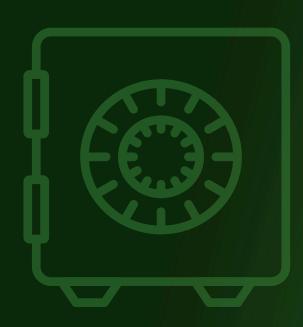


**Password Vault for Enterprises** 

# Quick Start Guide



# **Securden Password Vault for Enterprises**

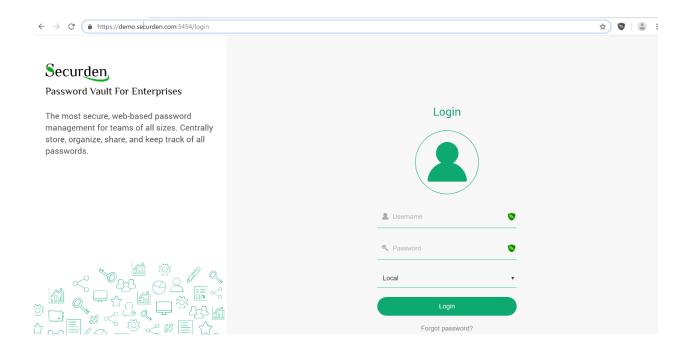
# **Section 1: Getting Started**

This document provides a quick summary of the steps you need to do to get started with Securden Password Vault For Enterprises (Vault). Detailed instructions for each step are given in the product GUI itself.

# Starting the Password Vault Server

- You can start and shutdown Vault from Windows Services Manager (services.msc).
- Locate Securden Vault Service and start, stop it as required. This
  takes care of starting and stopping the dependent services too. You
  may <u>safely ignore</u> the other service named Securden Vault Web
  Service, which is taken care of by Securden automatically.

#### **Launching Web Interface**



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

#### https://<Vault server hostname>:5454

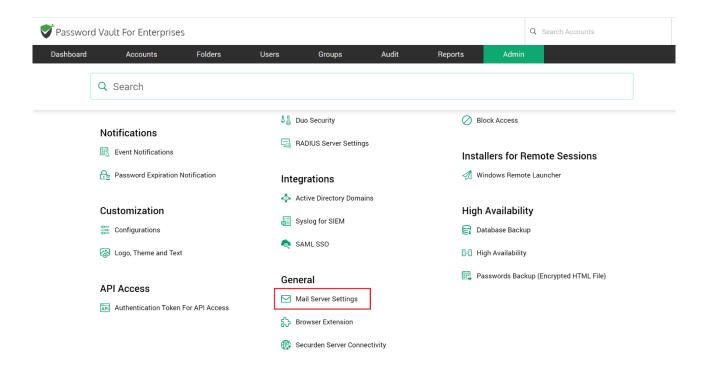
To access an unconfigured setup, the default login details are as below:

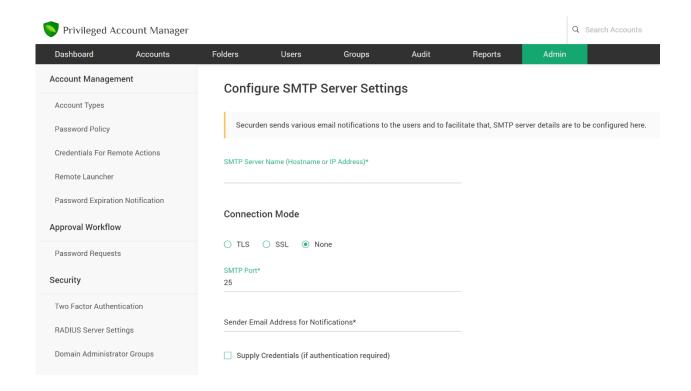
**Username**: admin **Password**: admin

# **Section 2: User Management**

# **Prerequisite: Configure Mail Server Settings**

Securden sends various email notifications to the admins/users and to facilitate that SMTP server details are to be configured. Navigate to **Admin** >> **General** >> **Mail Server Settings** in the GUI to perform this step.





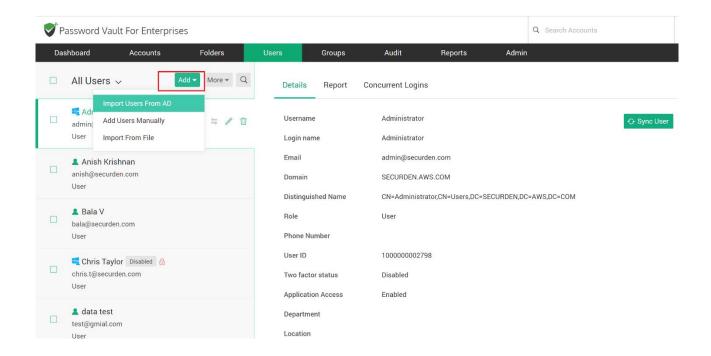
# **Step 1: Onboard Your Users**

You need to create accounts for your team members to enable them to use Securden. There are two options to do this. You can import users from Active Directory or manually add users.

#### **Import from Active Directory**

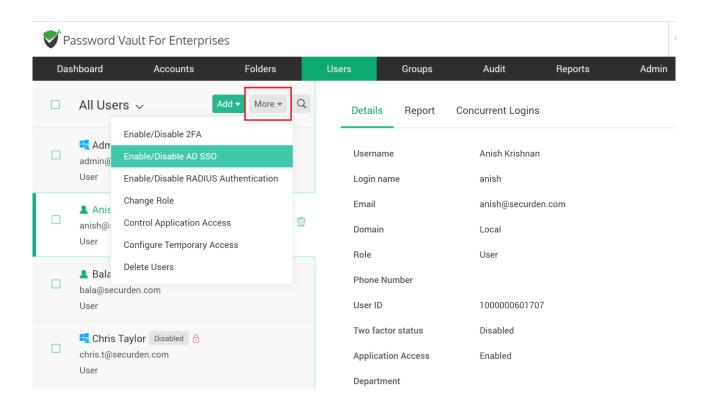
In the case of importing from AD, Securden scans your AD domain and obtains the users and groups in the domain. You can discover any specific user(s) or a group of users and add them to Securden. Navigate to **Users** >> **Add** >> **Import Users From AD** in the GUI to perform this step.

**Note:** When importing users from AD, you have the option to import them with specific roles. You can find more information about user roles in step 2 below. By default, the role 'user' will be assigned for all users imported from AD.



If you want to import users with any other specific role, you can modify the setting in **Admin >> Customization >> Configurations >> Defaults Selection** section and then import.

#### **AD SSO**



Once you integrate Active Directory, you can leverage the Active Directory authentication and single sign on. If your users are already logged into their AD account, they can automatically access Securden web-interface.

To enable ADSSO, navigate to '**Users**' tab, select the users for whom SSO needs to be enabled. From '**More**' drop-down, click '**Enable/Disable AD SSO**'.

#### **Add Users Manually**

You can also create accounts for users in Securden manually. In this case, users will get login credentials to access the PAM. Navigate to **Users** >> **Add** >> **Add Users Manually** in the GUI to perform this step.

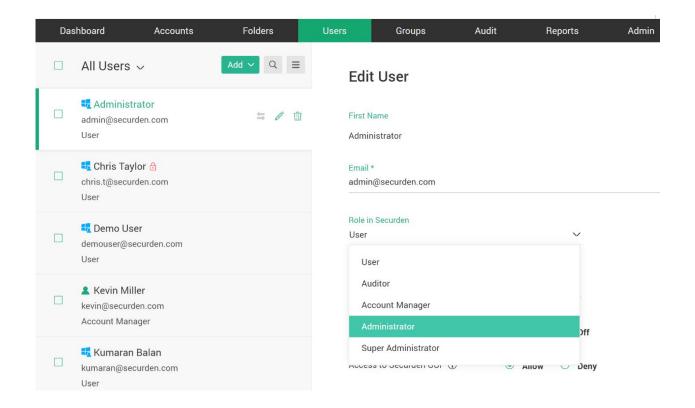
#### **Another Option: Import from Files**

Another option to add your users to Securden is to import the details from a CSV or XLSX file. This essentially adds all users locally in Securden at one go. Navigate to **Users** >> **Add** >> **Import from File** in the GUI to perform this step. In the import screen, you can specify the role with which the users are to be imported to Securden (see below for more information about user roles).

# Step 2: Assign Roles for Users

By default, the users imported from Active Directory will have the role 'Users'. You can assign appropriate roles for many users in bulk or individually for each user.

To change the role of users in bulk, navigate to **Users** section in the GUI and select the required users. Then click **'Change Role'** option under **'More Actions'**. Alternatively, use the **'Edit'** option to change the role of users individually.

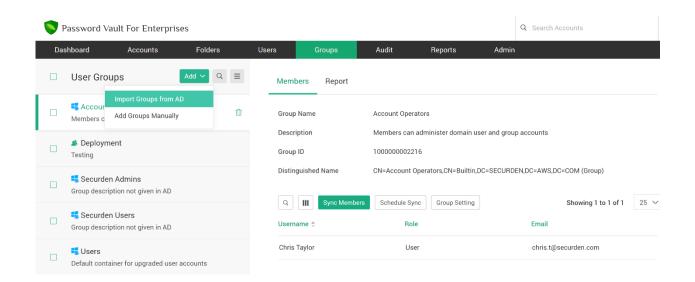


# There are five user roles in Securden with privileges as explained below:

- Super Administrator Can view all work related passwords stored in the application. Overall administration of the application, including user management.
- Administrator Can administer the application, including user management. Can see only the passwords that are owned and the ones that are shared with.
- Account Manager Can add accounts to the application. Performs all administrative tasks related to the accounts.
- User Can view the accounts shared by administrators. They can manually add accounts and share them with others. (They will not have the privilege to import accounts). If needed, you can disable account addition privilege for users.
- Auditor Can view the reports and audit trails generated in the application. They can manually add accounts and share them with others.

## **Step 3: Create 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 organization.

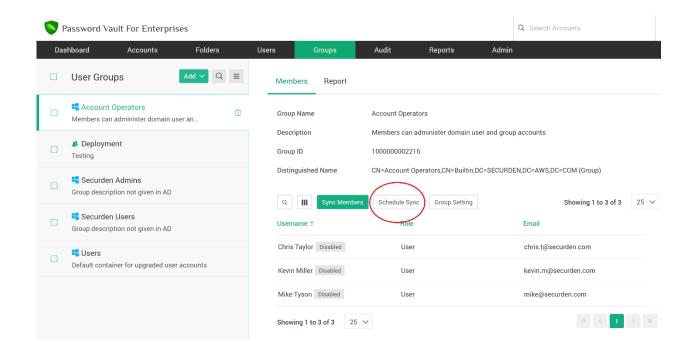


You can define various access permissions at the group level so that when a new member joins the organization, by placing the member at the right group, the member can inherit the access permissions automatically. There are two ways to create user groups - you can import groups directly from AD or add groups manually. Navigate to **Groups** >> **Add** in the GUI to perform this step.

#### **Configure Periodic Synchronization of Groups**

You can create a scheduled task to 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.

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



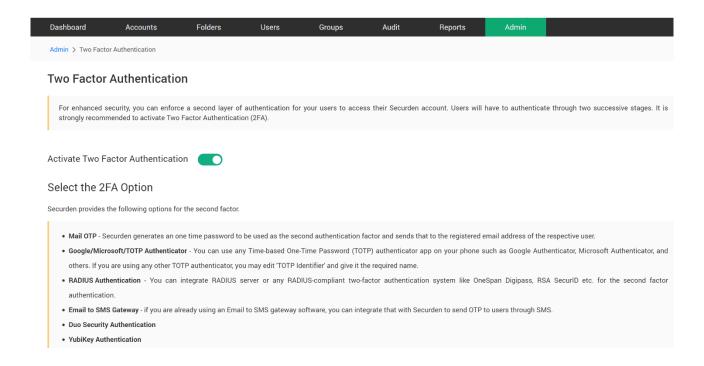
# **Step 4: Explore Single SignOn Options**

Securden integrates with various SAML-compatible federated identity management solutions such as Okta, G Suite, Microsoft ADFS, OneLogin, PingIdenity, 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). If you are using any SSO solution already, you may integrate that with Securden.

To enable Single Sign On, navigate to **Admin >> Integration >> SAML SSO** section in the GUI.

## **Step 5: Configure Two Step Verification**

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

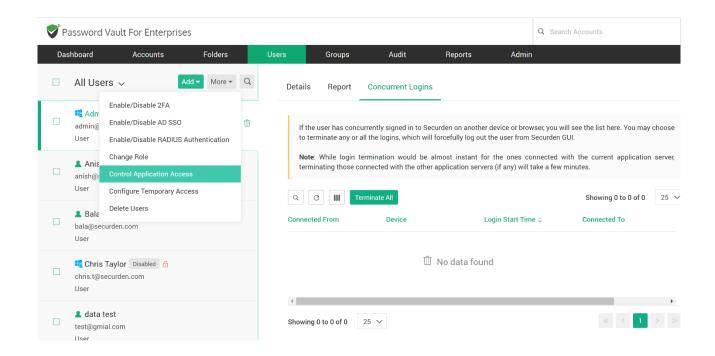


At present, Securden supports TOTP authenticators (Google Authenticator, Microsoft Authenticator and others), any RADIUS-compliant 2FA mechanism (OneSpan Digipass, RSA SecurID, and others), Duo Security, Yubikey, a one-time password through email, and OTP via SMS (using Email to SMS tools) as the second factor. Navigate to **Admin >> General >> Two Factor Authentication** in the GUI to perform this step.

# **Step 6: Explore Granular Controls**

You can exercise granular control over the users in Securden. From the 'Users' tab, you will be able to monitor the concurrent logins of each user separately. For example, if a user has logged in to the Securden web-interface through web on multiple browsers, and also through mobile apps, the 'Concurrent Logins' section lists out all the logins. You can review and even terminate any or all the logins.

In addition, from the 'More' drop-down, you can exercise other controls such as selectively enabling/disabling 2FA, AD SSO, grant temporary access to Securden, temporarily disable access and even delete users.



# **Section 3: Password Management**

#### **Account Ownership and Sharing: The Basic Design**

Any login information - username and password - stored in Securden is referred to as an account. One who adds an account becomes the owner of that particular account. The owner alone can see that account when logging in to Securden. If the owner wants others to view, the account has to be shared. When you login to Securden web-interface, you will see only the accounts that are owned by you and the ones that are shared with you. Only the super administrator is exempted from this rule. Super admin can see all the work-related accounts stored.

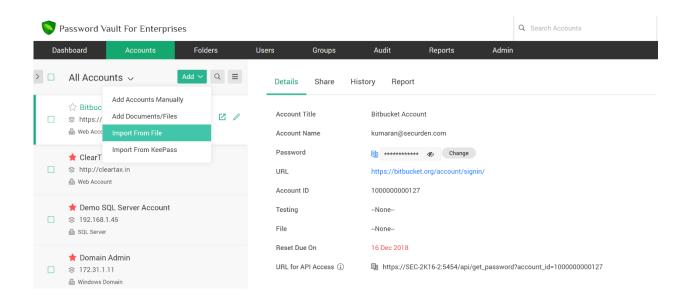
# **Step 1: Add Your Accounts**

The first step to getting started with password management is to consolidate all your accounts to the central repository. You can add accounts in two ways – import from a CSV/XLSX file or manually add them.

#### 1.1 Import Accounts

If you are already using another password manager or keeping your passwords on excel sheets, you can import accounts from a standard CSV file.

Navigate to **Accounts** >> **Add** >> **Import From File** to perform this.



If you are using KeePass, you can export your data from KeePass either as a KDBX file or as XML 1.0/2.0 file and import them to Securden in one click. Navigate to **Accounts** >> **Add** >> **Import From KeePass** to perform this.

#### **Format**

Accounts import is very flexible in Securden. You can simply import the file you have exported from your current repository into Securden. Typically, each line in the file is added as an account. In the second step of accounts import, you can **map the columns** in the input file and that of Securden. So, the format of the import file doesn't have a major role.

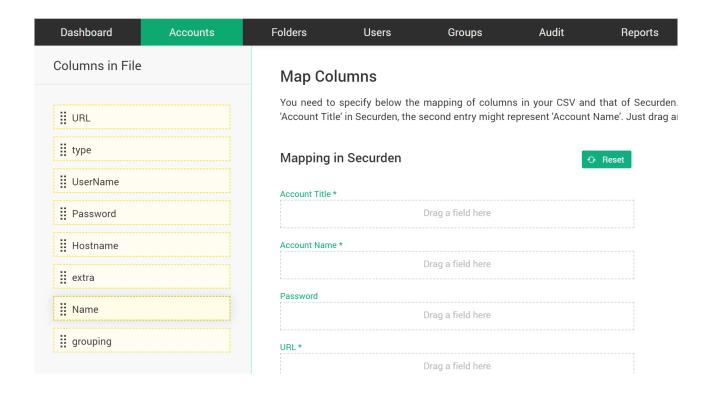
#### Steps to import

Navigate to Accounts >> Add and select "Import From File" option.

- Browse and select the file
- Click 'Next'. In the second step of the import, we provide the option to map the columns in the input file and that of Securden.

#### Mapping

In the second step of import (refer to the screenshot below), you can map the columns (drag and drop from LHS to RHS). For example, you can map Name --> Account Title, UserName ---> Account Name, Password --> Password, URL --> URL, Hostname --> Hostname (created as additional field), extra --> extra (created as additional field), grouping ---> Folders.



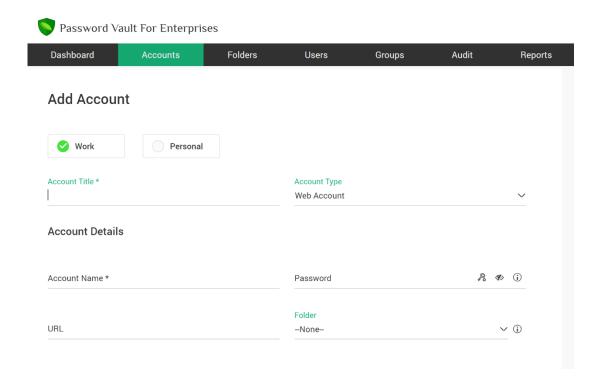
#### **Taking Care of Additional Fields**

To include the additional fields present in your file into Securden, either you can create a new account type (this is similar to a template) or edit an existing account type. To do this, navigate to **Admin >> Account Management >> Account Types** and click "**Add Account Type**". Fill in the details. For '**Password Policy**', select the option '**Don't link any policy**' and at the bottom

of the page, you will see "**Add Fields**". Click that and add the required additional fields. Give the additional field the required name (in your case Hostname, extra) using '**Field Label**'. This takes care of the additional fields.

#### 1.2 Add Accounts Manually

You can add accounts manually too. Navigate to **Accounts >> Add** in the GUI to perform this step.



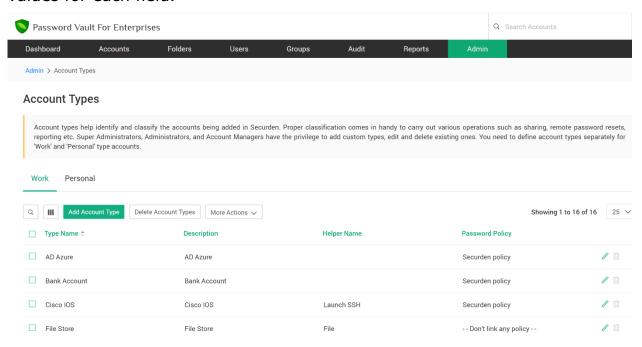
#### 1.3 Accounts Classification - Work and Personal Accounts

When adding accounts, you can classify them as 'Work' or 'Personal'. Work accounts belong to your organization and hence can be shared with your colleagues on need basis. 'Personal' accounts belong to you and cannot be shared with others. Only you can see such accounts.

**Note:** Super admin cannot view the personal accounts of other users. If your organization prefers not to have 'Personal' classification, it can be disabled from **Admin >> Customization >> Configurations** >> **Personal** section.

#### 1.4 Account Types

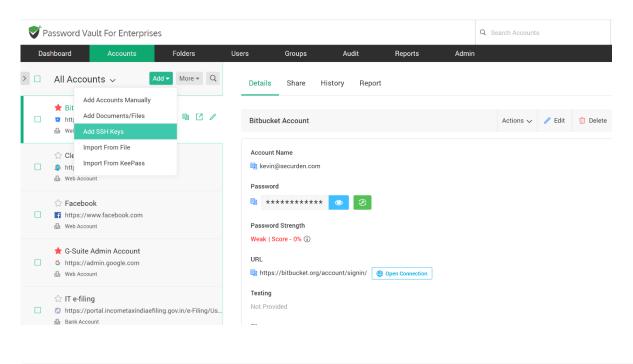
Account types help identify and classify the accounts being added in Securden. Proper classification comes in handy to carry out various operations such as sharing, reporting etc. Super Administrators, Administrators, and Account Managers have the privilege to add custom types, edit and delete existing ones. When creating your own account types, you can define the fields needed for that type, whether certain fields should be marked as 'mandatory' and the default values for each field.

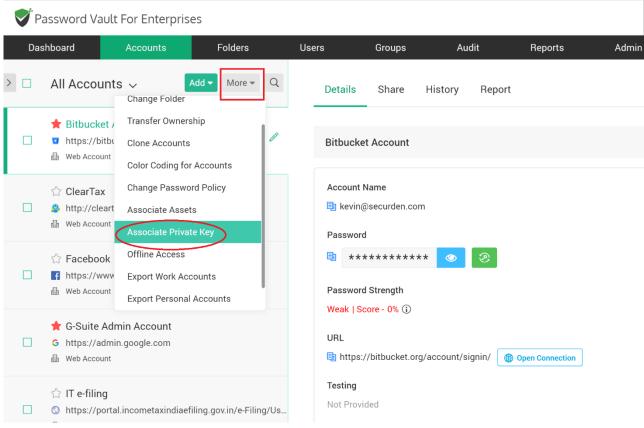


Navigate to **Admin >> Account Management >> Account Types** to create new account types and to manage existing ones.

#### 1.5 Add SSH Keys

In addition to storing passwords, you can also store and manage SSH keys. The provision to manage SSH keys help you store the keys securely, track their usage, and associate them with required Unix devices for authentication and remote access. Navigate to **Accounts** >> **Add** >> **Add SSH Keys** in the GUI to perform this step.





After adding the keys, you can associate the required key with the required account by clicking 'Associate Private Key' option in 'More Actions' (the icon showing three horizontal lines next to the 'Add' button in 'Accounts' tab. After associating the key, you can open direct connections with remote Unix devices

using private key authentication.

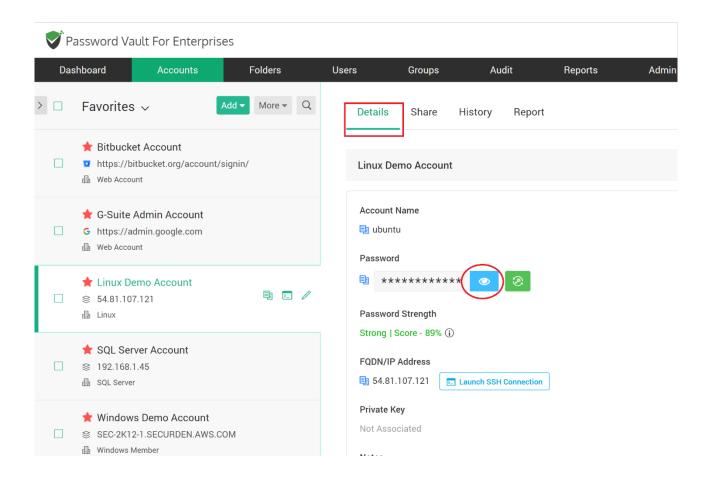
#### 1.6 Add Documents, Files

In addition to storing passwords, you can also store and manage documents, files, images, license keys and others. You can either attach files along with any account or even store the documents individually.

Navigate to **Accounts** >> **Add** >> **Add Documents/Files** in the GUI to perform this step.

# **Step 2: 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.



Click the 'Eye' icon to view the password. The bottom of the 'Details' section provides more information about the other attributes of the account. In addition, security-related information such account creation time, ownership details, last access and modification details.

Click 'Show More Details' link to view these details.

Whenever you change the passwords of the accounts, you can update the same in Securden too from the **Accounts** >> **Details** section in the GUI. Click the **'Change'** icon located alongside the password field to change the password.

# Step 3: RDP, SSH, SQL, Website Connections (Remote Connections for Employees, 3<sup>rd</sup>-party Contractors)

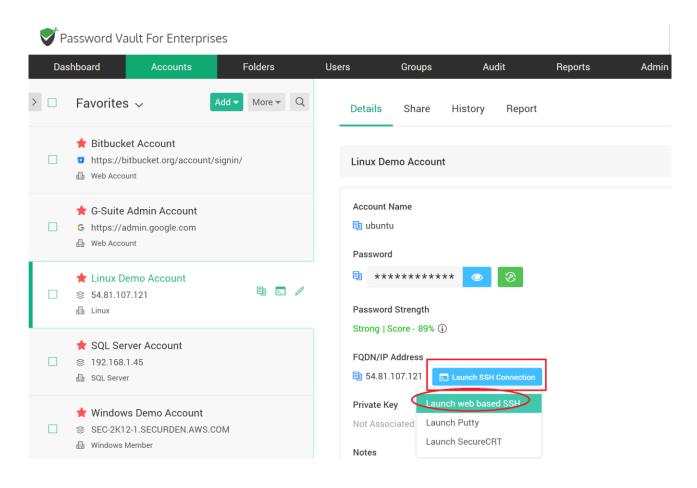
You can open direct remote connections with Windows, Linux and other devices from Securden GUI. This feature helps you can grant your remote workforce, including IT administrators, and third-party technicians secure administrative access to internal IT assets that are kept behind corporate firewalls.

You can eliminate the need for VPN and enable them to launch web-based connections or by using native client applications. The choice of web-based connection is available for RDP and SSH. Native client application support is offered for all RDP, SSH (PuTTY, SecureCRT), and SQL connections.

#### 3.1 Web-based Connections

Web-based remote connections support (RDP and SSH) is readily available. There are no pre-requisites for this option. Users can launch connections using a web-browser without installing anything on their machines.

To launch web-based RDP, SSH connections, select the required account and click "Launch RDP Connection" or "Launch SSH Connection" and then choose the web-based option.



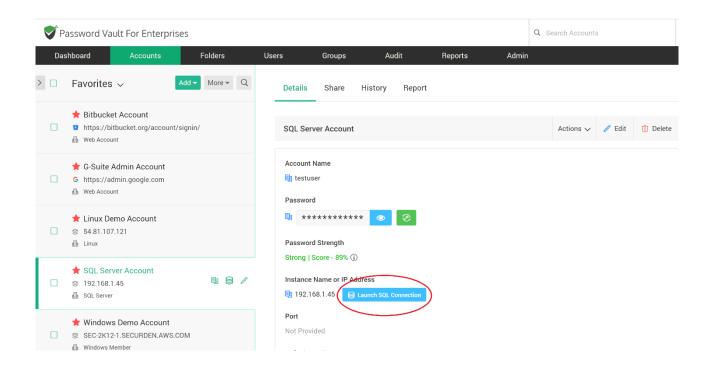
#### 3.2 Using Native Client Applications

To use native client applications for SSH (PuTTY, SecureCRT etc.) and SQL, you need not install any pre-requisite software. For RDP connections, a light-weight launcher application has to be installed in all the end-user machines.

Launcher for RDP Connections: As mentioned above, to launch RDP connections, you need to install a light-weight launcher called 'Securden Remote Launcher' on all the machines from where you/your users would be connecting to Securden web-interface. The launcher can be downloaded and installed from Admin >> Installers for Remote Sessions >> Windows Remote Launcher.

**To launch RDP connection**, navigate to **Accounts** section in the GUI, **click the required account**, click the **'Launch RDP Connection**' icon appearing alongside the account information on the left hand side.

**To launch SSH connections**, navigate to **Accounts** section in the GUI, **click the required account**, click the **'Launch SSH Connection**' icon appearing alongside the account information on the LHS. (As mentioned earlier, SSH connections don't require installation of remote launchers).



**To launch SQL connections**, navigate to **Accounts** section in the GUI, **click the required account**, click the **'Launch SQL Connection**' icon appearing alongside the account information on the LHS.

#### 3.3 Auto-fill Credentials on Websites

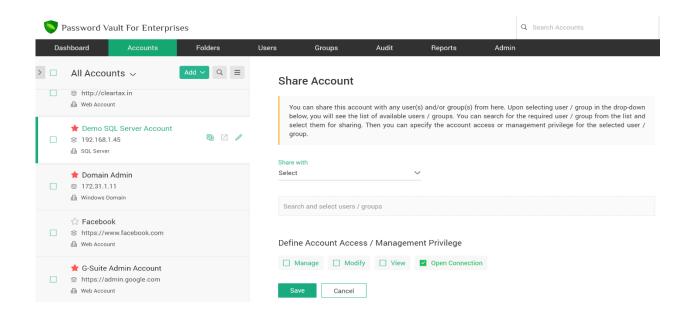
**Pre-requisite:** Securden provides browser extensions to facilitate auto-fill of credentials on websites and web applications. Securden browser extensions are now available for Chrome, Firefox and Edge. The installation instructions and how to work with the extensions are available <u>in this document</u>. (Auto-fill will not

work if browser extension is not installed).

To auto-fill credentials / automatically login to a website, navigate to **Accounts** section in the GUI, **click the required account**, click the '**Open URL**' icon appearing alongside the account information on the LHS.

# Step 4: Share Accounts with Users/Groups

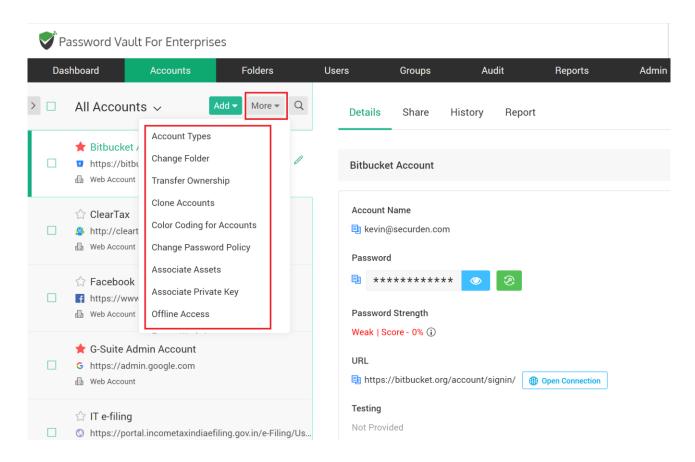
You can share an individual account with any user(s) and/or user group(s). To share a single account, navigate to **Accounts** section in the GUI, **click the required account**, click the **'Share**' tab in the right pane and then follow the instructions in the GUI.



You can share an account with the following share permissions:

- '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 similar to concurrent ownership.

# Step 5: Explore Features Under 'More Actions'

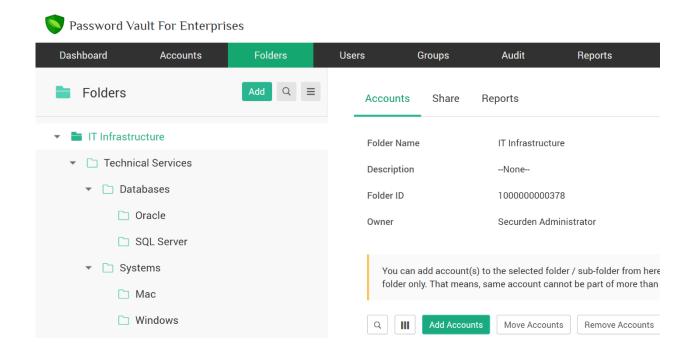


The 'More' drop-down in 'Accounts' tab contains a good number of features such as provision to transferring ownership of accounts, creating clones of existing accounts, establishing color coding for accounts for easy identification, associating SSH private keys with accounts, exporting data for offline access, provision to delete accounts and a lot more.

Navigate to **Accounts** >> **More Actions** in the GUI to explore these features.

# **Step 6: Organize Accounts by Creating Folders**

You can organize the accounts in Securden by grouping them as folders for easy and efficient management. At any point of time, a specific account could remain a member of one folder only. That means, same account cannot become a member of multiple folders.



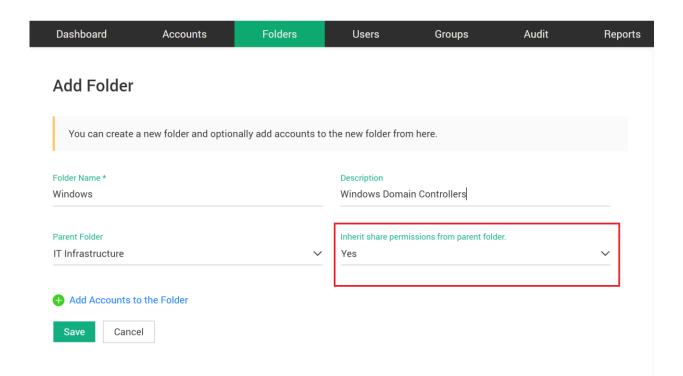
If you structure the folders in Securden to reflect your organizational hierarchy, you will be able to easily achieve permissions inheritance. Navigate to **Folders** >> **Add Folder** in the GUI to perform this step.

# Step 7: Share Folders with Users/Groups

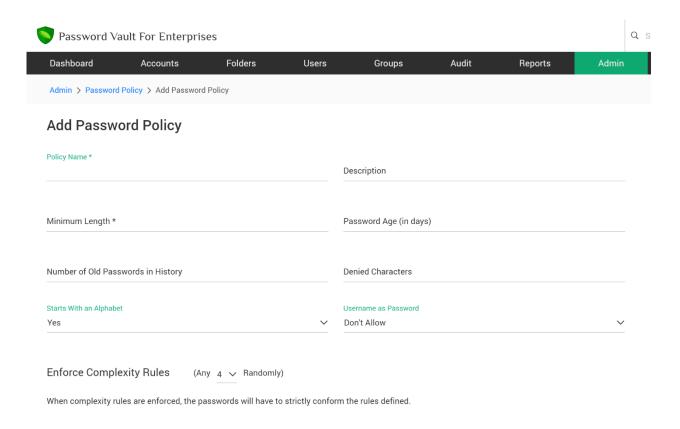
You can share an entire folder or a sub-folder with any user(s) and/or user group(s). When you share the folder, all the accounts that are part of the folder get shared. To share a folder, navigate to **Folders** section in the GUI, **click the required folder**, click the **'Share**' tab in the right pane and then follow the instructions in the GUI.

#### Sharing a folder along with its sub-folders - Permissions inheritance

If you want to share a folder along with any/all of its sub-folders, you need to take care of permissions inheritance from the parent folder. Sub-folder sharing in Securden is handled through permissions inheritance. Sub-folders can inherit share permissions from the parent folder. While creating the sub-folders, you need to select "yes" for the field "inherit share permissions from parent folder".



# **Step 8: Create and Enforce Password Policy**



Security best practices recommend usage of strong, unique passwords for every account. Password policy in Securden helps you define the strength, complexity

requirements, periodicity for password resets and other conditions. Securden password generator will generate passwords as per the policy defined.

Navigate to **Admin >> Account Management >> Password Policy** in the GUI to create password policies.

After creating a policy that suits your requirements, you can set that policy as the default policy for your organization from **Admin** >> **Account Management** >> **Password Policy** >> **Set As Default Policy** section in the GUI.

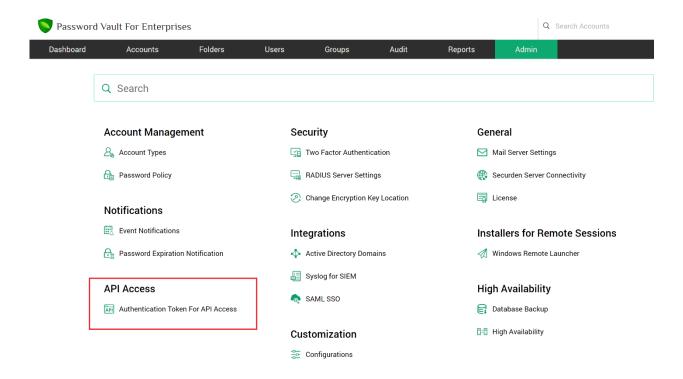
In addition, you can enforce password policies at 'Account Types' level. Each account type can have a different password policy. You can also enforce password policy validation during account addition Admin >> General >> Configurations >> Password Policy section.

When you do so, Securden will allow only the accounts that conform to the policy defined. You can make use of the password generator to generate strong passwords, apply them to the respective websites first and then update the Securden Vault.

# Step 9: Application Password Management using APIs

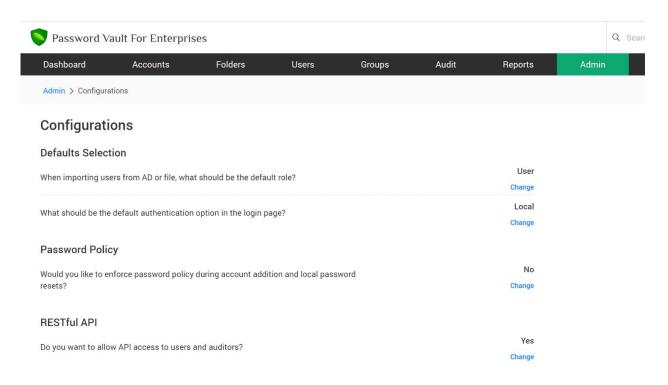
Securden provides APIs for application-to-application and application-todatabase communication. APIs can be used to connect to Securden and fetch the required data automatically.

Navigate to **Admin** >> **API Access** >> **Authentication Token for API Access** to start using the APIs. Refer to the <u>API reference guide</u> for information on making use of the APIs.



# **Step 10: Customize the Features**

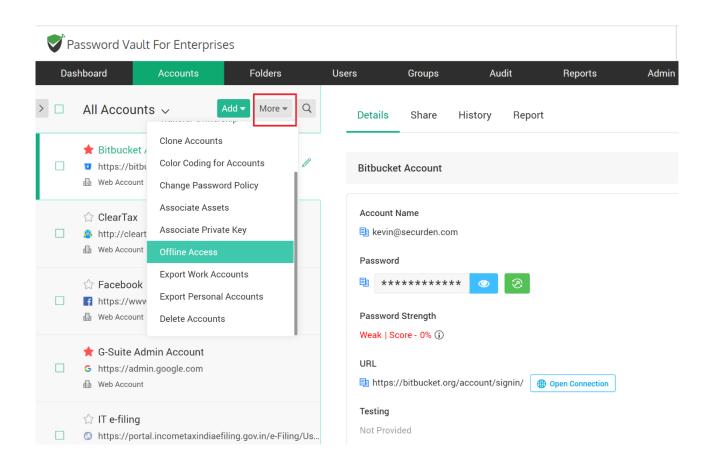
You can customize the features of Securden in a granular manner. You can switch on and switch off certain features anytime as desired. Navigate to **Admin** >> **Customization** >> **Configurations** section to exercise the customization options.



# **Step 11: Configure 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 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.

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. Navigate to **Accounts** section in the GUI, from "**More Actions**" (three vertical lines icon in the LHS), click the '**Offline Access**' option and then follow the instructions in the GUI.

# Step 12: Secure Access over the Internet (Restricted Access to Securden interface for Remote Employees over Internet)

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. Basically, this requires adding to the browser either a valid CA-signed certificate (.p12 or .pfx or .keystore) or a private keypair generated by Securden in .pfx format. Only those users who possess the certificate will be able to access Securden.

Navigate to Admin >> Restricted Access Over the Internet >> Certificatebased Authentication section for details.

# **Step 13: Configure 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 events for which you want to receive notifications. The notifications can be triggered real-time or as one consolidated email once a day.

Navigate to **Admin >> Notifications >> Event Notifications** section to configure notifications. Similarly, you can configure password expiration notifications. Based on the password age set as part of password policy,

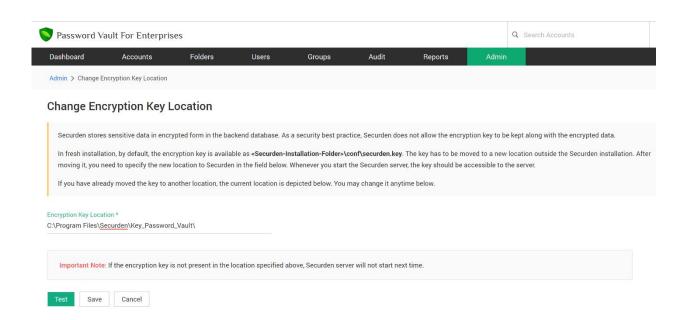
Securden sends timely notifications reminding about password expiration.

# Step 14: Change the Encryption Key Location

Every installation of Securden is guarded by a unique encryption key. In a fresh installation for evaluation purposes, by default, the encryption key is available as <Securden-Installation-Folder>\conf\securden.key.

The key has to be moved to a new location outside the Securden installation folder as Securden doesn't allow the encryption key and the encrypted data to be kept together. Securden enforces this once you apply the registered license key and move to production. It is recommended to move the key even during the evaluation process.

After moving the key to a new location, you need to specify the new location in the GUI. Whenever you start the Securden server, the key should be accessible to the server. Otherwise, the server won't start and you won't be able to access the passwords. You can manage the key location from **Admin** >> **Security** >> **Change Encryption Key Location**.

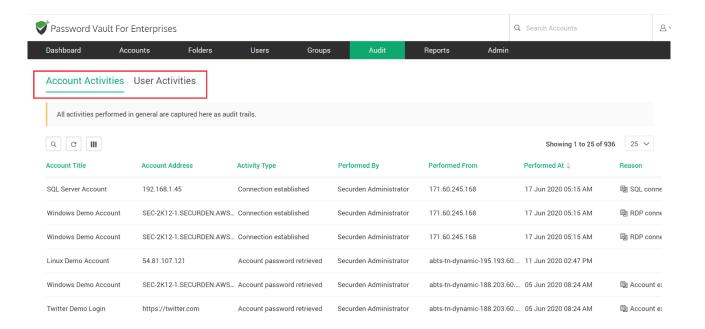


# **Section 4: Audit Trails, Reports**

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.

#### 4.1 Audit Trails

To view the audit trails, navigate to the '**Audit**' tab in the GUI. The trails are classified into two categories – account activities and user activities. Account activities capture the activities on the accounts. User activities capture the activities of the users.



## 4.2 Explore Reports

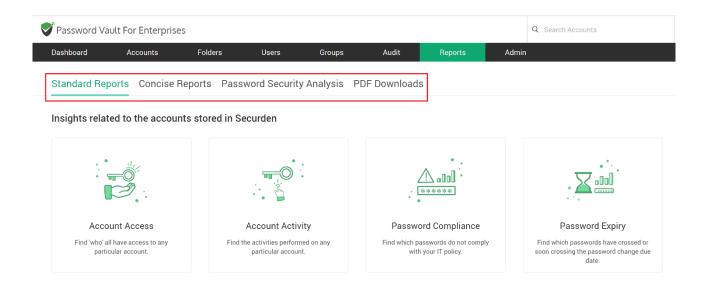
Reports are classified into three categories – standard reports, concise reports, and security analysis report. All the reports can be downloaded in the form of PDF.

#### **Standard Reports**

Standard reports provide a detailed reporting on a specific topic. For example, 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.

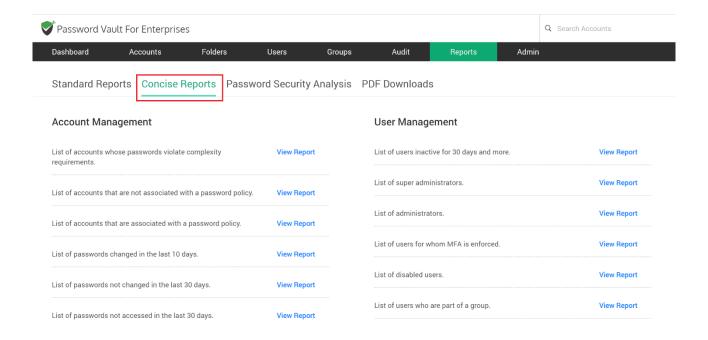
Other reports in this section include:

Account Access Report (list of users who have access to a particular account), Account Activity (list of activities on a specific account), User Activity (list of activities of a specific user), Password Compliance (whether stored passwords comply to the organization's IT policy), Password Expiration Report (information on the passwords that are due for changing, the ones already expired etc.).



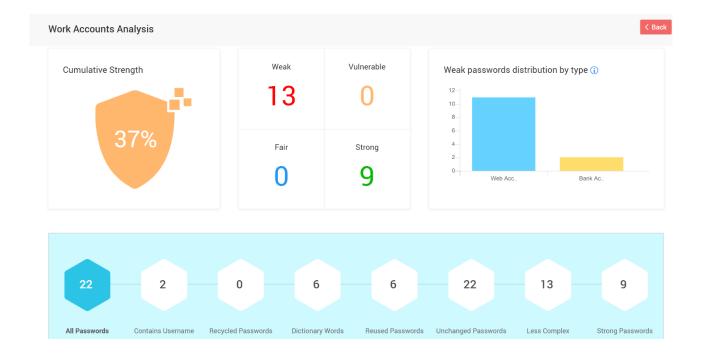
#### **Concise Reports**

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.



#### **Password Security Analysis Report**

Securden carries out a comprehensive analysis of various passwords used 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 security analysis report is provided separately for work and personal accounts.

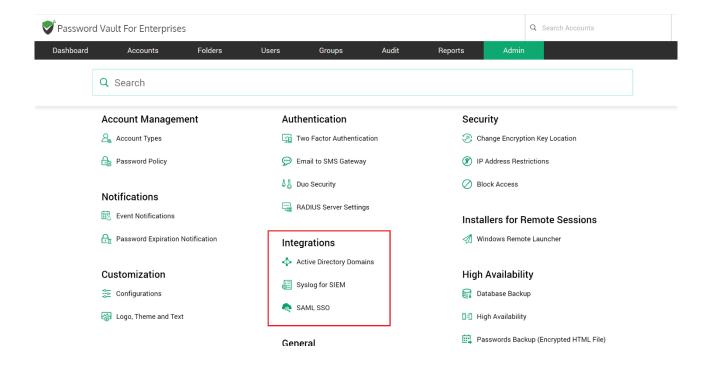


# **Section 5: Integrations & Security Aspects**

Securden readily integrates with various enterprise infrastructure and also offers a good number of options to add additional layers of security.

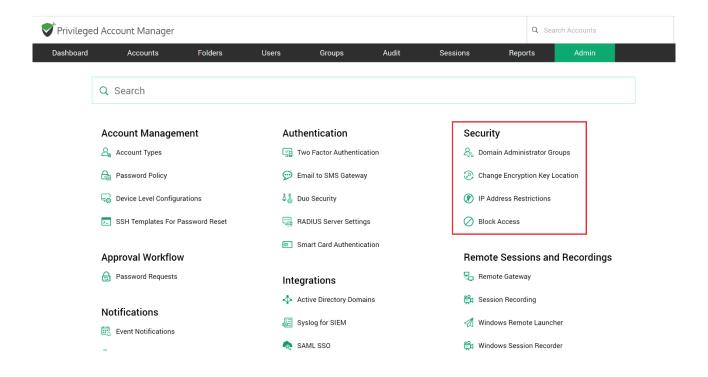
# 5.1 Integrations

To explore integrations, navigate to **Admin >> Integrations**. You will find the steps to integrate with SIEM solutions, and SAML-based Single Sign On solutions.



# **5.2 Additional Security Aspects**

To explore the additional security aspects, navigate to **Admin** >> **Security** section. You can monitor the changes happening to Windows domain administrator groups, establish IP-based restrictions for accessing Securden web-interface, and control/block access to Securden through browser extensions and APIs.



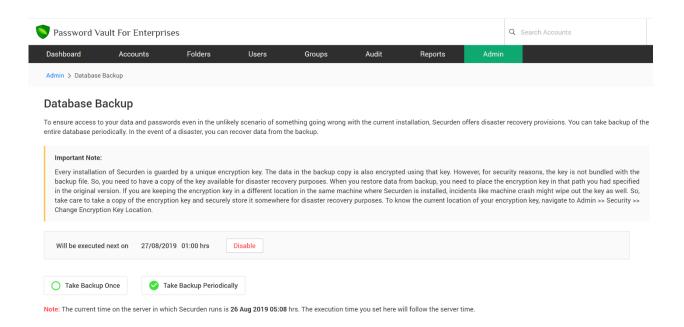
# Section 6: Database Backup, Disaster Recovery and High Availability

# 6.1 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. In the event of a disaster, you can recover data from the backup.

Securden allows you to specify the "Backup Destination". You may give the network path of a remote machine, where the backup copy will be stored. The periodicity could be as low as one hour and you may decide to maintain x number of past backup copies.

Navigate to **Admin >> High Availability >> Database Backup** in the GUI to perform this.



**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 placed under **<Securden-Installation-Folder>/conf/securden.key**.

In production instances, Securden doesn't allow the encryption key and encrypted data to reside together. It has to be moved to some other location. Every time when you start Securden server, the key should be available in the path specified. 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.

# **6.2 Disaster Recovery**

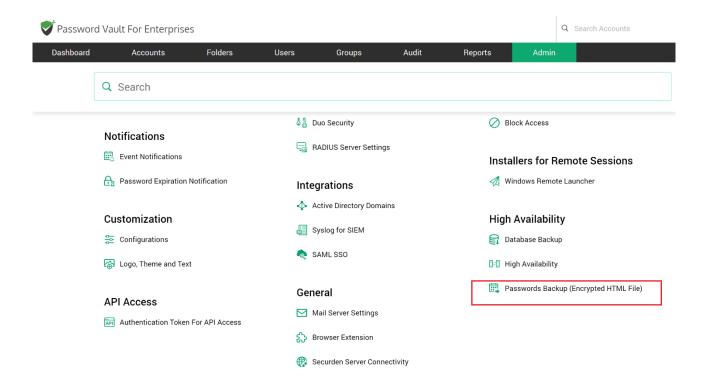
#### Steps to restore data from backup copy

If you want to test how data restoration works, take a copy of the entire Securden installation folder and keep it in a secure location.

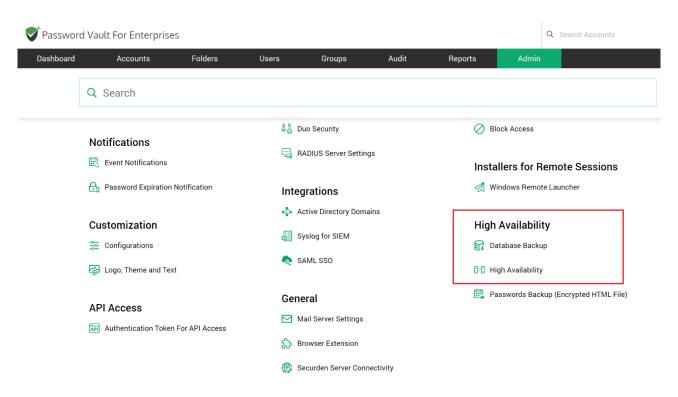
- Install the product in another machine **without disturbing the existing version** (if you are using Securden versions prior to 6.2.2, the product version of the restoration copy should be the same as the backup product version. From v 6.2.2 onwards, this restriction has been removed. If you are using previous versions, write to Securden support to get the required product version).
- Stop the Securden server
- Open a command prompt with admin privilege and navigate to <Securden-Installation-Folder>/bin folder
- Execute RestoreDatabase.exe <enter the full path of the backup file>
   Example: RestoreDatabase.exe C:\Program
   Files\Securden\Password\_Vault\exports\PostgreSQL\_Backups\Securden\_postgresql\_db\_backup\_2019-05-22-11-48-22.zip
- The backup copy also shares the same encryption key as that of the original copy. Ensure that the encryption key is available in the location as specified in the current version (you may identify the current location of the encryption key from Admin >> Change Encryption Key file)
- Start Securden Vault Service (You may safely ignore the other service named Securden Web Service, which is automatically taken care of).

# 6.3 Periodic Backup of Passwords as Encrypted HTML

As an additional backup option, Securden allows **Super Administrators** to create a scheduled task for taking a backup of all work accounts in the form of an encrypted HTML file. When configuring the schedule, a passphrase has to be provided, which will be used as the encryption key. Whenever the backup copy is to be viewed, passphrase has to be supplied. Without the passphrase, the backup copy cannot be opened. The encrypted HTML file can be stored in a secure, remote location.



# 6.4 Configure High Availability



To ensure uninterrupted access to accounts and passwords, Securden comes with high availability architecture. This is achieved by deploying another application server, which would serve as the secondary server. In the event of

the primary server going down, users can connect to the secondary server.

Navigate to **Admin** >> **High Availability** in the GUI to configure High Availability.

**Note**: You can configure any number of additional application servers and deploy them in different locations. If you are using MS SQL server as the backend database, you can make use of SQL clusters.

### **Section 7: Miscellaneous**

# 7.1: Explore Mobile Apps

Securden offers native apps for iOS and Android. You may download the apps directly from the AppStore/Play Store.

## 7.2 Replacing Self-Signed Certificate

By default, Securden comes bundled with a self-signed certificate. You can add your own CA signed certificate by following the steps below. Basically, Securden requires the certificate and the private key.

If you have the certificate in **.pfx** format, follow the steps below:

#### Step 1: Download OpenSSL (if you don't have that installed already)

Download OpenSSL from <a href="http://www.slproweb.com/products/Win32OpenSSL.h">http://www.slproweb.com/products/Win32OpenSSL.h</a>
<a href="mailto:tml">tml</a>
<a href="mailto:Make">Make</a> sure the 'bin' folder under the OpenSSL installation is included in the 'PATH' environment variable.

#### Step 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.

#### Step 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

#### Step 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 a SSL certificate and a private key.

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

#### Step 6: In services.msc, restart Securden Vault Service

This replaces the self-signed certificate with your certificate.

# 7.3 (Optional): Change 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 Vault 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 Vault 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 <a href="https://<local-host>:5454">https://<host-name>:5454</a>
- Clear browser cache

# 7.4 Single Sign On: Federation with Identity Providers

Securden leverages SAML 2.0 to integrate with SAML-compatible federated identity management solutions like Okta, G Suite, Microsoft ADFS, OneLogin, PingIdenity, Azure AD SSO and others for Single Sign On.

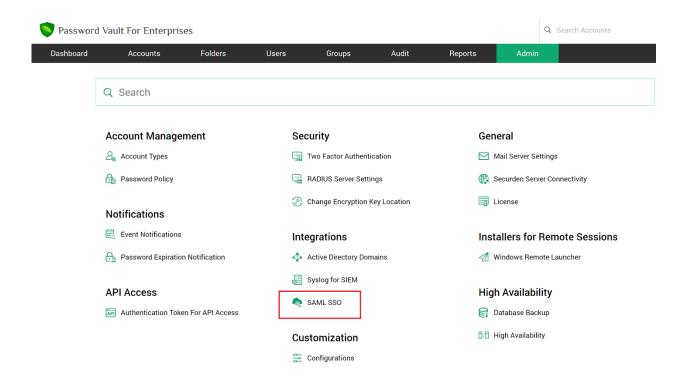
Securden serves as the SAML Service Provider (SP) and it integrates with SAML Identity Providers (IdP). Once this is done, users who login to solutions like Okta (IdP), will be automatically logged in to Securden. The IdP and Securden exchange validation details in the background. Steps below involve providing details about the SP to the respective IdP:

**Step 1:** Add Securden as an application in the IdP (Okta, OneLogin etc.)

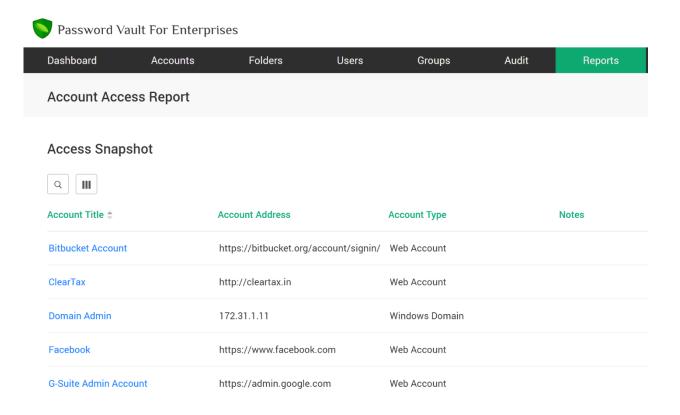
Step 2: Configure IdP's details in Securden

**Step 3:** Provision Securden access to users in IdP

Navigate to **Admin >> Integrations >> SAML SSO** to integrate Securden with any of your SAML 2.0 identity provider.



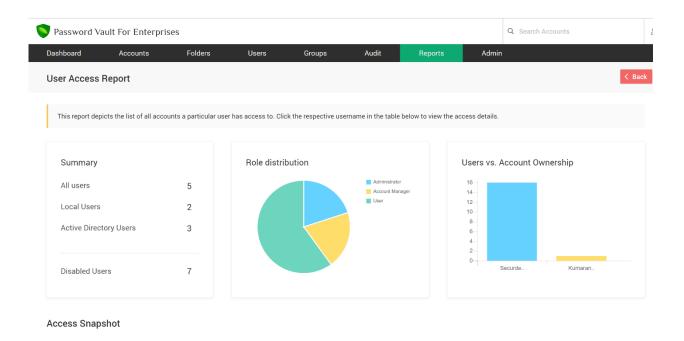
### 7.5 Track 'Who' has access to 'What'



Securden provides two types of reports for this purpose – Account Access Report and User Access Report.

**Account Access Report** depicts the list of all users who have access to a particular account.

**User Access Report** depicts the list of all accounts a particular user has access to.



Navigate to 'Reports' tab to access these reports. 'Audit' tab provides finer details of user and account activities.