# Configuring SCIM Provisioning with PingFederate

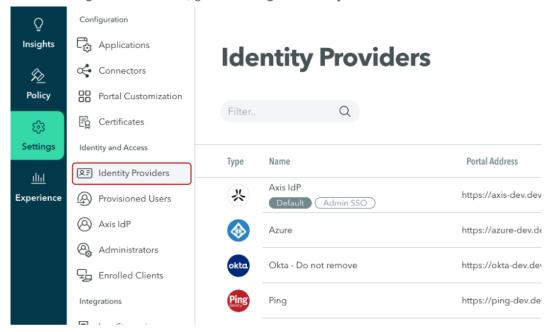
This article describes how to configure SCIM user provisioning with PingFederate as the identity provider. This will allow Axis to continuously synchronize user identity and group information from a user datastore configured in PingFederate.

## **Prerequisites**

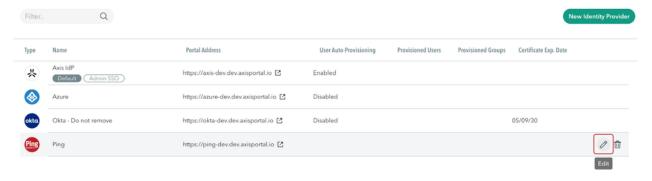
- PingFederate version 9.0 and later.
- The PingFederate server must have:
  - o A configured user datastore where user details and attributes are stored
  - o SCIM Provisioner integration files deployed
  - o Provisioning and single sign-on enabled on the user datastore

# 1. Enabling User Auto Provisioning with PingFederate in the Axis Management Console

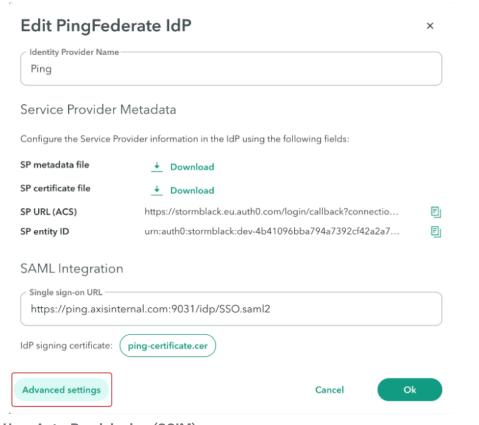
1. In the Management Console, go to Settings-> Identity Providers.



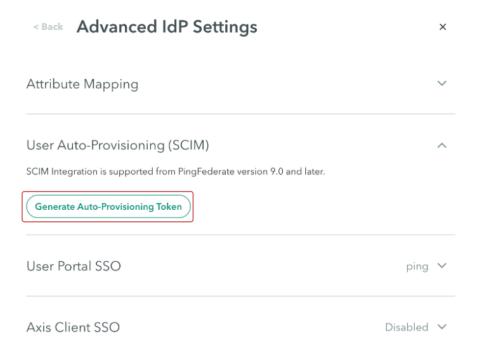
2. Hover over the PingFederate Identity Provider and select edit.



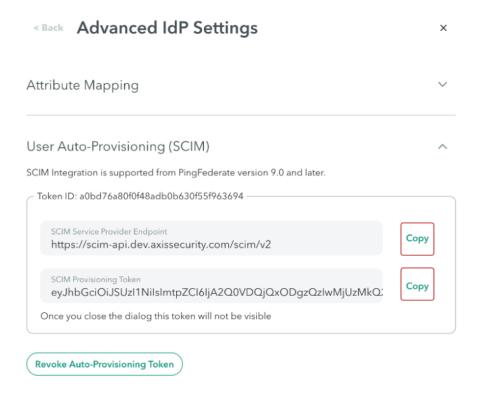
3. Navigate to **Advanced Settings**.



- 4. Go to User Auto-Provisioning (SCIM).
- 5. Click Generate new token.

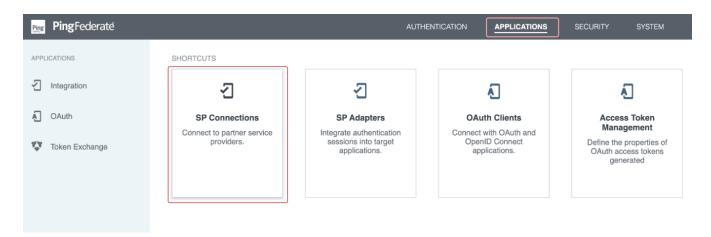


 Copy the SCIM Service Provider Endpoint and SCIM Provisioning Token and paste them into a text editor. You will need these details for Step 2: Creating a PingFederate SCIM Connector.

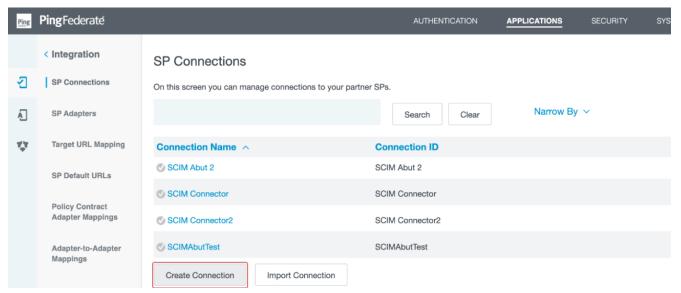


# 2 Creating a PingFederate SCIM Connector

 Log in as an administrator to your PingFederate instance. Select Applications-> SP Connections.

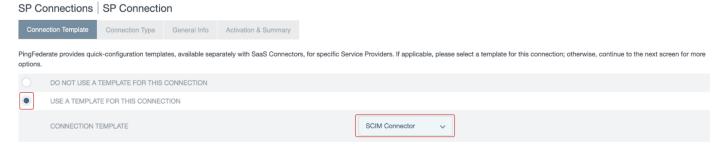


2. Select Create Connection.



On the Connection Template step, select Use a Template for this Connection. From the dropdown list, select SCIM Connector and click Next.

**Note:** If you do not see the **SCIM Connector** option, please refer to the prerequisite section.



- 4. On the **Connection Type** step, ensure that:
  - Outbound Provisioning is selected.
  - The **Type** is set to **SCIM Connector**

#### Click Next.



- 5. On the **General Info** step, provide a descriptive name for the following:
  - o Partner's Entity ID
  - Connection Name

#### Click Next.



6. On the **Outbound Provisioning** step, select the **Configure Provisioning** button.

## SP Connections | SP Connection



- 7. Under the **Target** tab, we will leverage the User Auto-Provisioning (SCIM) values obtained in Step 1:
  - Paste the SCIM Service Provider Endpoint in the SCIM URL field.
  - Paste the SCIM Provisioning Token in the Access Token field.
  - Ensure the SCIM Version is set as 2.0 and the Authentication Method is set as OAuth 2 Bearer Token.
  - Check **USE PATCH FOR GROUP UPDATES**.
  - Click Next

#### SP Connections $\mid$ SP Connection $\mid$ Configure Channels



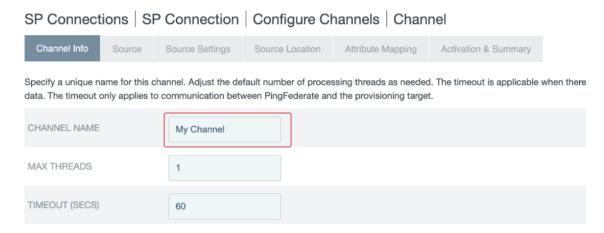
Specify credentials and/or other connection details that PingFederate will use to access the target service provider for outbound provisioning.

Provisioning Target	SCIM Connector		
SCIM URL	https://scim-api.dev.axissecurity.com/scim/v2		
SCIM VERSION	2.0		
SCIM VERSION	2.0		
AUTHENTICATION METHOD	OAuth 2 Bearer Token		
BASIC AUTHENTICATION			
USERNAME	administrator		
PASSWORD			
OAUTH 2 BEARER TOKEN			
ACCESS TOKEN			
OAUTH 2 CLIENT CREDENTIALS			
TOKEN REQUEST ENDPOINT			
CLIENT ID			
CLIENT SECRET			
SCIM OVERRIDES			
UNIQUE USER IDENTIFIER	userName		
FILTER EXPRESSION			
AUTHORIZATION HEADER			
TYPE			
USERS API PATH			
GROUPS API PATH			
GROUPS AFT FAIR			
RESULTS PER PAGE	1000		
PROVISIONING OPTIONS			
	✓ USER CREATE		
	✓ USER UPDATE		
	✓ USER DISABLE / DELETE		
	PROVISION DISABLED USERS		
REMOVE USER ACTION	Disable ~		
GROUP NAME SOURCE	Common Name 🗸		
	✓ USE PATCH FOR GROUP UPDATES		
	GOL PATOR FOR GROUP OF DATES		

8. Go to the Manage Channels table and select Create.



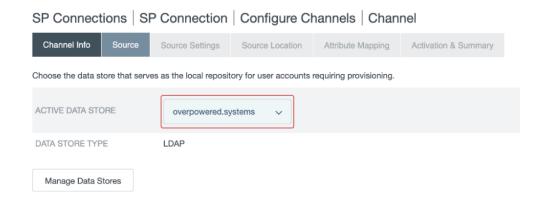
9. In the Channel Info step, add a descriptive name and click Next.



10. Select an **Active Data Store** from the dropdown menu. The selected datastore is where the identity and group information will be synced from.

**Note:** The data store must be <u>enabled for provisioning and single sign-on</u>, as described in the **Prerequisites**.

Click Next.



- 11. In the Source Settings step, keep the default values. Click Next.
- 12. In the **Source Location** step, select the location of the users/groups you want to sync from your active data store.

**Note** that the setup may vary depending on the datastore type. The example below is based on an LDAP datastore. For further information, refer to the <u>PingFederate documentation</u>.

- Set a Base DN
- Set either a **Group DN** or **Filter** for the **Users** and for the **Groups**. The following values are recommended:

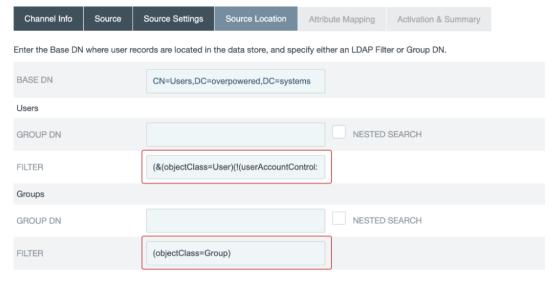
Users		
GROUP DN	(empty)	
FILTER	(&(objectClass=User)(!(userAccountControl:1.2.840.113556.1.4.803:=2)))	

**Note:** The following expression **MUST** be included in the **Users FILTER**: !(userAccountControl:1.2.840.113556.1.4.803:=2)



Click Next.

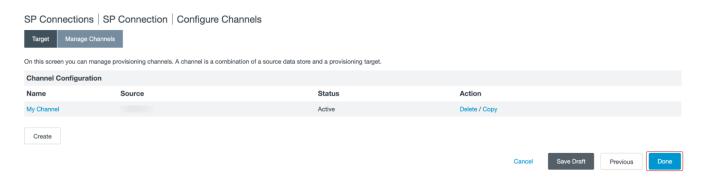
## SP Connections | SP Connection | Configure Channels | Channel



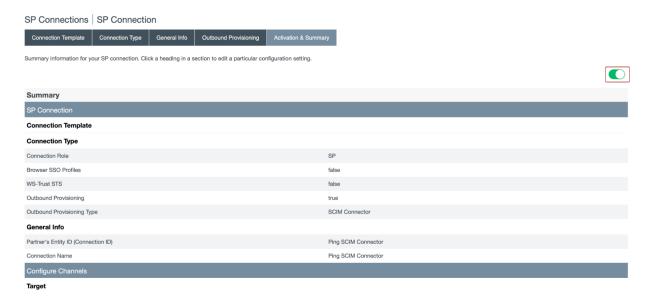
- 13. In the Attribute Mapping step, keep the default settings, and click Next.
- 14. In the **Activation & Summary** step, review the configured settings. Set the **Channel Status** as **Active**, and click **Done**.



15. You will be redirected to the Manage Channels page. Click Done.



- 16. You will be redirected to the Outbound Provisioning step. Click Next.
- 17. On the **Activation & Summary** step, activate the SP Connection in PingFederate by toggling the connection status. Click **Save**.



18. Upon successful completion, the SCIM connector will be listed in the SP Connections page

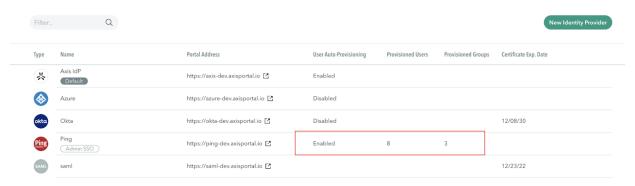
# 3 Verifying the SCIM Provisioning Integration

Provisioning will begin shortly after the SP connection has been activated. Note that the provisioning process can take several minutes to complete.

Log into the Axis Management console and follow the steps below to verify if the SCIM integration working:

• Go to **Settings-> Identity Providers**. In the **Identity Providers** table, the configured PingFederate IdP will now show the number of synchronized users and groups

# **Identity Providers**



 Go to Settings -> Provisioned Users. On the Users tab, verify that the configured users have been synced from your PingFederate Identity Provider.

## **Provisioned Users**



• Select the **User Groups** tab. Verify the configured groups have been synced from your PingFederate Identity Provider.

# **Provisioned Users**

