



BeyondTrust

Password Safe Saviynt Integration Guide

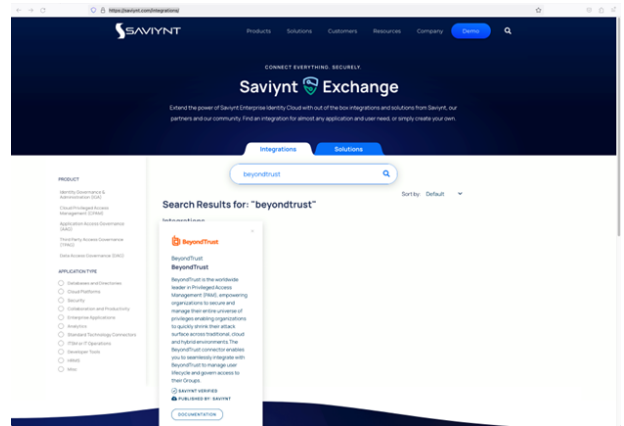
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Saviynt and Password Safe Integration Guide

Saviynt is cloud-based security software that allows users to streamline data governance and automate identity management. Saviynt integrates with BeyondTrust to manage user lifecycles and govern access to their groups.

Before integrating Password Safe with Saviynt, you must configure an Saviynt service account and a connector in BeyondInsight, as detailed in the below sections.



i For more information, please see [Saviynt Featured Integrations at https://saviynt.com/integrations/](https://saviynt.com/integrations/) and search for "BeyondTrust".

Configure the Saviynt Service Account

Creating an Saviynt service account in BeyondInsight requires the following steps:

- Create a user group.
- Enable features and Smart Groups for the user group.
- Create a user account and add it to the user group.
- Generate OAuth credentials for the newly created Saviynt service account using the SCIM connector in BeyondInsight.

The below sections detail the steps to take to accomplish the above.

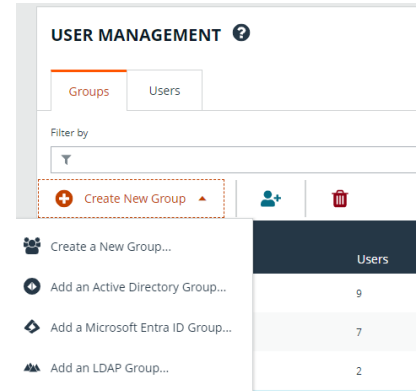
Note: This integration is based on SCIM 2.0.

Create a New Group for the Service Account


To create a local group in BeyondInsight, follow the below steps:

1. Navigate to **Configuration > Role Based Access > User Management**.

2. From the **Groups** tab, click **+ Create New Group**.



3. Select **Create a New Group**.
4. Enter a **Group Name** and **Description** for the group.
5. Click **Create Group**.
6. Follow the steps in the below sections to enable features and Smart Group for your newly created group.

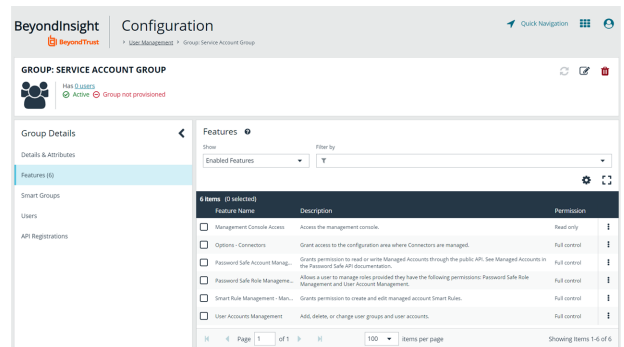
 **Note:** In addition to creating groups locally, you can import Active Directory, Entra ID, and LDAP groups into BeyondInsight.

Enable Features for the Group

To enable features for a group in BeyondInsight, assign permissions to the features as follows:

1. Go to **Configuration > Role Based Access > User Management**.
2. From the **Groups** tab, find the group and click on the corresponding ellipsis to right of the group.
3. Select **View Group Details** from the list.
4. Click **Features** located under **Group Details**.
5. Select **All Features** from the **Show** dropdown above the grid to display a list of features in the grid.
6. Select the **Management Console Access** feature and click **Assign Permissions > Assign Permissions Read Only** above the grid. This permission is required so the service account can log in to BeyondInsight and obtain the service accounts' unique OAuth credentials.
7. Select the following features and click **Assign Permissions > Assign Permissions Full Control** above the grid.

- **Options - Connectors:** This feature is required to allow the creation of OAuth credentials by the member account. In production, this permission could be removed after connection is established, but is needed again to cycle **client_secret** and **refresh_token**.
- **Password Safe Account Management:** This feature is required to read or write managed accounts through the public API.
- **Password Safe Role Management:** This feature is required to allow visibility into account Smart Groups, which are



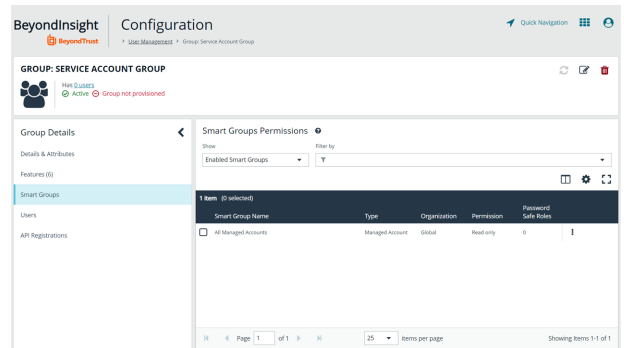
assigned via user groups in BeyondInsight.

- **Smart Rule Management - Managed Account:** This feature is required to manage Smart Rules for managed accounts.
- **User Accounts Management:** This feature is required for the service account to manage user groups and user accounts.

Enable Smart Groups for the Group

To enable Smart Groups for a group in BeyondInsight, assign permissions to the Smart Groups as follows:

1. Go to **Configuration > Role Based Access > User Management**.
2. From the **Groups** tab, find the group and click on the corresponding ellipsis to right of the group.
3. Select **View Group Details** from the list.
4. Click **Smart Groups** located under **Group Details**.
5. Select **All Smart Groups** from the **Show** dropdown above the grid to display a list of Smart Groups in the grid.
6. Select the **All Managed Accounts** Smart Group and click **Assign Permissions > Assign Permissions Read Only** above the grid.



Note: Managed Account Smart Groups with a category of **Managed Accounts** are visible via the SCIM API. Managed Account Smart Groups with a category of **Platforms** are not visible. However, you can recreate the same Smart Group with a category of **Managed Accounts**.

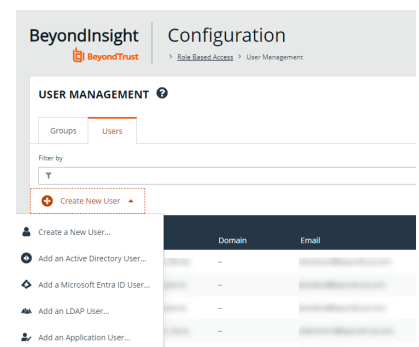
Create a New User and Assign to Group

Once the group is created and assigned the appropriate features and Smart Groups permissions, you can create a new account in BeyondInsight for the service account and add it to the group.

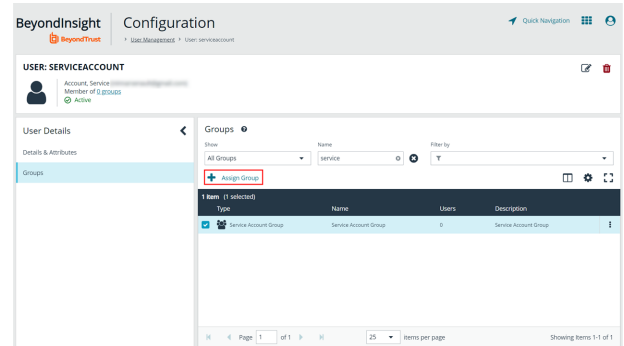


Note: Permissions are assigned only to the group, not to the account.

1. Go to **Configuration > Role Based Access > User Management**.
2. From the **Users** tab, click **Create New User**.
3. Select **Create a New User**.



4. Provide **Identification, Credentials, Contact Information, User Status, and Authentication Options** as needed.
5. Click **Create User**.
6. You are taken to the details page for the user account where **Groups** is automatically selected. Select **All Groups** from the **Show** dropdown above the **Groups** grid to list all available user groups.
7. Locate the group you created above for the service account, select it, and then click **Assign Group** above the grid.



Note: In addition to creating user accounts locally, you can import AD, Entra ID, and LDAP accounts and add them to either local or imported groups.

Create or Update the SCIM Connector to Generate OAuth Credentials

The SCIM connector adds a SCIM API to Password Safe to allow third-party applications to view and modify users, groups, and Smart Rule permissions.



For more information, please see the following:

- SCIM implementations at <http://www.simplecloud.info/>
- The PAM extension at <https://datatracker.ietf.org/doc/html/draft-grizzle-scim-pam-ext-00>

The below steps detail how to create and update a SCIM connector in BeyondInsight.



Note: Only one SCIM connector can be created by Password Safe per instance. If your Password Safe instance already has a SCIM connector configured, then you must log in to BeyondInsight with the service account credentials you created for the integration and generate OAuth credentials as detailed in **step #9** below.

1. In BeyondInsight, go to **Configuration > General > Connectors**.
2. From the **Connectors** pane, click **Create New Connector**.
3. Enter a name for the connector.
4. Select **SCIM** from the **Connector Type** dropdown.
5. Click **Create Connector**.

6. Set the **Refresh Token Expiry**.



Tip: This is intended to be long-lived.

7. Set the **Access Token Expiry**.



Tip: This is intended to be short-lived.



Note: Refresh and access tokens are an OAuth 2.0 concept.

8. Select a **Default Access Policy**, and then click **Create Connector**.



*Note: If the **Requestor** role is assigned to a group via the SCIM API, this access policy is assigned. The API does not support assigning different access policies. The container permissions you can provision include **Read**, **Write**, and **Password Safe** roles, such as **Requester** and **Approver**.*

SCIM

Connector Name

SCIM 

Active

Refresh Token Expiry

Days

Maximum 730
Minutes

Maximum 59

Hours

Maximum 23

Access Token Expiry

Days

Maximum 365
Minutes

Maximum 59

Hours

Maximum 23

Default Access Policy

Default Auto-Approve Access Policy 

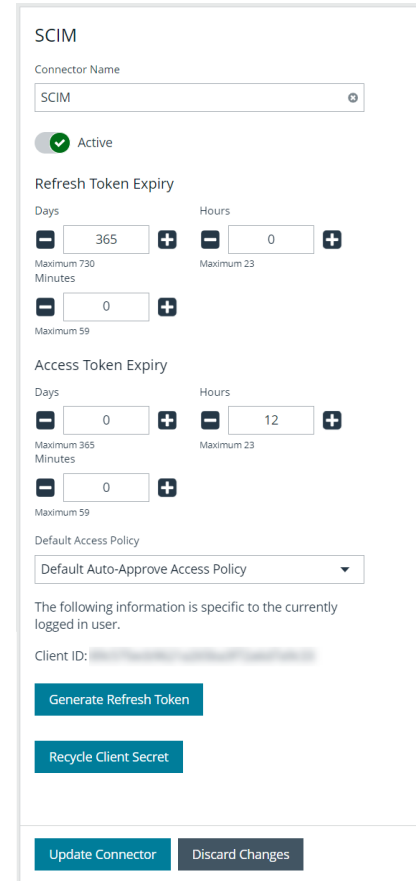
API Client information will be visible after activating and saving the connector

Create Connector

Discard

9. Now that the connector has been created, the API is available to access, and you see the **Client ID** specific to the user currently logged into BeyondInsight when viewing the SCIM connector from the **Connectors** page. You can also generate a refresh token and recycle the client secret as follows:

- To generate a refresh token:
 - Click **Generate Refresh Token**.
 - Enter your **Password** and **Client Secret**.
 - Click **Generate Refresh Token**.
- To create a new client secret key:
 - Click **Recycle Client Secret**.
 - Click **Recycle** on the **Recycle Secret Access Key** pop-up. This generates a unique access key and invalidates the previous key.
- Click **Update Connector** after generating the refresh token or recycling the client secret.



SCIM

Connector Name: SCIM

Active

Refresh Token Expiry

Days: 365 (Maximum 730) | Hours: 0 (Maximum 23) | Minutes: 0 (Maximum 59)

Access Token Expiry

Days: 0 (Maximum 365) | Hours: 12 (Maximum 23) | Minutes: 0 (Maximum 59)

Default Access Policy: Default Auto-Approve Access Policy


The following information is specific to the currently logged in user.

Client ID: [REDACTED]


Generate Refresh Token

Recycle Client Secret

Update Connector **Discard Changes**

 **Note:** Every Password Safe user with full control permissions assigned to the **Options – Connectors** feature can obtain a **Client ID** and **Client Secret** via the connector. Using client credentials (client ID and client secret) is recommended for lab or testing environments. For a production environment, using refresh tokens is a more secure option.

10. To obtain a refresh and access token using the API, you can use client credentials or password authentication. Send a POST request with a body in one of these formats:

 **Note:** The **Client ID** and **Client Secret** are part of your credentials for requesting refresh and access tokens. The authentication endpoint is `[host]/scim/oauth/token`.

Client Credentials:

```
grant_type=client_credentials&client_id=[Client ID]&client_secret=[Client Secret]
```

Password:

```
grant_type=password&username=[Username] &password=[Password]
```


If you already have a refresh token, you can get a new access token with a POST request in this format:

```
grant_type=refresh_token&refresh_token=[Refresh Token]
```



Note: The base URL for non-authentication requests is `[host]/scim/v2`.



For more information, please see [Saviynt Featured Integrations](https://saviynt.com/integrations/) at <https://saviynt.com/integrations/> and search for BeyondTrust.