	he ones that are rec	quired for your organ	ization. End users	will get the option to	use one of the languag	es selected by you			
English (Default)											
French											
Deutsch											
System Defaul	t Language										
You can specify one you.	of the languages selec	cted above as the sys	stem default langua	age. The language th	at is set as the def	ault language will app	ear for all your users.	However, they can	later override the defa	ult selection and use one of the languages app	oved by
English	Change										

The screen will display the languages that are currently supported by Securden. You will have to select the language from Pick Desired Languages according to your organization's requirements. Once the desired language is enabled, a message "Language Activated Successfully" will be displayed on top of the screen. When you disable any language, it will display the message - Language deactivated successfully. End users will get the option to use one of the languages selected by you.

The languages available and supported by Securden at present are:

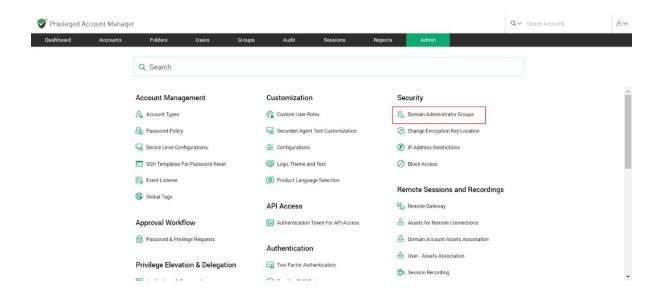
- English
- French
- Deutsch

Then you can specify one of the languages selected above as the System Default Language. The language selected as default here will appear for all your users. However, they can later override the default selection and use one of the languages approved by you.

Section 14: Security Settings

You can carry out certain security settings to protect the Securden installation and control access to the interface.

Monitor Changes to Domain Admin Groups



Manipulating a domain administrator group such as the **Domain Admins** could make the organization susceptible to security risks. You can create a scheduled task to get notified if there is any modification to the domain administrator groups. When new members get added to or removed from the domain administrator groups, you will get notified about the change. Securden can monitor the changes to the domain admin groups of all the

Active Directory domains added to the product. You can create a scheduled task to periodically monitor and send notifications.

How to Schedule Notifications?

To Schedule Notifications, Navigate to **Admin >> Security >> Domain Administrator Groups.** In the GUI that opens, click the button **Schedule Notify**.

Privileged Account Man	ager								Q ← Search Accounts	
Dashboard Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Admin > Domain Administrator Gro	ups									
omain Administrate	or Groups Chang	ge Notificati	on							
Manipulating a domain adminis When new members get added						ou can create a schedu	uled task to get r	otified if there is any mo	dification in the domain administrator gr	oups.
omain Name: SECURDEN.	AWS.COM G Add Ne	w Domain								
Q C III Schedule Noti	Sync Members								Showing 1 to 16 of 16	100 🗸
lember 0	Username	Dir	stinguished Name							
Administrators (7 Members)										
		c	I=Administrator,CN=							
& Administrator	Administrator			Users,DC=SECUR	DEN,DC=AWS,DC=CON	E.				
 Administrator Domain Admins 	Administrator		I=Domain Admins,C		JRDEN,DC=AWS,DC=CON					
	Administrator	Ct		N=Users,DC=SECI	JRDEN,DC=AWS,DC=C		'S,DC=COM			
& Domain Admins		cr	l=Parthasarathy Dha	N=Users,DC=SECl armalingam,OU=D	JRDEN,DC=AWS,DC=C eveloper,OU=AllUsers,I	DM				

You have two options here - carry out the check once (Notify Once) at the required timeslot and trigger notification (or) carry out the check at periodic intervals (Notify Periodically). Select the required option in GUI.

You can choose to send notifications to all Administrators or all Super administrators or to both administrators and super administrators. Select the checkbox as needed. You can even add email addresses directly in comma separated form in the **Specific Email Address** field. When you navigate to Admin >> Security >> Domain Administrator Groups section in the GUI, it typically shows the list of all administrator groups present in the selected domain. You can click the button Sync Members to view the latest data anytime.

As mentioned above, you can monitor the changes to domain admin groups for multiple domains. You can add the domains to be monitored by clicking the button **Add New Domain.**

Privileged Accou	unt Manager							Q ← Search Accounts	٤
Dashboard	Accounts Folders	Users (roups Aud	it Sessions	Reports	Admin			
Admin > Domain Admini	istrator Groups								
Domain Admin	nistrator Groups Chan	ge Notification							
	ain administrator group such as 'Do get added to or removed from the do				You can create a sche	duled task to get n	otified if there is any	modification in the domain administra	tor groups.
Domain Name: SEC	CURDEN.AWS.COM	lew Domain							
Q C III Se	chedule Notify Sync Members							Showing 1 to 16 of 1	6 100 ∨
Member 0	Username	Distingui	shed Name						
		Distingui	shed Name						
各 Administrators (7				SECURDEN,DC=AWS,DC=C	DM				
용 Administrators (7 용 Administrator	7 Members)	CN=Adm	inistrator,CN=Users,DC=	SECURDEN.DC=AWS.DC=C C=SECURDEN.DC=AWS.DC					
& Administrators (7 & Administrator & Domain Admins	7 Members) Administrator	CN=Adm CN=Dom	inistrator,CN=Users,DC= ain Admins,CN=Users,D		COM	WS,DC=COM			
Member : & Administrators (7 & Administrator & Domain Admins & Parthasarathy Dham & Securden Service Ac	7 Members) Administrator malingam partha	CN=Adm CN=Dom CN=Part	inistrator,CN=Users,DC= ain Admins,CN=Users,D nasarathy Dharmalingan	C=SECURDEN,DC=AWS,DC	-COM s,DC=SECURDEN,DC=A				

Change the Encryption Key Location

Every installation of Securden is protected with a unique encryption key. By default, this encryption key is located at <securden installation folder>/conf/securden.key for evaluation purposes. Securden doesn't allow the encryption key and the encrypted data to reside in the same location to ensure security. Hence, the key has to be moved outside the Securden installation folder.

Privileged Ad	count Manager		Q ∽ Search Accounts	8~							
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Admin > Change Er	cryption Key Location										
Change Enc	ryption Key Lo	ocation									
as <securden-in< b=""> server, the key sl Note: If you are</securden-in<>	stallation-Folder>\conf\ nould be accessible to th	securden.key . The k ne server. If you have ey in a shared drive,	ey has to be moved already moved the ensure that the fold	d to a new location of key to another locati	utside the Securi on, the current lo	den installation. After cation is depicted bel	r moving it, you need to ow. You may change it	o specify the new anytime below.	location to Securder	installation, by default, the encryption key is avai n in the field below. Whenever you start the Secu lible to the secondary too. The same applies if you	den
Encryption Key Locat C:\work\	on *										
Important Note:	If the encryption key is	not present in the lo	cation specified abo	ove, Securden server	will not start next	time.					
Test Save	Cancel										

When deploying the product to production, Securden enforces moving the key out of the installation folder. The encryption key is essential to start the Securden server. If the key is not present in the new location, Securden server won't start. After moving the key to some other secure location, you need to specify the new location as explained below:

To specify the new location,

1. Navigate to Admin >> Security >> Change Key location.

2. Specify the location.

3. Click **Test** to check whether the key is found in the specified location.

4. If the floating screen states "Securden encryption key not found in the path specified", check if the key is found in the new location.

5. If the encryption key was found in the specified location, A floating screen will appear containing a message stating **Encryption key found in the path specified**.

6. Click **Save**.

Note: If the server fails to start, you can view the current location of the encryption key by opening the Securden_key.location file using any text editor. This file is located at <Securden Installation folder>/conf/Securden_key.location. You need to have the encryption key in the location specified in this file for the Securden server to start.

IP Address Restriction

Securden gives you the option to control and restrict access to Securden Server based on the user's IP address. You can either enter specific IP addresses or an IP range that is allowed or denied. Users belonging to the locations or networks that fall only under allowed IP addresses or range will be able to access Securden.

Enable IP Restrictions

To Enable IP Restrictions, navigate to Admin >> Security >> IP Address Restrictions >> Enable IP Restrictions and move the toggle Enable IP Restrictions to green.

Privileged A	ccount Manager									Q ← Search Accounts	8.
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Admin > IP Addres	s Restrictions										
IP Address	Restrictions										
	access to Securden s able to access Securd						hat is allowed or deni	ed. Users belonging	g to the locations or n	etworks that fall only under allowed IP addresses	
Examples:											
Specific IP. 191	224.1.22										
IP Range: 224.1	.1.10:224.1.2.10										
CIDR notation:	192.168.1.30/24										
Important Note											
	while enabling IP restr access Securden. A w						ed to access Securde	n. On the other hand	d, when you 'restrict a	ccess' to certain IPs, users belonging to those IPs	
2. Accessing Se	ecurden web-interface i	n the host where the p	product is installed	will always be allow	ed. It cannot be res	tricted.					
3. The settings	will take effect only aft	er restarting Securder	PAM Service.								
nable IP Rest	rictions 💽										
You can choose entered entries		trict specific IP addre	sses by entering t	ne required values in	the field below. Yo	ou can edit the entrie	s anytime. In case, yo	u choose to chang	e the restriction from	'Allow' to 'Restrict' and vice-versa, the previously	

Here you choose either to allow access or to restrict access.

Enter one or multiple IP addresses. Each IP address can be entered in a new line. IP range should be separated by a colon (:).

Examples:

Specific IP: 191.224.1.22

IP Range: 224.1.1.10:224.1.2.10

CIDR notation: 192.168.1.30/24

Note:

• Exercise care while enabling IP restriction. When you allow access toc ertain IPs, users belonging to those IPs/ranges alone will be allowed to access Securden. On the other hand, when you restrict access to certain IPs, users belonging to those IPs won't be able to access Securden. A wrong selection here could lead to unintentionally restricting access to genuine users.

• Accessing the Securden web interface in the host where the product is installed will always be allowed. It cannot be restricted.

Finally, click "Save". The settings will take effect only after restarting Securden PAM Service.

Block Access through API, Extensions, Mobile Apps

Securden allows you to block and filter access to its server from extensions, API, and mobile applications. Once you block any such access, a connection could not be established with the Securden server from browser extension or APIs or mobile apps as per the setting below. This setting will take effect for all users, including the super admin globally. You can change this setting anytime as desired.

To block access, navigate to **Admin >> Security >> Block Access**.

Dashboard	Accounts	Folders	Users Groups	Audit Session	s Report	s Admin			
Admin > Block Acc	cess								
lock Acce	SS								
Manufactured server	oon block seess to Co	ounder converting the breeze	were estensions ADIs and maki	a anna. On an unu blaat, anu suab		and date the antablished a	with Consular annua for	- house estencion of ADIs of mobile	
			owser extensions, APIs, and mobil ding the super admin globally. You			could not be established	with Securden server fro	m browser extension or APIs or mobile	e <mark>apps a</mark> s p
						could not be established	with Securden server fro	m browser extension or APIs or mobile	e apps as p
		effect for all users, includi			is desired.	could not be established		m browser extension or APIs or mobile	e apps as p
		effect for all users, includi Brov Access th	ling the super admin globally. You	can change this setting anytime	ns desired. PIS ubled. Click to		• Apps wbile apps enabled.	m browser extension or APIs or mobile	e apps as p

You can block access through browser extensions, APIs, or mobile apps by moving the green toggle to red.

You can change this setting anytime as required

Section 15: Emergency Access Settings

Configure Emergency Access

Emergency access, as the name implies, is used in highly critical and urgent situations. For instance, imagine the scenario when an administrator who has access to an IT resource is away and your team requires immediate access to the device. The emergency access feature helps in this scenario to gain access in a hassle-free manner with a well-defined workflow.

How does emergency access work?

You can enable a designated list of users as 'Emergency Access Users' allowing them to access all passwords (work accounts) stored in Securden, breaking the usual access controls during emergency situations. When an emergency access requirement arises, any of the designated users will first declare emergency and get access after the predefined mandatory waiting period. In the meantime, all administrators will be notified of the situation.

Configuring emergency access

To configure emergency access, navigate to **Admin >> Emergency Access** >> **Configure Emergency Access**.

Privileged Account	Manager									Q∨ Sea	rch Accounts	8~	
Dashboard Acc	counts	Folders	Users	Groups	Audit	Sessions	Reports	Admin					
		Q Search											
		Automatic Approval Policies			E Syslog for SIEM			Application Server				^	
		Notifications			nt SAML SSO		че.						
		🗒 Event Notifications	3		📧 Ticketing Sys	tem	Hi	gh Availabilit	у				
		Password Expiration	on Notification					Database Backup)				
		$\mathcal{P}_{\mathbf{E}}$ Account Expiration	Notification		General		0=0	High Availability					
		🔏 Breached Passwor	ds Identification		Mail Server S	5	Passwords Backup (Encrypted HTML File)						
		Expired Password	Rotation		Proxy Server							- 5	
					Browser Exte	nsion	M	aintenance &	Upgrades				
	_	Emergency Acce	ess		Securden Ser	ver Connectivity	4	Product Upgrade	S				
		🐯 Configure Emerger	ncy Access		License		R	estricted Acce	ess Over the Inter	net			
								Certificate-based	Authentication			•	

In the GUI that opens, you can designate the users who should get the emergency access privilege. You can define the maximum time duration until which the user should have emergency access.

As an additional control, you can define a mandatory waiting period (in minutes) until the person should wait before gaining emergency access. All administrators will be notified when someone wants to gain emergency access.

Move the toggle **Enable Emergency Access** to turn on emergency access. You will see two options namely, **All users** and **Specific users**. As the name itself implies, **All users** option grants the emergency access privilege to all the users. On the other hand, if you want to grant the privilege only to certain specific users or groups of users, you need to choose the option **Specific users**.

V	Privileged Acc	ount Manager									Q ← Search Accounts	8~
	Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
	Admin > Configure Er	mergency Access										
	Emergency Access Configurations											
	who should get th	You can enable a designated list of users to access all passwords (work accounts) stored in Securden, breaking the usual access controls. This is to meet password access needs during certain emergencies. In this interface, you can designate the users who should get the emergency access privilege. You can define the maximum time duration until which the user should have emergency access. As an additional control, you can define a mandatory waiting period (in minutes) until the person should wait before gaining emergency access. All administrators will be notified when someone wants to gain emergency access.										
	Enable Emergeno	cy Access 🗾										
	Select the users who	can make use of emerge	ency access									
	All Users O Spe	ecific Users										
	Emergency access du	uration 10 minute	e(s)									
	Wait for min	nutes(s) after emergeno	y access is initiated.									
	Save Cance	21										

When you choose the **Specific users**, you need to select the users or groups from the list. You can define the maximum duration up to which a user can avail emergency access. Specify the duration in minutes. As a security best practice, to guard against any possible misuse of the provision, you can enforce a mandatory waiting period for anyone to gain access after **breaking the glass**. During this window, notifications will go to all administrators, who can revoke access if any suspicious motive is found. You can define the waiting time in minutes. After configuring these values, click **Save**.

The above steps complete the emergency access configuration. The configuration done by one administrator has to be approved by another administrator. The approval can be done from the same page in the GUI. When another administrator logs in, the link to approve or reject the request will be visible as shown below.

How to initiate emergency access?

When an emergency access requirement arises, the designated user(s) can initiate the access from **Admin >> Emergency Access >> Initiate Emergency Access**. In the GUI that opens, the user has to justify why emergency access is needed. As per the emergency access configuration, the user will get access.

Section 14: Disaster Recovery Settings

Database Backup

To ensure uninterrupted access to passwords even in the unlikely event of a disaster, you can take a backup of the entire database and store it in a secure location. If something goes wrong with the existing installation, you can do a quick recovery of data. Backup can be taken anytime on-demand and at periodic intervals by creating a scheduled task.

Configuring Backup

To configure database backup, navigate to **Admin >> High Availability >> Database Backup** section in the GUI. There are two options to choose from when scheduling a backup. You can choose to take a backup once whenever required or at periodic intervals.

If you want to take a backup instantly, you can click on **Backup Now**. If you choose **Take Backup Once**, follow the steps below:

1. Select the date and time when you want to take backup once.

2. If needed, change the backup destination from its default location by providing the destination folder path. When the backup file is to be stored in another machine, you can specify the network path to that

destination.

3. Specify the maximum number of backups to be retained in that

location. For example, if you specify this as 5, only the most recent 5 backup copies will be retained. Click **Save**

If you choose Take Backup Periodically', follow the steps below to create a scheduled task:

1. Choose the date and time of the first backup.

2. Thereafter, you can schedule backups on an hourly, daily, weekly, and monthly basis. Choose an option between 'Hours', 'Days', 'Weeks', and 'Months' from the drop-down menu. Specify the number of hours/days/weeks/months in the adjacent space.

3. If needed, change the backup destination from its default location by providing the destination folder path. When the backup file is to be stored in another machine, you can specify the network path to that destination.

4. Specify the maximum number of backups to be retained in that location. For example, if you specify this as 5, only the most recent 5 backup copies will be retained.

5. Click Save

Disabling the Database Backup

You can use the disable option to delete an already existing backup schedule along with its configurations.

Important Note: Every installation has a randomly generated, unique encryption key, using which sensitive data are encrypted and stored in the database. By default, the encryption key is located at <Securden-Installation-Folder>/conf/securden.key. Securden doesn't allow the encryption key and encrypted data to reside together. It has to be moved to some other location. When you start the Securden server, the key should be available in the path specified every time. Otherwise, the server won't start, and you won't be able to access the passwords.

This encryption key is needed to restore the data from the backup copy. If you don't have the encryption key, data cannot be restored. Ensure that you have a copy of the encryption key for disaster recovery.

Steps for Data Recovery

In the event of a disaster, you can restore the data and the configurations from a backup file.

Important Note: The backup data is encrypted using the same encryption key as the original. For data restoration, Securden requires access to the encryption key.

Ensure the key is available at the location specified in the current(new) installation of Securden. By default, the encryption key is located at <Securden-Installation-Folder>/conf/securden.key.

You can also identify the current location of the encryption key by navigating to **Admin >> Security >> Change encryption key location**, and hovering the pointer over the "i" icon (or) Open the file named Securden_key.location using a text editor. This file can be found at <Securden installation folder>/conf/Securden_key.location

To Recover the backed-up data, follow the steps below

- Install Securden in a new machine without disturbing the existing installation.
- Stop the Securden server.
- ➤ Open services.msc
- ➤ Navigate to Securden PAM Service.
- ➤ Stop the service.
- Open Command Prompt by clicking on 'Run as Administrator'.
- Navigate to <Securden-Installation-Folder>/bin.
- In the cmd window, use the following command.

- > RestoreDatabase.exe <enter the full path of the backup file>
- Example: RestoreDatabase.exe

C:\ProgramFiles\Securden\PAM\exports\PostgreSQL_Backups\Securden_pos tgresql_db_backup_2019-05-22-11-48-22.zip

• Start Securden PAM service from services.msc. (You can safely

ignore the other service named Securden Web Service, which is

automatically taken care of).

Backup of Passwords as an Encrypted HTML File

As an additional backup option, super administrators can take a backup of all passwords in the form of an encrypted HTML file. These HTML files can be opened using a web browser. A passphrase has to be provided at the time of configuring the schedule. This passphrase will be used as the encryption key. Whenever the file has to be opened, the passphrase has to be supplied. The passphrase is not stored anywhere.

The encrypted HTML file contains work accounts only. The personal accounts of the users cannot be backed up. As mentioned above, only super administrators can create the schedule. Administrators can view the schedules created by a super administrator.

To configure backup of passwords as an encrypted HTML file, navigate to **Admin >> High Availability >> Password Backup** (Encrypted HTML file). You will see options to configure backup once or periodically.

You can also specify the location where the encrypted HTML file should be stored and in the case of periodic backup, how many copies to be retained. If you specify 5, the most recent five backfiles will be retained.

Section 16: High Availability

[High Availability configuration steps are also available as separate guides for the default PostgreSQL as the backend database and optional MS SQL serveras the backend separately. You may refer to them if needed.]

Configure High Availability

Securden comes with High availability architecture to ensure uninterrupted and a reliable supply of credentials. Configuring High Availability (with PostgreSQL database as the backend) To configure high availability in Securden Unified PAM, 2 or more servers have to be deployed.

- 1. Primary server with bundled PostgreSQL database.
- 2. One secondary standby server with bundled PostgreSQL database.
- 3. One more application server without a database (optional).

Securden uses an active-active approach to high availability support. A primary server and a secondary server will be active at the same time and will have their own databases. In the event of a primary server going down, users can connect to the secondary standby server. Additionally, any number of application servers can be deployed for load distribution.

Two types of secondary servers can be deployed and both have different use cases. You may choose one of the options below:

Case 1: Automatic failover with active standby. When the secondary server is deployed as a standby server, the database will be replicated and periodically synchronized with the primary server database. You will be able to enable automatic failover only when one of the secondary servers deployed is of this type. Only one such server can be deployed and it has to be deployed in the same subnet as the primary server for the automatic failover to work.

Case 2: Load distribution using application servers without database. You can also deploy a secondary server as an application server without a database. The secondary server will only have the securden application installed and not a database. Since there is no separate database other than the one in the primary server, automatic failover will not be possible. This type of secondary server is useful when you need to deploy more than one secondary server. It is mainly used for load distribution by ensuring no single server bears too much demand and reduces application response time for users.

Notes

1. For automatic failover to work, the database port (5858) of the standby server must be accessible from the primary application server. Also, ensure that the standby server is in the same subnet as that of the primary server.

2. The primary and secondary servers must be running the same version of Securden. Navigate to User Details (User icon at the top right corner) >> About >> Version to check the current product version. Contact Securden Support if you need any assistance.

Pre-requisites: A primary server with Securden Unified PAM up and running and using the bundled PostgreSQL database. Refer to ourinstallation guide to install the application.

Summary of Steps

Step 1: Setting up a secondary server

Step 2: Configuring High Availability in the primary server.

Step 3: Downloading and Transferring the high availability package.

Step 4: Configuring the Secondary server.

Step 5: Verifying the high availability setup

Step 1: Setting up a Secondary Server

1. Identify a machine that would act as a secondary server. Consider the current Securden Unified PAM installation as the primary server.

2. Install Securden Unified PAM on the chosen machine. Refer to our installation guide if you need help with the installation process.

Note: Make sure both the machines are running the same version of Securden Unified PAM.

Navigate to User Details (On the top right corner) >> About >> Versionto check for the current product version. Contact Securden Support for any Assistance.

Step 2: Configuring HA in the primary server

1. Navigate to Admin>> High Availability in the GUI of Securden Unified PAM in the primary server.

2. Click the 'Configure Secondary Application Server' button and enter the following details regarding the secondary server.

Server Identifier - Provide a name that helps identify the secondary application server.

Address - hostname/ IP address of the machine where the secondary server instance has been installed.

Secondary Type - Two types of secondary servers can be deployed: Application server without database and Standby Server. Select **Standby** and click **Save**.

STEP 3: Downloading and deploying the high availability package

1. Once the details of the secondary server have been saved, a pop-up with the title 'Download and Deploy the High Availability Package' will appear in which you will have an option to download the package as a zip file.

You can also download the package from the main High Availability GUI too. Navigate to **Admin >> High Availability >> High Availability**. In this GUI you will have the download option right next to the secondary server in the server list.

2. Transfer the downloaded zip file to the secondary server.

STEP 4: Configuring the secondary server

1. Stop the server if it is running. Open windows service manager (run services.msc) and stop Securden PAM Service.

2. Put the High availability package under the "<Securden Installation folder(Secondary)>/bin" directory.

3. Open Command Prompt with administrator privileges and navigate to the

"< Securden Installation folder(Secondary)>/bin" directory.

Then execute the following command: ApplyHAPackage.exe-<Secondary server Identifier>.zip

4. Securden secondary server shares the same encryption key as the

primary server.Ensure the location of securden.key as mentioned in "<Securdensecondary installation folder>/conf/securden_key.location" is

accessible from the secondary server. (You can open securden_key.location with any text editor)

5. Start the service again on the secondary server. To start the service, open Windows service manager (run services.msc) and start Securden PAM service.

Securden High availability setup is now ready.

STEP 5: Verifying High availability

1. Navigate to admin>>High availability in the GUI of the primary server.

2. Check the status column for the secondary server. If the status shows "Running", It means high availability is available working properly.

Deploying additional secondary application servers without DB (Optional)

You can deploy any number of secondary application servers without database. You need to deploy additional servers only if you need to distribute the load between multiple servers. To deploy additional secondary application servers without database, follow Step 1 through Step 5 again and except for "Standby" as secondary type in Step 2, select "App server without DB"

Troubleshooting Tip

Status column for the secondary shows "Data sync in progress" for a long time or **Data replication to standby stopped.**

Solution

This issue can occur when the database port (5858) of the primary server is not accessible from the secondary standby server or vice-versa. Run the following Telnet commands to verify these connections:

In secondary server: Telnet <primary server address> 5858

In primary server: Telnet <secondary server address> 5858

If these two connections are not working, you should be able to resolve it by creating an inbound firewall rule to allow access to the database port in both primary and secondary standby servers.

To add an inbound rule,

- 1. Open "Windows Defender Firewall with Advanced security"
- 2. Go to Inbound Rules and select New Rule. Add the following rule.
- 3. Rule Type: Port
- 4. Protocols and Port: TCP, 5858
- 5. Action: Allow the connection
- 6. Profile: Domain, Private, Public
- 7. Name(Example): TCP5858
- 8. Click Finish

Configuring High availability with MS SQL Server as the Backend Database

To configure High availability in Securden Unified PAM, you will need two or more application servers and a database server with MS SQL server installed. Securden enables the configuration of multiple application servers for high availability. You can configure any number of application servers as a measure to ensure high availability. In the event of the primary server going down, Users can connect to a secondary server. To provide high availability for the Database, you need to set up your MS SQL server database with SQL clustering or AlwaysOn High availability groups.

Prerequisites: A primary server with Securden Unified PAM and MS SQL database should be installed and kept running. Refer to our Installation guide to install the application. You can refer to the **Optional: Change Backend database to MS SQL server** section in the document to set up an MS SQL Server as the backend database.

Summary of Steps

Step 1 Setting up a secondary server

Step 2 Configuring High Availability in the primary server.

Step 3 Downloading and Transferring the high availability package.

Step 4 Configuring the Secondary server.

Step 5 Verifying the high availability setup

STEP 1: Setting up a Secondary Server

1. Identify a machine that would act as a secondary server. Consider the current Securden Unified PAM installation as the primary server.

2. Install Securden Unified PAM on the chosen machine. Refer to the installation guide if you need help with the installation process.

Note: Make sure both the machines are running the same version of Securden Unified PAM. Navigate to User Details (On the top right corner) >> About

>> Version to check for the current product version. Contact Securden

Support for any assistance.

STEP 2: Configuring HA in the Primary Server

1. Navigate to Admin>> High Availability in the GUI of Securden Unified PAM in the primary server.

2. Click the 'Configure Secondary Application Server' button and enter the following details regarding the secondary server.

a. Server Identifier - Provide a name that helps identify the secondary application server.

b. Address - hostname/ IP address of the machine where the

secondary server instance has been installed.

STEP 3: Downloading and Transferring the Download Package

1. Once the details of the secondary server have been saved, a pop-up with the title **Download and Deploy the High Availability Package** will appear in which you will have an option to download the package as a zip file.

You can also download the package from the main High Availability GUI too. Navigate to Admin>>High Availability>> High availability. In this GUI you will have the download option right next

to the secondary server in the server list.

2. Transfer the downloaded zip file to the secondary server.

STEP 4: Configuring the secondary server

1. Stop the server if it is running. Open windows service manager (run services.msc) and stop Securden PAM Service.

2. Put the High availability package under the

"<Securden Installation folder(Secondary)>/bin" directory.

3. Open Command Prompt with administrator privileges and navigate to

the"< Securden Installation folder(Secondary)>/bin" directory.

Then execute the following command: ApplyHAPackage.exe-<Secondary server Identifier>.zip

4. Securden secondary server shares the same encryption key as the primary server.

Ensure the location of securden.key as mentioned in "<Securden

secondary installation folder>/conf/securden_key.location" is

accessible from the secondary server. (You can open

securden_key.location with any text editor)

5. Start the service again on the secondary server. To start the service, open Windows service manager (run services.msc) and start Securden PAM service. Securden High availability setup is now ready.

STEP 5: Verifying High availability

1. Navigate to admin>>High availability in the GUI of the primary server.

2. Check the status column for the secondary server. If the status shows "Running", It means high availability is available working properly.

Troubleshooting Tips

Issue: The secondary server fails to start after startup.

Solution 1:

Make sure both the machines are running the same version of Securden Unified PAM. Navigate to User Details (On the top right corner) >> About >> Version to check for the current product version. Contact Securden Support for any Assistance.

Solution 2:

Verify the location of the encryption key in the secondary server. Whenever Securden is run, the key should be accessible to the server. Otherwise, the server won't start. Securden secondary server shares the same encryption key as the primary server. Ensure the location of securden.key as mentioned in "<Securden secondary installation folder>/conf/securden_key.location" is accessible from the secondary server. (You can open securden_key.location with any text editor)

Solution 3:

Database port (1433) of MS SQL and web server port (5959) should be accessible from the secondary server. Run the following telnet commands in your secondary server to verify the connections

Telnet <database server address> 1433

Telnet <primary server address> 5959

If any of the ports are inaccessible, you can resolve it by creating an inbound firewall rule for that particular port in the primary server or the database server.

To add an inbound rule,

- 1. Open "Windows Defender Firewall with Advanced security"
- 2. Go to Inbound Rules and select New Rule. Add the following rule.
- 3. Rule Type: Port
- 4. Protocols and Port: TCP, <Port Number>
- 5. Action: Allow the connection
- 6. Profile: Domain, Private, Public
- 7. Name(Example): TCP5959
- 8. Click Finish

Section 17: Distributed Architecture

Remote Distributors

To manage networks distributed across multiple locations, you can make use of the remote distributors in Securden. The remote distributors are Application servers for Windows and Unix Connectors for Linux.

Configure Application Servers for Distributed Networks

As part of product deployment, Securden offers the flexibility to deploy multiple application servers to take care of certain specific needs such as IT infrastructure spread across multiple networks. If your IT assets/privileged accounts are distributed across multiple networks and if you want to manage all those devices using Securden, you can deploy Securden application servers in each of those networks and also associate each application server with a remote gateway. Application servers deployment is a three-step process first, you need to add the required application servers, then associate each application server with a remote gateway, and finally associate the IT assets in each network with the gateway.

Adding an application server

Prerequisite: Identify the Windows machine(s) in which you will be deploying the Securden Application Server(s). Typically, you would need machines with the same specifications as that of Securden installation.

Step 1: Enter details about the application server

In this step, you will simply be creating an identifier for each of the application servers (also called secondary servers) you want to add.

To enter the details, Navigate to **Admin** >> **Remote Distributors** >> **Application Server** and click the button **Create Application Server**. In the GUI that opens, enter the following details:

Server identifier: Server identifier is just a name that helps identify the specific application server. The machines where you install application servers should be able to access the database running with the Securden primary server.

Address: You need to specify the hostname/IP address of the machine where the application server instance has been installed. Whenever you add or change the IP address or hostname of the machines where you have installed application servers, you need to restart the Securden

primary server. Ensure that the standby server is in the same subnet as that of the primary server for failover to work.

When you click **Save**, you will see a pop-up, which will provide you the link to download the application server package as a .zip file. Follow the instructions on that page before downloading the zip file. You need to restart the Securden primary server before downloading the zip. (You will see the title 'download high availability package'. It represents the application server package download).

Step 2: Deploy application server package on the designated Machine

You need to deploy the zip file you have downloaded in step 1 above on the machine which has been identified for the purpose of deploying the application Server.

Pre-requisites:

- The application server should be able to access the port of the primary server (default 5959) through the primary server's address you have specified on server settings.
- The application server should be running the same product version of Securden primary server. Contact Securden support if you need any assistance.

Carry out the following steps in the machine where you have installed the application server:

• Stop the Securden PAM Service

- Unzip the application server package (high availability package downloaded above) under **<Securden AppServer installation folder>/bin** directory.
- Open a command prompt with Administrator privileges and navigate to **<Securden AppServer installation folder>/bin** directory. Then execute the following command: **ApplyHAPackage.exe HA-<name>.zip**

• Securden AppServer server shares the same encryption key as that of the Primary installation. Ensure the location of securden.key as mentioned in "<Securden Secondary installation folder>/conf/securden_key.location" is accessible from the secondary Machine.

• Start the service. Securden high availability setup is now ready.

Step 3: Associate application server with a remote gateway

After configuring the application server, you need to associate it with a remote gateway. This can be done from **Admin >> Remote Sessions and Recordings >> Remote Gateway.**

In the GUI that opens, select the required remote gateway and then select **Associate Application Server** and click **Configure**. In that page, the list of all available application servers would be displayed. You need to select this application server and click **Save**.

After completing this association, you need to associate the devices and/or domains that you want to manage through this application server. Typically, this is an association between Application Servers \rightarrow Remote Gateway \rightarrow IT Infrastructure to be Managed. This association is to be done through step 3 in the Remote Gateway configuration page.

Once this is done, the application server would be fully ready to manage the respective network.

Unix Connector

You can associate this Unix connector with the required devices. Once you associate, all remote connections and remote operations (including session initiation, session recording, remote password resets and password verification) to the devices associated will be initiated through this connector.

Add a Unix Connector

Navigate to **Admin >> Remote Distributors >> Unix Connector** to add and manage Unix connectors.

Privileged Account I	Manager						Q ← Search Accounts	8~
Dashboard Acco	ounts Folders	Users Groups	Audit	Sessions	Reports	Admin		
	Q Search							
	Privilege Elevation &	Delegation	o Factor Authentication		😫 Session	Recording		*
	Applications & Command	ds 💬 Ema	ail to SMS Gateway			Remote Launcher		
	Control Policies	👌 Duc	Security		😤 Windows	Session Recorder		
	Remove Admin Rights		DIUS Server Settings		🔗 Custom	Application Launcher		
	🧓 Securden Agents	🕮 Sma	art Card Authentication					- 1
	🙎 Technician Access Polici		ations		Remote D	istributors		- 1
	Notifications		ive Directory Domains		Applicati			
	Event Notifications	E Sys	log for SIEM					- 8
	Password Expiration Noti	ification 🛛 🝖 SAI	ML SSO		High Avai	lability		
	Account Expiration Notifi	ication 😇 Tick	keting System		Database	e Backup		
	Draashad Daaawarda Ida	atification			R-R Llich Aug	ilability		*

In the GUI that opens, click on Add.

Dasl	hboard Accounts	Folders	Users Gro	oups	Audit	Sessions	Reports	Admin			
]	Unix Connector	Add More - Q	Associate Dev	ices Rep	ort						
]	DC Long Island 24 hour connection	1 🗇	Remote Gatway	Name	DC Long Island						
	Dubai Data Center Yet to give a description		Account Address		Linux_serveros						
	Prolong 24 hour connection								ections and remote operations (ir d will be initiated through this con		1
			QCI	Associate	e Devices Disso	ciate Devices			Showing 1 to	0 1 of 1 25	\sim
			Device ‡				Device type			Action	
			172.31.6	5.33			Cisco IOS			۵	

To add a new Unix Connector, you need to specify the following details:

637 Securden Unified PAM

Privileged Ac	count Manager								Q ← Search Accounts	2~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
Add Unix Co	onnector									
	s being designated as a u server has not yet been a					u can only choose fro	m the already available	9		
Unix Connector Name * Lin32										
Description										_
IP Address 54.174.146.104			~							_
Remote Login Cre										
Select account from o	levice		~							
Save Cano	el									*

Unix Connector Name: This name is used to uniquely identify the connector added in Securden.

Description: (Optional) You can choose to add a brief description of the connector.

IP Address: Specify the IP address of the server/machine that will act as the Unix Connector.

Remote Login Credentials: Supply the remote login credentials to authenticate into the server/machine that acts as the Unix Connector.

Once added, click **Save** and the connector will be added to the list.

Section 18: Reports

Securden Unified PAM provides comprehensive reports for detailed insights on password management and user activities. The easy-to-understand graphs and tables display activity status and summaries related to password management.

Click the **Reports** tab and select your preferred report to proceed. The reports are broadly classified into four categories namely:

- 1. Standard Reports
- 2. Concise Reports
- 3. Password Security Analysis
- 4. Exported Reports

Standard Reports

Insights related to accounts stored

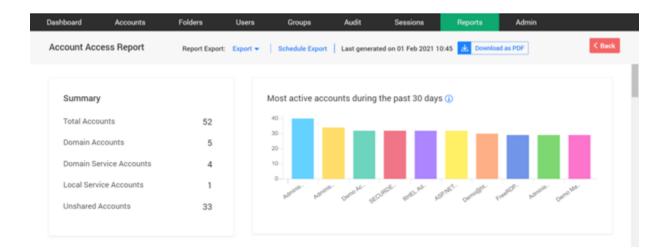
Account Access Report

To access this report, navigate to **Reports** >> **Standard Reports** >> **Account Access**. The account access report shows `**who**' are all linked to a

particular account along with **'how**' many of them share that account. The various access entitlements given to the shared users are also displayed.

In the Summary, the number of accounts are displayed categorically and on the other side the bar-graph further highlights the most active accounts during a month. The data shown in the graph includes password retrievals, remote connections launched and password auto-fills on websites.

When you click on any bar on the graph, it specifies the account address, account title and their level of usage.

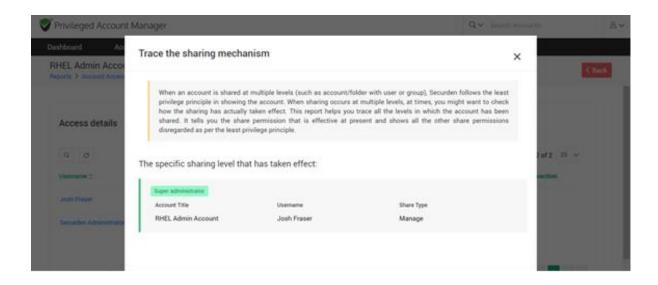


Trace accounts/folders shared with users or groups

From the Access Snapshot, you get the list of accounts present in the product. Once you click on a particular account, you get the details of users who have access for that account. When an account is shared at multiple levels (such as account/folder with user or group), Securden follows the least privilege principle in showing the account.

When sharing occurs at multiple levels, at times, you might want to check how the sharing has actually taken effect - how a user is getting access to an account. Account Access Report helps you trace all the levels in which the account has been shared. It tells you the share permission that is effective at present and shows all the other share permissions disregarded as per the least privilege principle.

You may use **Reports** >> **Account Access Report** for this purpose. Based on this finding, you would be able to take corrective action in case of any deviations.



Access Snapshot

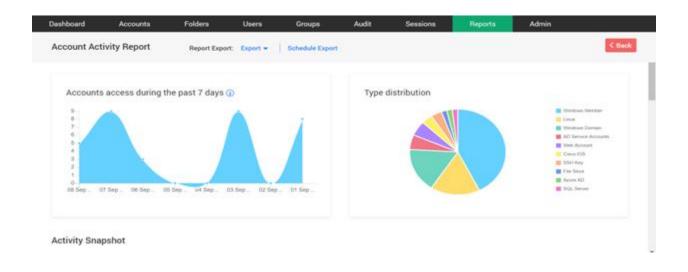
When you click on the **Account title**, the page navigates to the **Access details** screen. The access details screen shows the modes of privileges assigned to the user; **Manage, Modify, View and Open Connection**.

Privileged Ac	coone manage					_		Search Accounts	٤
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin	
Account Acces	ss Report	Report Export:	Export +	Schedule Export	Last generated	on 01 Feb 2021 10:4	5 🛃 Downlo	id as PDF	K Back
Access Snaps	hot								
9 0 III								Showing 1 to 25 of 56	25 🗸
Account Title 0	Account	t Name	Account Ac	idress	Account Type	Notes		Tags	
Administrator	Admini	strator	sec-build-1	.securden.aws.com	Windows Member				
Administrator	Admini	strator	SEC-2K12-	1.SECURDEN.AWS.C.	. Windows Member				
Administrator	Admini	strator	sec-test-29	19-1.SECURDEN.AW.	. Windows Member				
Administrator	Admini	strator	sec-demo:	2k16.SECURDEN.AW.	. Windows Member				

Account Activity Report

To access this report, navigate to **Reports** >> **Standard Reports** >> **Account Activity**. The report indicates about the activities performed on any particular account. The screen displays a graph that shows account access during the past week and a piechart that specifies the type distribution. The type distribution throws light upon the number of activities performed on the account.

The Activity Snapshot, through the search filter, enables you to view the string of activities performed on the accounts in a brief manner.



Once you click on an account, you will get a detailed report on the usage, access, and activities related to that account. The screen shows Password usage statistics and Account usage statistics from which you can see details about password retrievals, remote connections launched, and password auto-fills on websites. Account Activity displays the details of users who have carried out activities on the account, along with the reasons involved.

	Baldana		0	Departs to be a second		
ashboard Accounts	Folders User			Reports Admin		_
ccount Activity Report	Report Export: Export -	Schedule Export Last generate	d on 08 Sep 2022 08:54 👱	Download as PDF 🛛 🖶 Preview PDF		< Back
ctivity Snapshot						
d G III					Showing 1 to 25 of 136	25 🗸
ccount Title	Account Name ‡	Account Address	Account Type	Notes	Tags	
ECURDEN-AWS\vms_test_no_pass	vms_test_no_pass	172.31.1.11	Windows Domain			
ms_test_group_user	vms_test_group_user	ip-172-31-94-234.ec2.internal	Linux			
ECURDEN-AWS\vms_test_account	vms_test_account	172.31.1.11	Windows Domain			
ECURDEN-AWS\VMS_Disabled_User	r VMS_Disabled_User	172.31.1.11	Windows Domain			
ECURDEN-AWS\user3	user3	172.31.1.11	Windows Domain			
ECURDEN-AWS\user2	user2	172.31.1.11	Windows Domain			
ECURDEN-AWS\user1	user1	172.31.1.11	Windows Domain			
buntu	ubuntu	54.152.7.121	Linux			
inux Demo						
Privileged Account Manag	-	54.174.146.104	Linux	Decords Admin	Q ✓ Search Accounts	
Privileged Account Manag ashboard Accounts ECURDEN-AWS\vms_tes	jer Folders Use t_no_pass			Reports Admin	Q ~ Search Accounts	< Bat
Privileged Account Manag ashboard Accounts ECURDEN-AWS\vms_tes port > Account Activity Report > St	jer Folders Use t_no_pass CURDEN-AWS\vms_test_no_pass			Reports Admin	Q ← Search Accounts	< Bac
Privileged Account Manag ashboard Accounts ECURDEN-AWS\vms_tes port > Account Activity Report > St Details on the usage, access and a	Folders Use Lno_pass CURDEN AVSIVMS_test_no_pass activities related to this account an	ers Groups Audi				< Bac
Privileged Account Manag ashboard Accounts ECURDEN-AWS\vms_tes port > Account Activity Report > St	Folders Use Lno_pass CURDEN AVSIVMS_test_no_pass activities related to this account an	ers Groups Audi		Reports Admin Account usage statistics		
Privileged Account Manag ashboard Accounts ECURDEN-AWS\vms_tes port > Account Activity Report > St Details on the usage, access and Password usage statistic	Folders Use Lno_pass CURDEN AVSIVMS_test_no_pass activities related to this account an	ers Groups Audi	it Sessions		©	
Privileged Account Manag ashboard Accounts ECURDEN-AWS\vms_tes port > Account Activity Report > st Details on the usage, access and Password usage statistic	rer Folders Use t_no_pass COURDEN-AWSYms_test_no_pass activities related to this account ar s ()	ers Groups Audi	it Sessions		©	
Privileged Account Manag ashboard Accounts ECURDEN-AWS\vms_tes port > Account Activity Report > st Details on the usage, access and Password usage statistic	rer Folders Use t_no_pass COURDEN-AWSYms_test_no_pass activities related to this account ar s ()	ers Groups Audi	it Sessions			nenatulator

Password Compliance Report

To access this report, navigate to **Reports** >> **Standard Reports** >> **Password Compliance**.

The passwords that do not comply with the IT policy of the organization are reported. Securden aids in checking the passwords of the account with the

Q (C) III

respective password policies and represents the compliance status in the report. Accounts which are excluded from any policy are not included in the report.

The report showcases the summary which includes the number of passwords in the three categories namely, **Total Passwords, Compliant Passwords, and Non-Compliant Passwords.**

The bar graphs and pie charts show us the comparison between Compliant and Non-compliant passwords, Users and Non-compliant passwords respectively. The Non-compliance analysis further lists the policies which are deviated in the password generated. The search filter enables users to locate the accounts whose passwords violated the complexity requirements. The complexity requirements that were not satisfied by the account are displayed in the reason column.

ashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
assword Co	ompliance Report	Repor	Export: Export -	Schedule Expo	ort					< Back
Total Passv	vords		127	Complian	t Passwords		69	Non-Complia	ant Passwords	58
Compliant	vs Non-compliant	passwords		Users vs	. Non-complia	ant passwords		Non-Comp	liance Analysis	
				60	_			Minimum le	ngth violation	45
				40				Password co	ontaining username	36
				30— 20—				Inadequate	complexity	44
				10—				Presence of	denied characters	0
	Compliant Passwords	on-Compliant Passwords		0Se	curde John	ny Ralph L	Balasub	Presence of	denied words	0
								Not starting	with an alphabet	4

Showing 1 to 58 of 58 100 ∨

The expiration dates can be noted for the accounts from the Compliant passwords table.

Privileged Account Ma	inager				$\mathbf{Q} \checkmark$ Search Accounts
Dashboard Accour	nts Folders	Users Groups	Audit Sessions	Reports Admin	
Password Compliance	Report Report Ex	port: Export - Schedule Export			< Back
Accounts whose pass	words violate complexit	y requirements			
d G III					Showing 1 to 58 of 58 $100 \vee$
Account Title 🗄	Account Address	Account Type	Owner	Notes	Reason
Administrator	sec-build-1.securden.aws	.com Windows Member	Securden Administrator		⁽)
Capital Email Marketing	http://mailchimpanzee.co	om/ Web Account	Securden Administrator		Û
demo-unified-pam.securden.cor	m - a https://demo-unified-pan	n.securden Web Account	Securden Administrator		⁽)
Demo Account	10.0.0.60	Windows Domain	Securden Administrator		⁽)
FB2	https://facebook.com	Web Account	Ralph Lauren		⁽)
Guide account		Web Account	Securden Administrator		Ũ
hey		Social Security Number	Securden Administrator		⁽)
hey		Password Only	Securden Administrator		⁽)
Leading Customers Sales	https://www.leadcapter.c	om/ Demo Type	Securden Administrator		0

Password Expiry Report

To access this report, navigate to **Reports >> Standard Reports >> Password Expiry.**

Securden checks the passwords of your accounts against the respective password age set through policies and depicts the expiry status in this report. Accounts not linked to any policy are not included in this report.

The graph in the GUI gives the update on passwords expiring in seven days. The three sets of tables, **Expired Passwords**, **Passwords that will expire** in seven days, Passwords set never to expire give information about account details along with expiration dates and notes if any.

Privileged Account N	vanager								Q ✓ Search Accounts	
ashboard Acco	ounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
assword Expiration	Report	Report Export	Export 👻 📔	Schedule Export	t					< Bac
Securden checks the pass	words of your a	ccounts against the r	espective passw	ord age set throug	gh policies and dep	icts the expiry status	n this report. Acco	ounts not linked to any policy	are not included in this report.	
Summary				Passwo	rds Expiring in	7 Days				
Total passwords			127	1						
Expired passwords			26							
Passwords set never	to expire		98							
Passwords expiring ir	n 7 days		0	0	11 Jul	12 Jul 15	Jul	4 Jul 15 Jul	16 Jul 17 Jul	
united Decouverde										
xpired Passwords									Showing 1 to 25 of 26	25 🗸
Q C 🖩									snowing 1 to 25 of 26	25 V

Analysis of user access and activities in Securden

User Access Report

To access this report, navigate to **Reports** >> **Standard Reports** >> **User Access**. The **User Access Report** provides you organization-wide information on the list of access entitlements for a specific user. You can select any user and view the information. The user access report is the inverse version of Account Access reports.

Privileged Account Mana	-					
ashboard Accounts		Jsers Groups Audit	Sessions Report			
Iser Access Report	Report Export: Export -	Schedule Export Last generated on 08 M	Mar 2021 07:25 👱 Download as PDF	F Review PDF		< Back
This report depicts the list of all	accounts a particular user has ac	ccess to. Click the respective username in the tab	ble below to view the access details.			
Summary		Role distribution		Users vs. Account O)wnership	
All users	62		User Account Manager	150		
Local Users	23		Auditor Super Administrator	100		
Active Directory Users	34		Administrator Demo Role Special Agent	50-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	and	/
Disabled Users	2			80 kr 80 2.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
		Role *		Fmail	Showing 1 to 50 of 64	50 🗸
Privileged Account Manashboard Accounts	-	Role * Users Groups Audit	Sessions Rep I Mar 2021 07:25 🐱 Download as P	orts Admin	Showing 1 to 50 of 64	
Privileged Account Man	Folders	Users Groups Audit		orts Admin		
Privileged Account Man. ashboard Accounts Jser Access Report access Snapshot	Folders	Users Groups Audit		orts Admin		< Bac
Privileged Account Man. ashboard Accounts Jser Access Report access Snapshot	Folders	Users Groups Audit		orts Admin	Q ✓ Search Accounts	< Bac
Privileged Account Manashboard Accounts User Access Report Access Snapshot	Folders	Users Groups Audit Schedule Export Last generated on 08		orts Admin	Q ✓ Search Accounts	< Bac
Privileged Account Man. ashboard Accounts Iser Access Report Access Snapshot	Folders	Users Groups Audit Schedule Export Last generated on 08 Role ::=		orts Admin DF Review PDF	Q V Search Accounts Showing 1 to 50 of 64	< Bac
Privileged Account Man. ashboard Accounts User Access Report Access Snapshot Access Snapshot Access Snapshot Access Snapshot Access Snapshot	Folders	Users Groups Audit Schedule Export Last generated on 08 Role : Account Manager		orts Admin DF G Preview PDF Email duncan@securden.com	Q V Search Accounts Showing 1 to 50 of 64	< Bac
Privileged Account Mana ashbaaid Accounts Iser Access Report Access Snapshot Access Snapshot Access	Folders	Users Groups Audit Schedule Export Last generated on 08 Role Account Manager Account Manager		orts Admin OF Preview PDF Email duncan@securden.com shyamsenthil9925&@gmail.cc	Q V Search Accounts	< Bac
Privileged Account Mana ashboard Accounts Jser Access Report access Snapshot aername uncan Hume imothy accuden Administrator	Folders	Users Groups Audit Schedule Export Last generated on 08 Role Account Manager Account Manager Administrator		orts Admin DF Preview PDF Email duncan@securden.com shyamsenthil9925@gmail.cc localadmin@securden.com	Q V Search Accounts Showing 1 to 50 of 64	< Bac
Privileged Account Man. ashboard Accounts User Access Report Access Snapshot Access Snapshot Access Snapshot Access Snapshot Access Acc	Folders	Users Groups Audit Schedule Export Last generated on 08 Role Account Manager Account Manager Administrator Administrator		otts Admin DF C Preview PDF C C P	Q V Search Accounts Showing 1 to 50 of 64	< Bac
Privileged Account Mana ashboard Accounts Jser Access Report Access Snapshot Access Access Acce	Folders	Users Groups Audit Schedule Export Last generated on 08 Role ± Account Manager Account Manager Account Manager Administrator Administrator Administrator Administrator		otts Admin DF Preview PDF Email duncan@securden.com shyamsenthil9925@gmail.cc localadmin@securden.com vito.canale@ofgem.gov.uk michele.tammaro@ofgem.gov	Q V Search Accounts Showing 1 to 50 of 64	< Bac

How is the user getting access to an account?

When an account is shared at multiple levels (such as account/folder with user or group), Securden follows the least privilege principle in showing the account. When sharing occurs at multiple levels, at times, you might want to check how the sharing has actually taken effect - how a user is getting access to an account.

You may use **Reports** >> **User Access Report** for this purpose. Under the **Access Snapshot**, you get the details of users along with the accounts they have access to. Once you click on a username, you will be directed to a page that shows account usage statistics, and access details of that user.

If you are taking a User Access Report, click the name of the user (listed under Access Snapshot) who has access to an account you want to verify. Then click the required account name under Access Details

Rollogal Accounts	6-11		0	A	0	D	11-5-		
Dashboard Accounts Securden Administrator Report > User Access Report > Securden Adm	Folders	Users	Groups	Audit	Sessions	Reports	Admin		< Back
Summary Accounts owned by this user Accounts shared by this user Accounts not shared by this user Accounts shared with this user	113 43 70 2			atistics (j			Most Ac	ccessed Accounts ()	
Personal accounts owned by this u	ser 1		' 11 Jul ' 10 Jul.		ut ' 07 Jut ' 06 Ju	⁰ 05 Jul		Showing 1 to 25 of 115 25 \	~
			Manage		Modify		View	Open Connection	

You will see a pop-up that shows **Trace the sharing mechanism**. It shows details regarding the account's access. Based on this finding, you would be able to take corrective action in case of any discrepancy.

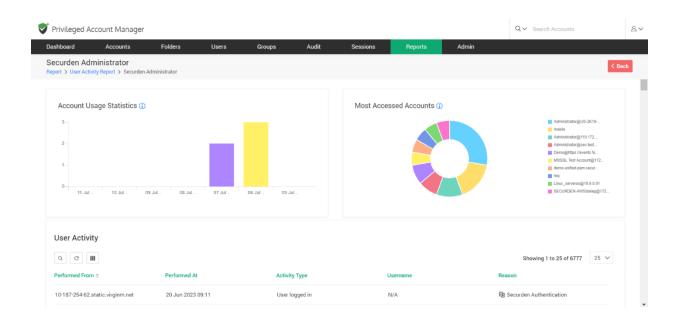
Privileged Account Ma	anager						Q ← Search Accounts	٤~
Dashboard Accou Securden Administrat		Trace the sharing	mechanism			×		< Back
Report > User Access Report >	Securden Administro Account	least privilege principle check how the sharing been shared. It tells you	e in showing the account. W has actually taken effect.	When sharing occurs at m This report helps you tra	ith user or group), Securden follov ultiple levels, at times, you might w ce all the levels in which the accou nd shows all the other share permis	ant to nt has	Showing 1 to 25 of 115 Open Connection	25 V
Administrator	110.172.187.17	The specific sharing lev	vel that has taken eff	ect:		_	~	
Administrator	sec-build-1.sect	Account owner				- 1	~	
Administrator	sec-demo-2k16.	Account Title	Username		Share Type		~	
Administrator	sec-test-2k19-1	🔍 Administrator	8 Securd	den Administrator	Manage		~	
Administrator	SEC-TEST-2K19	This account has been	shared at the followi	ng levels too. These	e levels have been disregard	ed:	~	
Administrator	US-2K19-1.SEC	Folder owner					~	
ASPNET	SEC-2K12-1.SE	Folder Name	Accounts & Secur	rden Administrator	Share Type Manage		~	
Browser extension guide			~	~	~		~	
Capital Email Marketing	http://mailchimp	anzee.com/	~	~	~		~	
Christmas Sale			~	~	~		~	

User Activities Report

To access this report, navigate to **Reports** >> **Standard Reports** >> **User Activity**. The User Activity Report depicts the activities performed by users in Securden. Click the respective username in the activity snapshot table to view the access details. The two bar graphs in the GUI display the frequent logins and usage of accounts during a 30-day time period. The **Activity Snapshot** further gives us more details about the user, their role along with their email id.

Privileged Account Manager								
Dashboard Accounts	Folders Users	Groups	Audit	Sessions	Reports	Admin		
Jser Activity Report Re	port Export: Export - Sched	lule Export						< Back
This report depicts the activities perform	ed by users in Securden. Click the r	espective username in t	the table below to vi	ew the access details	ŝ.			
Frequent logins to Securden du		Test Ab.		Users vs. Mo	ost accounts ac Securde.	cess during the p	ast 30 days 🕡 Test Ab.	
Activity Snapshot								
Q C III		Role ≜			Emai		Showing 1 to 50 of	64 50 V
Privileged Account Manager							Showing 1 to 50 of Q	64 <u>50</u>
Privileged Account Manager	Folders Users	Groups	Audit	Sessions	Emai Reports	Admin	-	
Privileged Account Manager Dashboard Accounts Jser Activity Report Reg	Folders Users	Groups	Audit	Sessions			-	8
Privileged Account Manager Asshboard Accounts Jser Activity Report Rep Activity Snapshot	Folders Users	Groups	Audit	Sessions			-	Sack
Privileged Account Manager Pashboard Accounts Jser Activity Report Rep Activity Snapshot	Folders Users port Export + Schedu	Groups	Audit	Sessions			Q V Search Accounts	Sack
Privileged Account Manager ashboard Accounts Iser Activity Report Rep activity Snapshot	Folders Users bort Export: Export - Schedu Ru	Groups ile Export	Audît	Sessions	Reports Email		Q V Search Accounts	Sack
Privileged Account Manager ashboard Accounts User Activity Report Rep activity Snapshot a a m semame uncan Hume	Folders Users bort Export - Schedu R A	Groups Ile Export ole ::	Audit	Sessions	Reports Email duncar	Admin	Q ✓ Search Accounts Showing 1 to 50 of 64	Sack
Privileged Account Manager ashboard Accounts User Activity Report Rep Activity Snapshot Column semane Uncan Hume imothy	Folders Users cort Export - Schedu R A A	Groups ule Export ole ::	Audit	Sessions	Reports Email duncan shyamu	Admin @securden.com	Q ✓ Search Accounts Showing 1 to 50 of 64	Sack
Privileged Account Manager ashboard Accounts Jser Activity Report Rep Accivity Snapshot Accivity Acci	Folders Users bort Export - Schedu R A A A	Groups Ile Export	Audît	Sessions	Reports Email duncan shyamu localad	Admin @securden.com enthil9925@gmail.com	Q ✓ Search Accounts Showing 1 to 50 of 64	Sack
Privileged Account Manager ashboard Accounts Jser Activity Report Rep Activity Snapshot a a m semame uncan Hume imothy recurden Administrator	Folders Users bort Export ♥ Schedu R A A A A A	Groups ule Export ole : .ccount Manager .ccount Manager .ccount Manager	Audit	Sessions	Reports Email duncar localad vito.car	Admin @securden.com min@securden.com	Q V Search Accounts Showing 1 to 50 of 64	Sack
Privileged Account Manager bashboard Accounts bashboard Reg bashboard Bashboard bashboard Bashboard <t< td=""><td>Folders Users Dort Export: Export → Schedu R A A A A A A A A</td><td>Croups Ile Export ole : </td><td>Audit</td><td>Sessions</td><td>Reports Email duncan shyam localad vito.cal</td><td>Admin @securden.com enthil9925@gmail.com min@securden.com ale@ofgem.gov.uk</td><td>Q V Search Accounts Showing 1 to 50 of 64</td><td>Sack</td></t<>	Folders Users Dort Export: Export → Schedu R A A A A A A A A	Croups Ile Export ole : 	Audit	Sessions	Reports Email duncan shyam localad vito.cal	Admin @securden.com enthil9925@gmail.com min@securden.com ale@ofgem.gov.uk	Q V Search Accounts Showing 1 to 50 of 64	Sack
Privileged Account Manager Privileged Account Manager Accounts Jser Activity Report Ref Activity Snapshot a a mu Jsername Suncan Hume Suncan Hume Suncan Hume Suncan Hume Suncan Hume Sala Govind	Folders Users	Croups Ile Export Ile Cont Annager Cocount Manager Cocount Manager dministrator dministrator	Audît	Sessions	Reports Email duncar objects localad vito.car michelu sakthig	Admin @securden.com enthil9925@gmail.com min@securden.com iale@ofgem.gov.uk .tammaro@ofgem.gov	Q V Search Accounts Showing 1 to 50 of 64	Sack
Privileged Account Manager Dashboard Accounts Jser Activity Report Rep Activity Snapshot	Folders Users bort Export ► Schedu R A A A A A A A A A A A A A	Croups ale Export ale Export ale count Manager account Manager administrator dministrator administrator administrator	Audit	Sessions	Reports Email duncar duncar shyam localad vito.ca michel sakthi(sanjay)	Admin @securden.com enthil9925@gmail.com min@securden.com iale@ofgem.gov.uk :tammaro@ofgem.gov. securden.com	Q V Search Accounts Showing 1 to 50 of 64	Sack

To get a user activity report, click on a username present under Activity Snapshot, and then you will be directed to a page that displays account usage statistics, user activity, account activity, groups that the user belongs to, directly shared folders, and group shared folders to that particular user.



Complete Visibilities on Windows Dependencies

Windows Accounts Dependencies Report

To access this report, navigate to **Reports** >> **Standard Reports** >> **Dependencies**. This report scans all computers and depicts the dependencies - domain accounts which are used as service accounts to run services, scheduled tasks, and IIS App pools. The pie chart shows the type distribution of scheduled tasks and services. The computer dependency snapshot table lists out the details about the dependency type and other details including the name of the computer.

Privileged A	ccount Manager								Q ← Search Accounts		8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
Windows Acc	counts Depender	icies Report	Report Export:	Export 👻	Schedule Expo	rt Last generated on 0)2 Jan 2023 13:1	B 🛃 Download as XLSX]	< Ba	ck
This report sca	ans all computers and de	epicts the depender	ncies - domain accounts v	which are used	as service accour	nts to run services, schedu	uled tasks, and IIS	App pools.			
Summary						Type distribut	tion				
Total Comp	uters				7				_	Scheduled Task Service	
Service Acc	ounts				7						
Dependent S	Services				6						
Dependent S	Scheduled Tasks				16						
Dependent /	AppPools				0						
Computer De	ependency Snaps	hot									
d G III									Showing 1 to 22 o	of 22 100 V	
Dependency Type	Dependen	cy Display Name	Dependency Name	Accou	unt Title	Account Address	÷ De	ependency Start Mode	Dependency State	Computer Nam	e .

Processes and Software

Processes and Software Inventory

To access this report, navigate to **Reports** >> **Standard Reports** >> **Processes and Software** >> **Processes and Software Inventory.** This report presents an inventory of all processes and software installed on each computer. Securden discovers the processes and the software installed on endpoints and servers on which the Securden agent is installed. The list of computers is displayed along with the processes that had run until the time of discovery in the 'Processes' table. The list of computers along with the software installed on each of them is displayed in the 'Software' table.

Privileged Account Manager				Q ✓ Search Accounts
shboard Accounts	Folders Users Grou	ups Audit Sessions	Reports Admin	
ocesses and Software Invent	Ory Report Export -	Schedule Export Last generated on 29	Sep 2021 06:59 🛃 Download as PDF	Preview PDF
			e software installed on endpoints and servers o s along with the software installed on each of th	n which the Securden agent is installed. The list of em is displayed in the 'Software' table.
System Processes run on this	s Computer			
Q C III				Showing 1 to 25 of 199 25 🗸
Process	Version	Publisher	Last Run 🛊	Computer
SEC-SUPPORT-2 (25 Processes)				
SEC-SUPPORT-2 (25 Processes) Microsoft Edge (msedge.exe)	97.0.1072.62	Microsoft Corporation	18 Jan 2022 14:54	SEC-SUPPORT-2
	97.0.1072.62 97.0.4692.71	Microsoft Corporation Google LLC	18 Jan 2022 14:54 18 Jan 2022 14:52	SEC-SUPPORT2 SEC-SUPPORT2
Microsoft Edge (msedge.exe)				
Microsoft Edge (msedge.exe) Google Chrome (chrome.exe)	97.0.4692.71 10.0.19041.746 (WinBuild.160101.0800)	Google LLC	18 Jan 2022 14:52	SEC-SUPPORT-2

Processes Inventory

To access this report, navigate to **Reports** >> **Standard Reports** >> **Processes and Software** >> **Processes Inventory.** This report depicts the list of all processes discovered across all computers on which the Securden agent is installed. The discovery process runs periodically and the processes that had run until the time of the last discovery are displayed. You can select a process to view the list of all computers on which it had run until the time of discovery.

Privileged	Account Manage	r								Q ← Search Accounts	
ashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin			
rocesses I	Inventory	Report Export: E	xport 👻 🕴 Schedu	le Export Last g	enerated on 09 Jan	2023 17:13 👱 Dov	vnload as PDF	Preview PDF			< Bac
	lepicts the list of all pro ou can select a process					d. The discovery proc	ess runs periodica	ally and the processe	es that had	run until the time of the last o	discovery are
Q	III									Showing 1 to 100 of 196	100 ~
Process ¢					Ven	ion					
AAD token br	roker plugin (Microsoft.	AAD.BrokerPlugin.ex	2)		10.).19041.1387 (WinBui	ld.160101.0800)				
App Uri Hand	ders Registration Verifi	er (AppHostRegistrat	ionVerifier.exe)		10.).19041.1 (WinBuild.1	60101.0800)				
Application F	Frame Host (Application	nFrameHost.exe)			10.).19041.746 (WinBuild	1.160101.0800)				
Background 1	Task Host (background	TaskHost.exe)			10.	0.19041.546 (WinBuild	d.160101.0800)				
BDE UI Laund	cher (BdeUISrv.exe)				10.	0.19041.1202 (WinBu	ld.160101.0800)				
Calculator.ex	e				10.	2103.8.0					
COM Surroga	ate (dllhost.exe)				10.	0.19041.546 (WinBuild	d.160101.0800)				

Software Inventory

To access this report, navigate to **Reports** >> **Standard Reports** >> **Processes and Software** >> **Software Inventory.** This report depicts the list of all software installed across all computers on which the Securden agent is installed. The discovery process runs periodically and the software that was found installed until the time of the last discovery is displayed. You can select a software to view the list of all computers on which it was installed until the time of discovery.

Privileged Accour	ie manager								Q ✓ Search Accounts	
shboard A	ccounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
oftware Inventor	у в	leport Export: Expor	t 🕶 📔 Schedule	Export						< Bac
This report depicts the are displayed. You car							runs periodically an	d the software that were	found installed until the time of the last dis	scovery
d G III									Showing 1 to 25 of 38 2	ō V
Software ≑			V	ersion			Publi	sher		
Google Chrome			9	7.0.4692.71			Goog	gle LLC		
Greenshot 1.2.10.6			1	2.10.6			Gree	nshot		
Intel(R) Chipset Device	e Software		1	0.1.18460.8229			Intel	Corporation		
Intel(R) Chipset Device	e Software		1	0.1.18460.8229			Intel	(R) Corporation		
KeePass Password Sa	ife 2.49		2	49			Dom	inik Reichl		
Lenovo Vantage Servi	ce		3	10.26.0			Leno	vo Group Ltd.		

Securden Agents on Computer

To access this report, navigate to **Reports** >> **Standard Reports** >> **Processes and Software** >> **Securden Agents on Computers**. This report shows the list of computer names and agent versions installed on each computer.

Privileged Ad	ccount Manager								Q ✓ Search Accounts	
ashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin		
Computer Age	ent versions	Report Export:	Export 👻 📔	Schedule Export					I	< Back
This report show	ws the list of computer	names and agent ver	sions installed o	n each computer.						
Computer a	agent version sn	apshot								
QC	đ								Showing 1 to 3 of 3 25	\checkmark
Agent Version 🖨				Last Connected Time			Opera	ting System		
5.7.9				18 Jan 2022 14:53			Winde	ows 10 Pro		
0.1.5										
5.5.8				09 Sep 2020 04:01			Winde	ows Server 2016 Datacenter		
				09 Sep 2020 04:01 11 Jul 2020 15:45				ows Server 2016 Datacenter		

Concise Reports

Concise Reports provide you 'to the point' information on specific topics. For example, if you want to know the list of passwords that were changed during the past X number of days, the concise reports will get you the details quickly.

💙 Privileged Account Manager					Q ← Search Accounts	2~
Dashboard Accounts Folders Users	Groups Audit	Sessions	Reports	Admin		
Standard Reports Concise Reports Password Security A	Analysis Exported Rep	orts				
Account Management		User Manageme	nt			1
List of accounts whose passwords violate complexity requirements.		List of users inactive fo	r 300 days and more			- 1
List of accounts that are not associated with a password policy.		List of super administra	itors.			- 1
List of accounts that are associated with a password policy.		List of administrators.				- 1
List of passwords changed in the last 19 days.		List of users for whom	MFA is enforced.			- 1
List of passwords not changed in the last 12 days.		List of disabled users.				
List of passwords not accessed in the last 172 days.		List of users who are pa	irt of a group.			
List of accounts for which approval workflow has been enforced.		List of users who are no	ot part of any group.			
List of accounts for which remote password reset is configured.		List of local users yet to	access the applica	tion interface		

Concise reports consists of different categories:

Account Management

The account management section deals with the list of accounts and password related matters. This includes violation of password complexity requirements, password policies and expiry duration etc.,

User Management

The user management section deals with the list of many user activities. This includes inactive users, super admins, disabled users, users part of group and those who are not part of any groups.

My Accounts

This section deals with the list of accounts:

- 1. Owned by you
- 2. Shared by you
- 3. Shared with you

Folder Management

The folder management section deals with a list of folders owned, shared by you, not shared with anyone and also folders for which approval workflow has been enforced.

My Folders

This section deals with a list of folders:

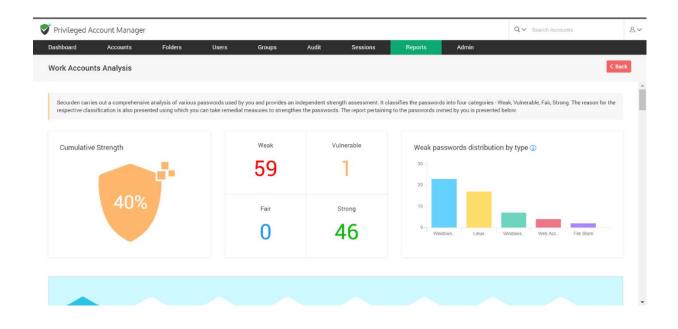
- 1. Owned by you
- 2. Shared by you
- 3. Shared with you

Password Security Analysis

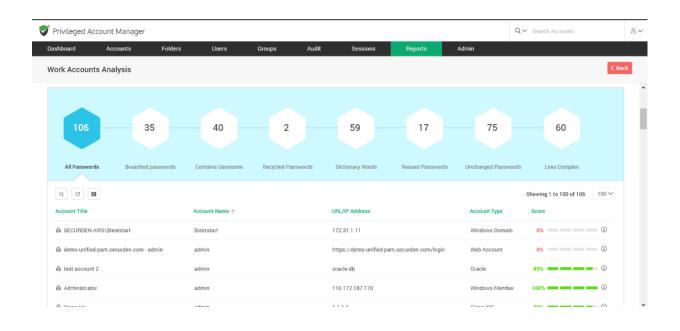
Work Account Analysis

To access this report, navigate to **Reports >> Password Security Analysis** >> Work Accounts Analysis.

Securden carries out a comprehensive analysis of various passwords used by you and provides an independent strength assessment. It classifies the passwords into four categories - Weak, Vulnerable, Fair, Strong. The reason for the respective classification is also presented, using which you can take remedial measures to strengthen the passwords. The report pertaining to the passwords owned by you will be presented on the screen.



The cumulative strength password indicates the overall strength of the various passwords in terms of the percentage. The bar graph of weak passwords distribution by type depicts a quick summary of the weak passwords belonging to different account types. The types that have the most number of weak passwords are also displayed on the screen.



The hexagons display the category of password (such as breached passwords, less complex passwords, reused passwords, etc.,) and show the table with account details and strength score of the password (in percentage). The score column further tells us which criterias have been satisfied by that password and gives a detailed password analysis for each account.

Privileged Account Manager				Q	 Search Accounts 	
Dashboard Accounts Folders	test account 2		×			
Vork Accounts Analysis	Account Name admin		Î			< Back
a demo-unified-pam.securden.com - admin	Password ****	*****	- 1	Account	0% ——————	- (i)
da test account 2	FQDN/IP Address oracle-db (o	cle-db)	- 1		89%	•
da Administrator	Password Analysis		- 1	ows Member	100%	• •
da Cisco los	Password not changed for long	Susername is not part of the password	- 1	IOS	89%	• •
da Test acccount	 Contains special characters Conatins mixed characters 	 Password is not recycled Password doesn't contain dictionary words 	- 1	AD	0%	
dir Shairam - Test	🕗 Contains numbers	Password doesn't contain sequential character	s	ws Member	50%	0
a SECURDEN-AWS\administrator	 Characters are not repeated Password length is sufficient 	 Password is not reused Not a commonly used password 		ws Domain	10% -	0
di Administrator		Not found in the breached passwords list		ws Member	ox	•
da Administrator	4		•	ows Member	89%	(i)
📾 Administrator	Administrator	sec-demo-2k16.SECURDEN.AWS.COM	Wind	dows Member	89%	(j)
th Administrator	Administrator	SEC-TEST-2K19-2 SECURDEN AWS.COM	Wind	dows Member	0%	6

Personal Account Analysis

To access this report, navigate to **Reports >> Password Security Analysis >> Personal Accounts Analysis**.

This report keeps track of the personal account passwords and provides an analysis about the activities performed with those accounts.

ersonal Accounts Analysis								< Bac
Securden carries out a comprehensive the respective classification is also pro					t classifies the pass	words into four categories - 1	Veak, Vulnerable, Fair, Strong. The rea	ason for
Cumulative Strength	e.	Weak	Vu	linerable	Weak pa	asswords distribution I	y type (j)	
100%		Fair		Strong		🗍 No Data Y	et	

Exported Reports

To access these reports, navigate to **Reports** >> **Exported Reports**. You can view the reports already exported in various formats and download them. The different types of reports which were already exported are displayed here along with the date of download and the user who generated it. Click on **Configure Export Location** to change the location for the exported reports.

Privileged Account Manager							
Dashboard Accounts	Folders Users	Groups A	udit Sessions	Reports	Admin		
Standard Reports Concise Rep	orts Password Security	Analysis Exporte	d Reports				
You can view the reports already exported i	n various formats and download the	m.					
Q C III Configure Export Location	1					Showing 1 to 25 of 27	25 ∨
Report Name	Generated By		Date 💠		Download / F	Preview	
Activities on Accounts Report (PDF)	Securden Administrato	r	10 Apr 2023 06:08		⊻ ⊑		
Account Access Report (PDF)	Securden Administrato	r	23 Mar 2023 15:52		⊻ 🖷		
Processes Inventory (PDF)	Securden Administrato	r	09 Jan 2023 17:13		⊻ 🖷		
Windows Accounts Dependencies Report (XLS	X) Securden Administrato	r	02 Jan 2023 13:18		不		
Windows Accounts Dependencies Report (XLS	X) Securden Administrato	r	02 Jan 2023 13:17		不		
Windows Accounts Dependencies Report (CS)	/) Securden Administrato	r	02 Jan 2023 13:13		不		
Activities on Accounts Report (PDF)	Securden Administrato	r	04 Nov 2022 09:30		₩ 🖷		
Windows Accounts Dependencies Report (PDF	Securden Administrato		07 Oct 2022 10:25		* 🖪		

Section 19: Miscellaneous

Change Database

If you want to change the backend database to MS SQL Server, you can change your backend database from the default PostgreSQL to MS SQL server. When you change the backend, you will be starting afresh - that means, your existing data in PostgreSQL will not be migrated. To change the backend database from the default PostgreSQL to MS SQL Server, follow the steps below:

- Stop **Securden PAM Service** from services.msc (in the machine in which Securden is installed)
- Navigate to <Securden Installation Folder>/bin folder and execute

ChangeDatabase.exe and in the GUI, supply SQL instance name,

database name, username, and password to connect to the database.

 Now, start the Securden PAM Service from services.msc (you may ignore the other service named Securden Web Service, which is automatically taken care of)

• Connect to the web interface https://<local-host>:5959 (or)

https://<host-name>:5959

• Clear browser cache

Store Encryption Keys on Securosys HSM

You can configure an HSM device and store the Securden encryption key for additional security. HSM is an encrypted, security-hardened device used for storing, generating, and rotating encryption keys. You need to provide certain details of your HSM device and configure it before storing the Securden encryption key in your HSM device.

Prerequisite: You need to take a backup of your entire database along with the encryption key before starting the HSM configuration process.

Step 1: Stopping the Securden PAM service on Primary and Secondary servers

Navigate to services.msc and **Stop** the **Securden PAM service**. If you have configured secondary application servers in your organization, you need to stop the Securden PAM service on all the secondary servers.

Step 2: Configuring the HSM

Navigate to <Securden installation folder>/bin and locate **ConfigureHSM.exe**.

Open **ConfigureHSM.exe** and provide the following details:

- 1. **HSM Provider Name**: The name of your HSM provider. You can select Securosys from the drop-down menu.
- DLL File Path: Securden integrates with your HSM provider through their primus.dll file. You need to specify the location of this file in this field.
- 3. **HSM Slot ID**: The partition in which the Securden encryption key should be stored.
- 4. **HSM Slot Password**: The credential required for accessing the HSM and storing the encryption key in the slot mentioned above.
- 5. **Encryption Key Label**: The name with which the Securden encryption key should be stored in the HSM.

Once the required details are provided, click **Configure**.

Important:

After configuring the HSM,

- 1. The entire database will be decrypted using your current key and encrypted using a new key which is stored in your HSM.
- 2. You need to take a fresh backup of your database since your previous backup copies cannot be restored, since the encryption key is different.
- 3. If you had configured secondary servers of any type before configuring the HSM, they would not work as intended after the process is completed. This is because of the encryption key mismatch between the primary server and the secondary server. You need to re-configure all

secondary servers (Remote distributors and high availability servers) and deploy the application server package once again.

 Securden primary and secondary servers share the same HSM keys. You need to ensure that HSM keys (hsm_1.key, hsm_2.key, and hsm_3.key) are located in the default (Securden\conf) folder.

Browser Extensions

Securden provides browser extensions to facilitate auto-fill of credentials on websites and web applications. When you create new accounts on websites, the same can be added to Securden without leaving that website. You can view accounts, passwords and also launch connections with websites from within the browser extension. Securden server should be running in the background for the browser extension to work. Extensions are available for Chrome, Firefox, and Chromium-based Edge browsers.

Navigate to **Admin >> General >> Browser Extensions** to download the extensions.

	Mark as 'Never Save'	ddit Sessions Reports Input Field Mapping for Everyone	Admin Input Field Mapping for M	lyself
to facilitate auto-fill of credenti		Input Field Mapping for Everyone	Input Field Mapping for M	lyself
to facilitate auto-fill of credenti		Input Field Mapping for Everyone	Input Field Mapping for M	lyself
		ns. When you create new accounts on websites, th should be running in the background for the browse		
0	Firefox	Chromium Edge		
		rely, you may copy and paste the following URL into y	our browser's address bar.	
o download and install the extens	ion.			
ermissions window will ask your	consent to gain necessary permissi	ons to do various operations. Click 'Add Extension'.		
urden has been added to Chrome	. You can start using the extension.			
	extension directly by clicking th bebstore/detail/securden/etdf/pp download and install the extens ermissions window will ask your urden has been added to Chrome	extension directly by clicking the Chrome icon on the top. Alternativ bestore/detail/securden/defd/pgordbmrbihmegnpkeeiab/mcoh	extension directly by clicking the Chrome icon on the top. Alternatively, you may copy and paste the following URL into y testore/detal/secuden/edf/tpgndbmbil/megngkeeiabjmcoh o download and install the extension. emissions window will ask your consent to gain necessary permissions to do various operations. Click 'Add Extension'. urden has been added to Chrome'. You can start using the extension.	extension directly by clicking the Chrome icon on the top. Alternatively, you may copy and paste the following URL into your browser's address bar: tebstore/detal/securden/edt/tpoyndomnbihmegrpakeelabjmcoh o download and install the extension. emissions window will ask your consent to gain necessary permissions to do various operations. Click 'Add Extension'. urden has been added to Chrome'. You can start using the extension.

The steps to install different browser extensions are given below:

Chrome

• You may download the chrome extension directly from the GUI. Alternatively, you may copy and paste the following URL into your browser's address bar:

https://chrome.google.com/webstore/detail/securden/efdfjhpgndb mnbihmegnpkeeiabjmcoh

- Select the 'Add to Chrome' menu to download and install the extension.
- The Google Chrome browser permissions window will ask for your consent to gain the necessary permissions to do various operations. Click Add Extension.
- You will see the message 'Securden has been added to Chrome'. You can start using the extension.

Firefox

• You may download the chrome extension directly from the GUI. Alternatively, you may copy and paste the following URL into your browser's address bar: https://addons.mozilla.org/enUS/firefox/addon/securden/

• Click the 'Add to Firefox' menu to download and install the extension.

• The Mozilla Firefox browser permissions window will ask for your consent to gain the necessary permissions to do various operations. Click 'Add'.

• You will see the message 'Securden has been added to Firefox'. You can start using the extension.

Chromium Edge

• You may download the chrome extension directly from the GUI. Alternatively, you may copy and paste the following URL into your browser's address bar: Securden - Chrome Web Store (google.com)

• Select the 'Add to Chrome' menu to download and install the extension.

• The Chromium Edge browser permissions window will ask for your consent to gain the necessary permissions to do various operations. Click 'Add Extension'.

• You will see the message 'Securden has been added'. You can start using the extension.

In addition to installing browser extensions, you can do certain configurations related to the usage of the extensions.

Blacklist URLs

Once you install the extension, whenever you create a new account/password on a website, it usually prompts you to add the accounts to Securden inventory. There might be requirements where you wouldn't need certain accounts to be added to Securden. You can handle such scenarios through the blacklist URLs option.

This option Securden allows you to add (and delete) specific URLs that are not to be stored in Securden through the browser extension in your organization.

Navigate to **Admin >> General >> Browser Extension >> Blacklist URLs** page and click the **Add** button.

💎 Privileged Account Manager											Q.,	 Search Accounts 		8.
	Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin					
	Admin > Browser Ex	tension												
	Browser E	xtensions	Blacklist URLs	Ν	Mark as 'Never Save		Input Field Mappir	ig for Everyone	Inpu	It Field Mapping	for Myse	lf		
	You can add spec	cific URLs that are not	t to be stored in Securder	through brow	vser extension in your org	anization.	Once this is configured, no	one will be able to sa	ve accounts in Sec	curden with the specif	ied URLs.			
	Q (C)	Add Delete										Showir	ng 0 to 0 of 0	25 🗸
	URL 🗢													
						₿ No	o data found							
	Showing 0 to 0 of 0	25 🗸											((1	

Once this is configured, no one will be able to save accounts in Securden with the specified URLs.

Mark as Never Save

This feature is similar to the Blacklist URL option and allows you to define specific URLs that are not to be stored in Securden through the browser extension. While the Blacklist URLs option takes effect globally across the organization for all users, the 'Never Save' option is user-specific and doesn't affect the entire organization.

Typically, the URLs that are marked not to be saved in Securden (setting you will see in the extension) will be listed on this page.

Navigate to **Admin >> General >> Browser Extension >> Never Save** page to manage such URLs.

💙 Privileged A	Account Manager									Q∨ Sear	ch Accounts	8~
Dashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin				
Admin > Browser	Extension											
Browser	Extensions	Blacklist URLs	Mar	k as 'Never Sav	e'	Input Field Mappin	g for Everyone	Inpu	ıt Field Mapping	for Myself		
	pecific URLs that are not t accounts in Securden wi				organization.	This can be configured fror	n the browser extens	sion. This setting	is user-specific and	takes effect for you.	Once this is configured, you	won't
Q C III	Delete										Showing 0 to 0 of 0	25 🗸
🔲 URL 🗢												
					177) data found						
					W No	data tound						
Showing 0 to 0 of 0	25 🗸										≪ < 1 :	

You can add specific URLs that are not to be stored in Securden through browser extension in your organization. This can be configured from the browser extension. This setting is user-specific and takes effect for you. Once this is configured, you won't be able to save accounts in Securden with the specified URLs using Securden browser extension.

Moving Securden Installation from One Machine to Another

If you want to move the Securden installation from one machine to another (for example, moving a test setup to production), you may follow the steps below:

Prerequisite: Securden installation is guarded by a unique encryption key. When you move the installation, you need to take care of the key as well. The new installation would require the key. By default, the encryption key is available as <Securden-Installation-Folder>\conf\securden.key. In production instances, we enforce changing the key location. If you have changed it from **Admin >> Security >> Change Encryption Key**

Location, you need to ensure that the key is present in the location specified.

To move Securden from one server to another follow the steps below.

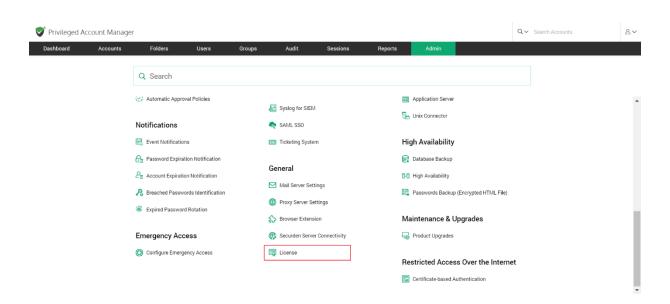
- Stop the "Securden PAM Service" from services.msc
- Copy the entire Securden installation folder
- Paste it on the new server

671 Securden Unified PAM

- Open a command prompt, run with admin privileges, and navigate to <Securden Installation Folder>/Privileged_Access_Manager/bin folder
- Execute the command SecurdenServiceInstaller.exe install
- Start the "Securden PAM Service" from services.msc

Section 20: Product License Key

You can apply the Securden license key and get information about the existing license from **Admin >> General >> License** section.



In the License details page, the following details are displayed:

ashboard	Accounts	Folders	Users	Groups	Audit	Sessions	Reports	Admin	
dmin > License									
icense Deta	ils								
istomer Name									
ontact Name									
oduct	Securden								
ition	Standard								
ense Type	Registered								
er Limit	10								
tive Users	6								
maining Users	4								
atus	Expires on	09 Apr 2024 00:00							
pply License									
Choose a file			Browse						

Customer Name: The name of the organization for which the product is licensed

Contact Name: Contact person within the company

Product: The name of the product purchased from Securden.

Edition: Product edition name

License Type: This indicates if you are a registered user or if you are using the trial version.

User Limit: The number of users that can be onboarded into Securden.

Active Users: The number of users that are currently onboarded into the solution.

Remaining Users: The number of users who can be added into Securden.

Addons: Product addons, if any.

Status: The number of days until expiration is displayed here. To add a new license, you can use the browse button to search for that license and upload the same

Renewing the PAM license

To renew the license, you may reach out to <u>support@securden.com</u>. You will receive a license file that you need to unzip (.txt) and upload. You can click **Browse** and select the downloaded file.