



JumpCloud SSO & SCIM Guide

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Getting Started

Accessing your user-based license

You can find your new SSO/SCIM User Licensing subscription in My Account:

- Navigate to www.snapgene.com/account
- Log in with your existing credentials
- From the header drop down, select your user based subscription

Preparing SnapGene

In order to follow the below steps to enable your SSO/SCIM configuration, you will need to be using at least version 8.0 (or 8.1 for Ubuntu) of SnapGene, and have deactivated your existing SnapGene activation.

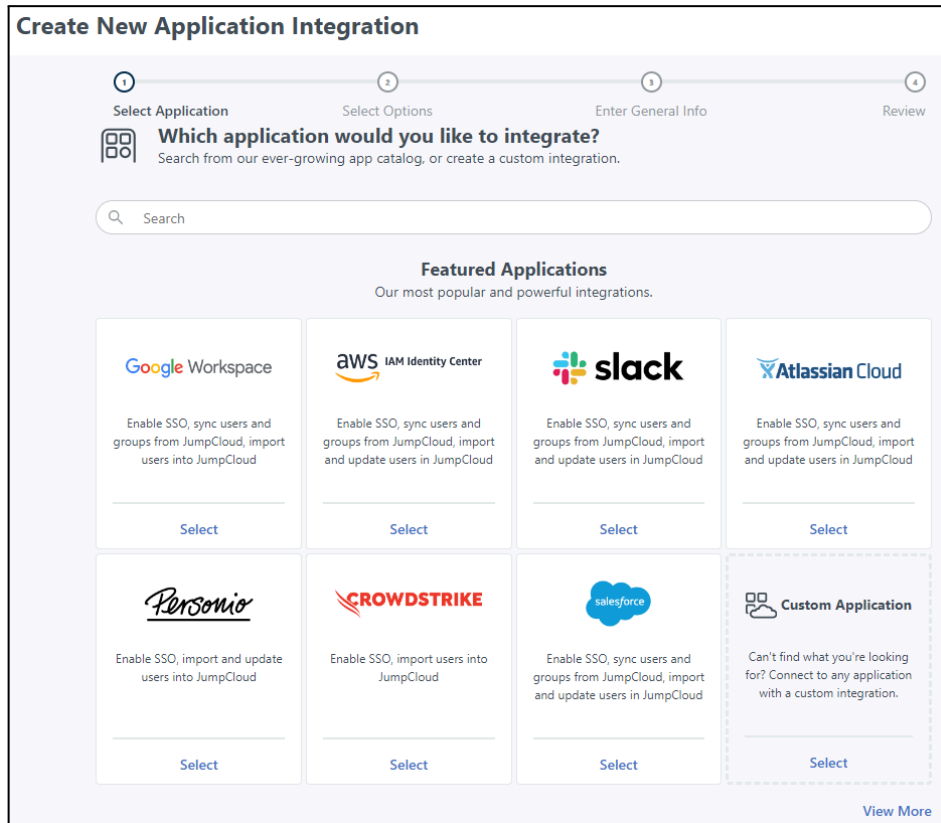
- To download the latest version, visit our [Updates](#) page, or update via the in-app updates feature
- Deactivate your current license by following **Help -> Manage License...**
- Let the SnapGene team know if your deactivation limit needs to be extended
- After deactivation, SnapGene should display the activation screen, or reopen in Viewer mode.
You are now ready to apply your SSO and/or SCIM configuration following the steps below.

JumpCloud Configuration


To use JumpCloud as your vendor, please follow the steps below to configure your application. The first two sections detail instructions for setting up SnapGene as an SSO application in JumpCloud, while the third configures SCIM for identity management.


Creating an Application in JumpCloud

1. From the **SSO Applications** side menu in JumpCloud, select **Add New Application**. From here, select **Custom Application**, and follow the on-screen instructions:



2. Select **Manage Single Sign-On (SSO)** and **Configure SSO with SAML**.
To use JumpCloud as the identity authority for SCIM user provisioning, also select **Export users to this app (Identity Management)**, then click **Next**:

 **Select the features you would like to enable**
 Select all features you would like to enable for your application.
 Need help deciding? [Learn More](#) →


Manage Single Sign-On (SSO) 

Allow users to securely authenticate into this application using JumpCloud.


Select One

Configure SSO with SAML


Configure SSO with OIDC

Import users from this app (Identity Management) 

Import new users and user updates into JumpCloud from this application.


Export users to this app (Identity Management) 

Provision new users and user updates from JumpCloud to this application. JumpCloud will become the authority of the identity. Manage users in JumpCloud and have any changes to identities reflected to this application.

Add a bookmark (no SSO) 

Create a URL bookmark without SSO. If this application does not support SSO, the JumpCloud Password Manager can integrate with any application to secure and streamline the password authentication process.

3. Add the application name and any other display customisation you would like
4. Untick **Show this application in User Portal**
5. Click **Save Application**, then **Configure Application**:

 **Enter general info**
 These details will be displayed to end users unless the option to show in User Portal is unchecked.


Display Label *

Description
 Add a description that users will see if the application is set to show in user portal.

User Portal Image

Logo

Color Indicator



Color Selected: Blue

Show in User Portal

Applications appear in the User Portal for any bound users by default. When deselected, the application will not appear in the User Portal for any users, and any users bound to the application will still be enabled for SSO access.

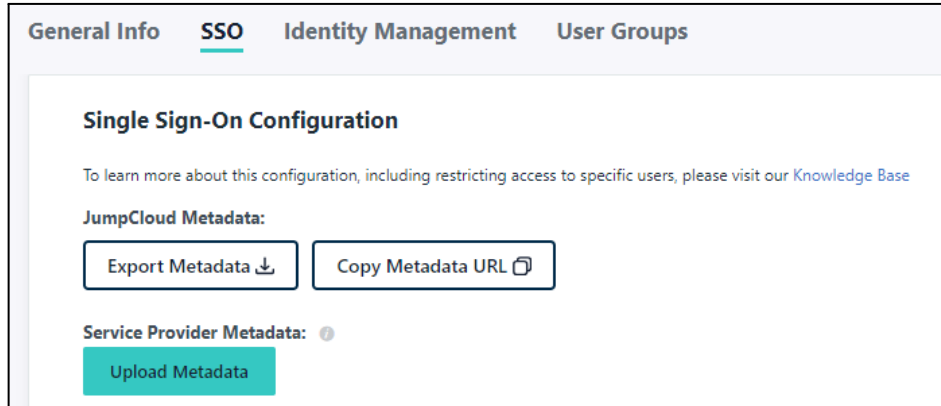
Show this application in User Portal

▼ Advanced Settings

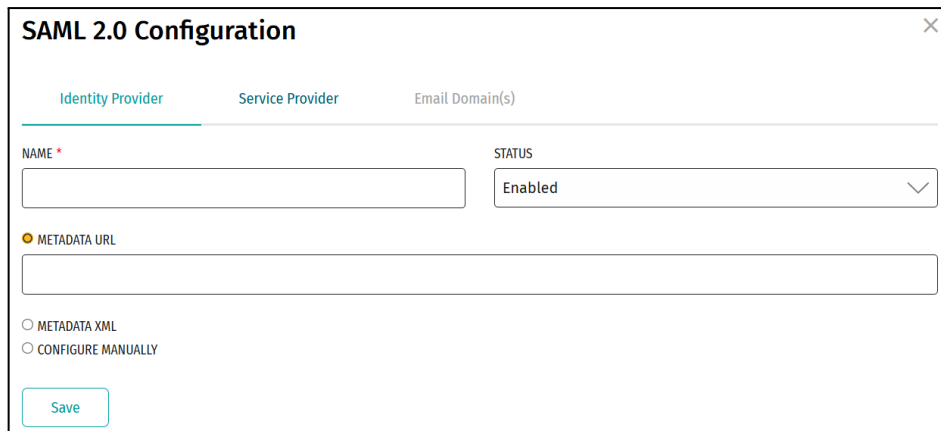
Single sign-on (SSO) Configuration

You'll next be presented with further configuration options in JumpCloud. Before continuing here, you will need to configure SnapGene's [My Account](#), and use information from here to configure JumpCloud.

1. From My Account, select **Manage Seats**, then **Authentication**
2. Add a SAML2 ID Provider
3. Copy the **Metadata URL** from the **SSO** tab in JumpCloud
4. Enter a name e.g. "JumpCloud", and paste in the Metadata URL from JumpCloud. Click **Save**:



The screenshot shows the 'Single Sign-On Configuration' page in JumpCloud. The page has a navigation bar with tabs for 'General Info', 'SSO', 'Identity Management', and 'User Groups'. The 'SSO' tab is selected. Below the navigation bar, there is a section titled 'Single Sign-On Configuration'. A link to the 'Knowledge Base' is provided for more information. Under 'JumpCloud Metadata:', there are two buttons: 'Export Metadata' (with a download icon) and 'Copy Metadata URL' (with a copy icon). Under 'Service Provider Metadata:', there is a teal button labeled 'Upload Metadata'.



The screenshot shows the 'SAML 2.0 Configuration' dialog box. It has three tabs: 'Identity Provider', 'Service Provider', and 'Email Domain(s)'. The 'Identity Provider' tab is selected. The dialog contains the following fields and options:

- NAME ***: A text input field.
- STATUS**: A dropdown menu with 'Enabled' selected.
- METADATA URL**: A radio button that is selected, followed by a text input field.
- METADATA XML**: A radio button that is unselected.
- CONFIGURE MANUALLY**: A radio button that is unselected.
- Save**: A button at the bottom left.

5. Next, we need to provide JumpCloud with SnapGene's details. Switch to the **Service Provider** tab and copy the **Entity ID** and **ACS URL**, and paste these into JumpCloud's **SP Entity ID** and **ACS URL**, respectively. Alternatively, you can upload the XML Metadata file available from My Account
6. Select **emailAddress** as the **SAMLSubject NameID Format**
7. Select **Assertion and Response** as the **Sign**
8. Add two **User Attributes**, and **save**:
 - <http://schemas.xmlsoap.org/ws/2005/05/identity/claims/givenname> - firstname
 - <http://schemas.xmlsoap.org/ws/2005/05/identity/claims/surname> - lastname

SAML 2.0 Configuration

Identity Provider **Service Provider** Email Domain(s)

Use this information to configure your identity provider

ENTITY ID

ACS URL

[Download Certificate \(.cer\)](#)
[Download Metadata \(.xml\)](#)

SP Entity ID:

ACS URLs:

Enter at least one ACS URL. IdP initiated logins will use the first, or lowest index, ACS URL listed. The ACS URL used for SP initiated logins will depend on the authentication request received.

Index	Default URL *
0	https://isapi /acs

SAML Subject NameID Format:

Signature Algorithm:

Sign * Response
 Assertion
 Assertion and Response

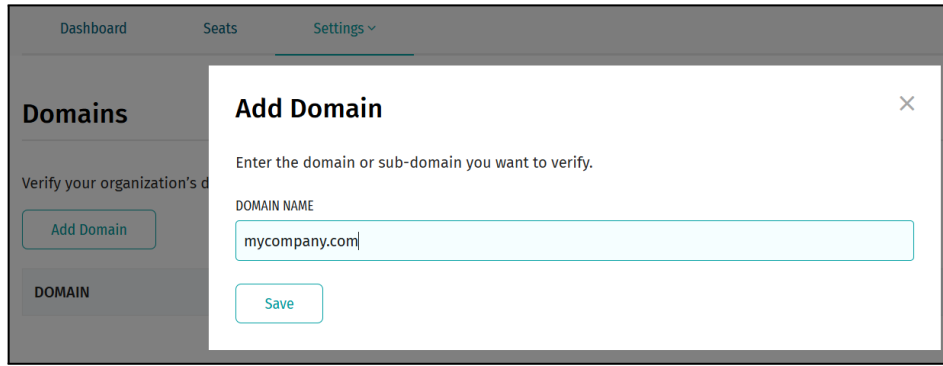
Attributes

If attributes are required by this Service Provider for SSO authentication, they are not editable. Additional attributes may be included in assertions, although support for each attribute will vary for each Service Provider. [Learn more.](#)

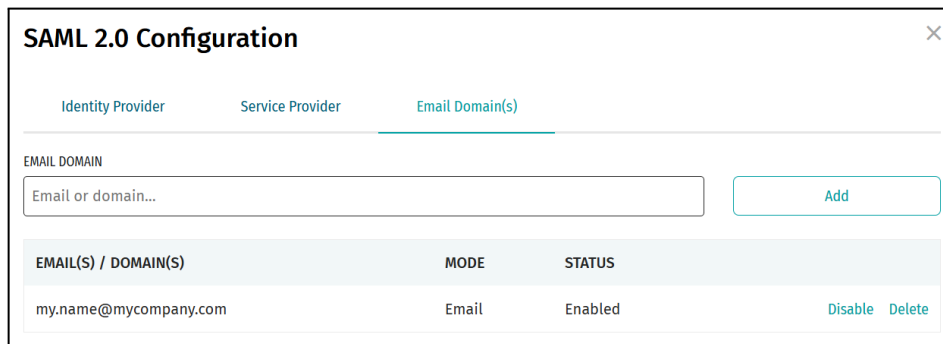
User Attributes:

Service Provider Attribute Name	JumpCloud Attribute Name
<input type="text" value="http://schemas.xmlsoap.org/ws/2005/05/identity/claims/givenname"/>	<input type="text" value="firstname"/>
<input type="text" value="http://schemas.xmlsoap.org/ws/2005/05/identity/claims/surname"/>	<input type="text" value="lastname"/>

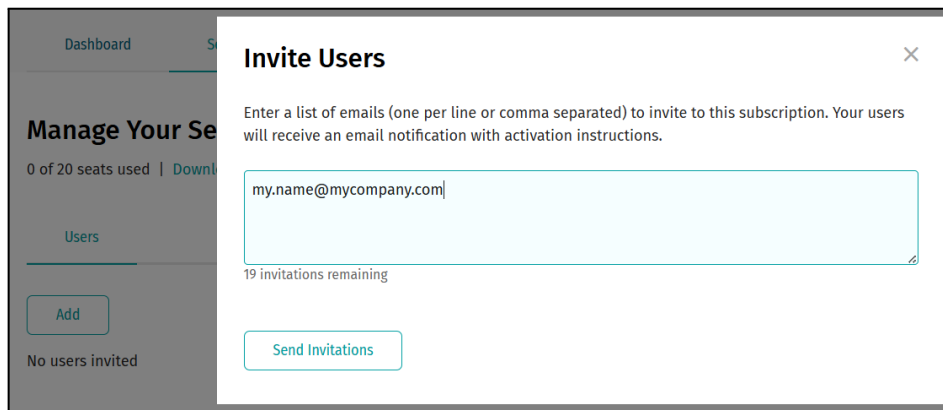
9. Navigate to the **Domains** tab and add the email domain(s) that you wish to be able to use with SSO. Click **Save**:



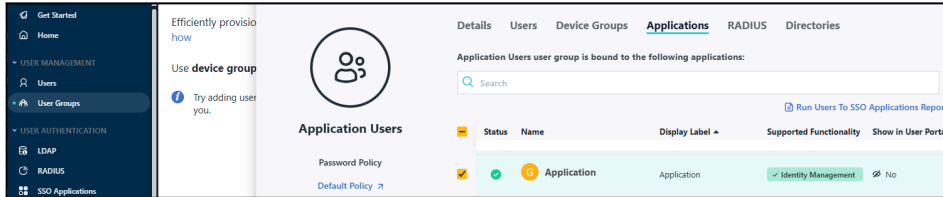
10. You will need to verify ownership of this domain. Click **View** and follow the on-screen instructions to verify this, either by HTML file or DNS TXT record.
11. Once verified, return to the **Authentication** tab, and use the **Email Domain(s)** SAML tab to provide email addresses and/or email domains SSO access to SnapGene. **First, test SSO access with a single email address by adding that email address in full:**



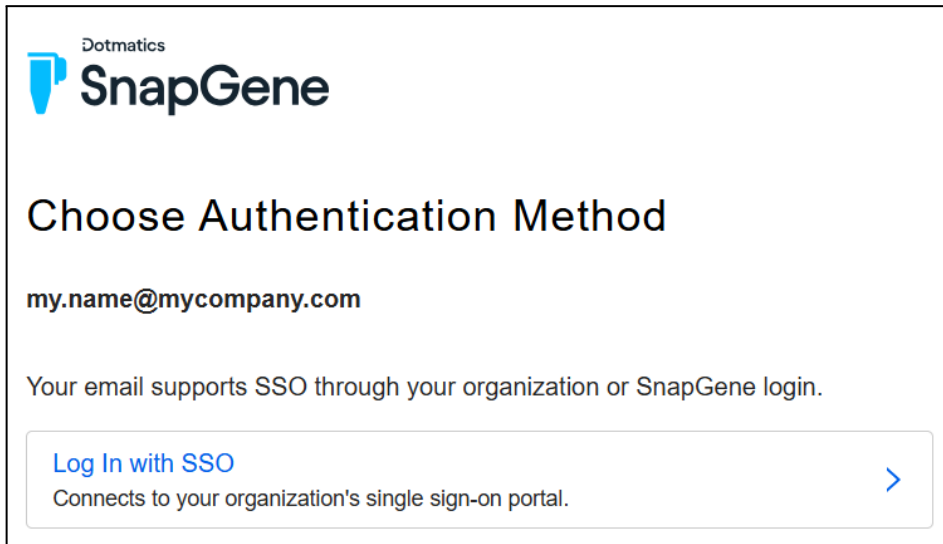
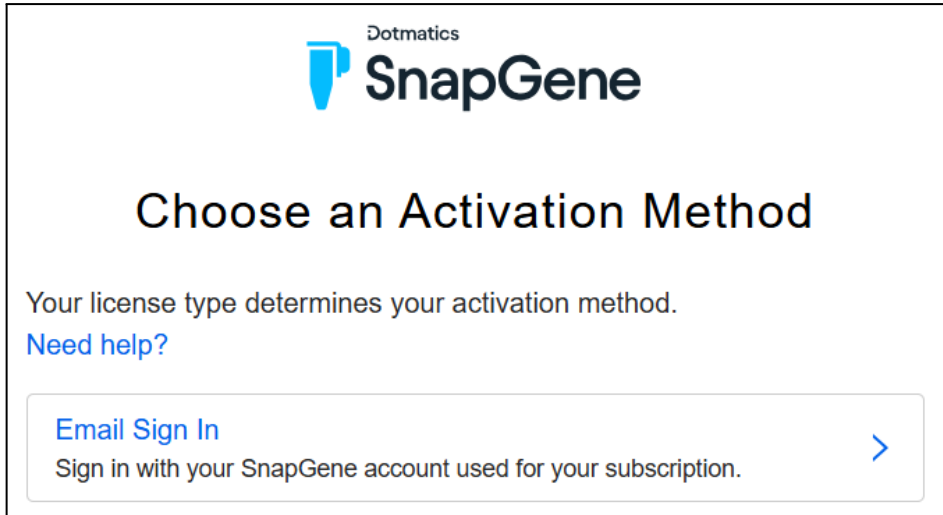
12. If you are using JumpCloud only for SSO, and not SCIM, you will need to invite these user(s) under the **Users** tab in My Account. Otherwise, SCIM users will be provisioned from JumpCloud in the SCIM configuration section later in this guide.

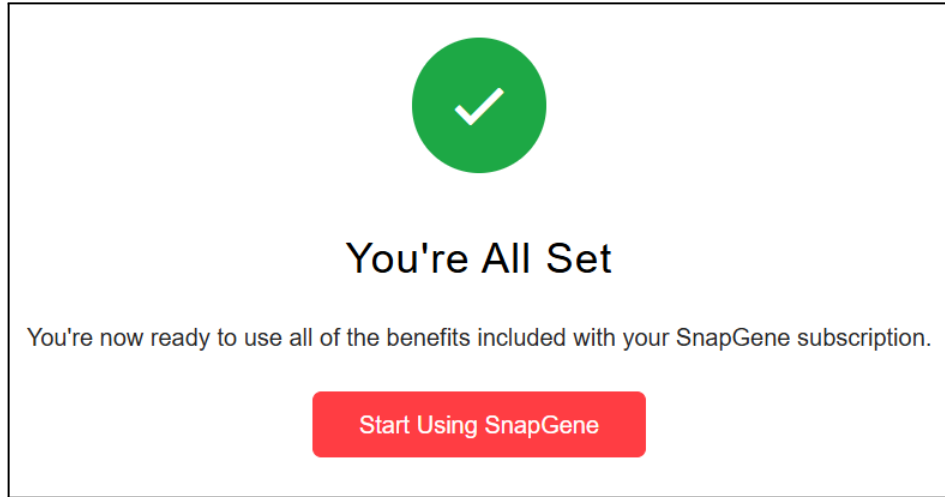


13. If this user does not yet exist in JumpCloud, create them in JumpCloud now. From JumpCloud, assign this user to your application from the Applications tab of the user's User Group. If you are also configuring SCIM, then this process will instead be done later after provisioning has been configured (see the SCIM section of this guide for provisioning users).



14. In the SnapGene application, activate your software, selecting the **Email Sign In** option. Continue through the screens, selecting **Log In with SSO** as your authentication method:





15. Once you have verified that SnapGene activates with this method, and are ready to enable SSO for your entire domain, add the email domain(s) that you wish to use with SSO. Also add the other users in both the **Users** tab of My Account, and in JumpCloud as you have above:

SAML 2.0 Configuration ✕

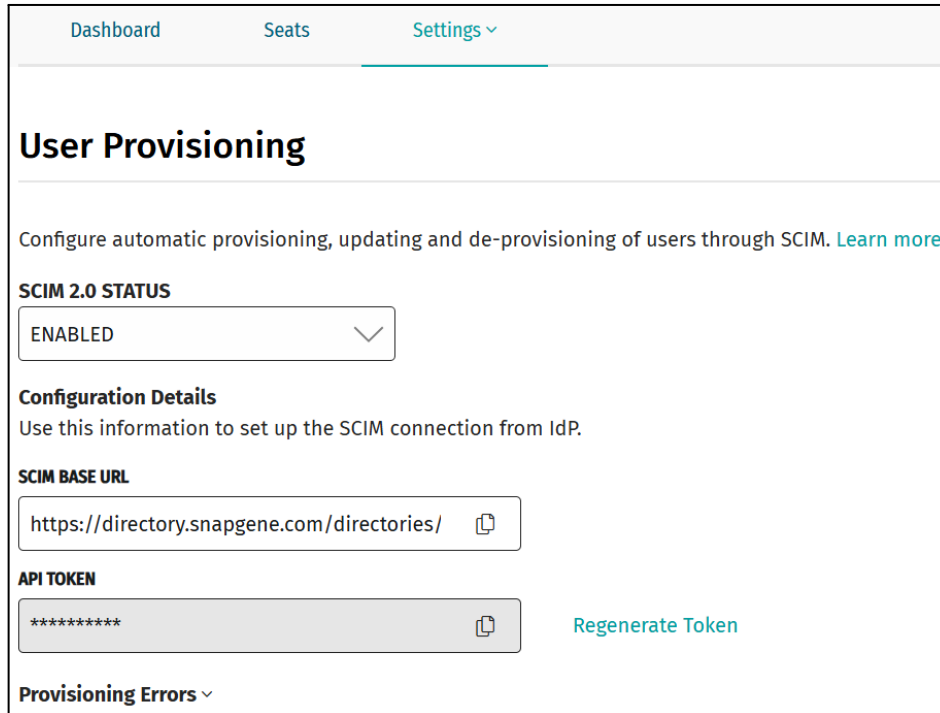
Identity Provider Service Provider Email Domain(s)

EMAIL DOMAIN

EMAIL(S) / DOMAIN(S)	MODE	STATUS	
mycompany.com	Domain	Enabled	Disable Delete

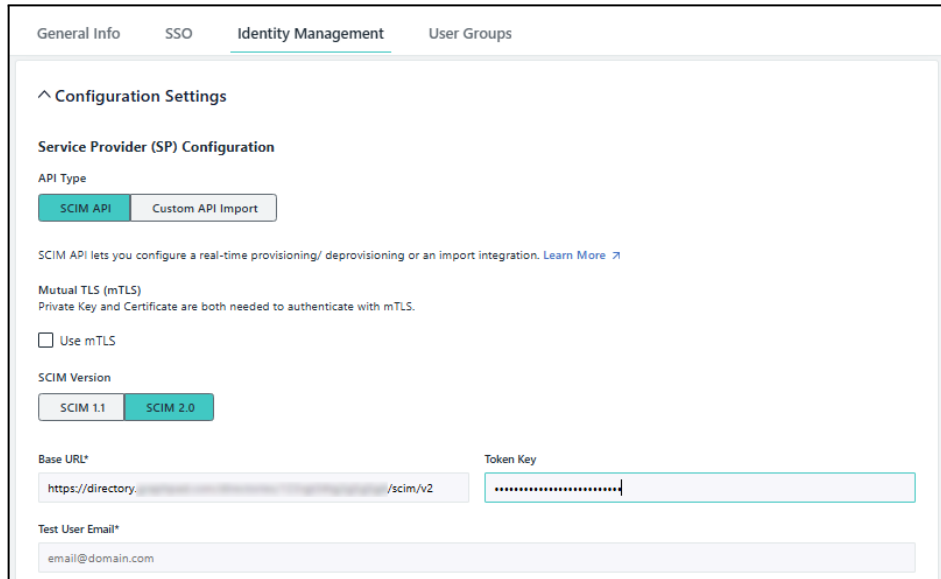
SCIM Identity Management Configuration

1. To configure SCIM, you will first need to retrieve your SnapGene connection details from [My Account](#)
 1. From My Account, select **Manage Seats**, then **User Provisioning**
 2. Enable SCIM 2.0 and keep your **SCIM Base URL** and **API Token** handy for the next step:

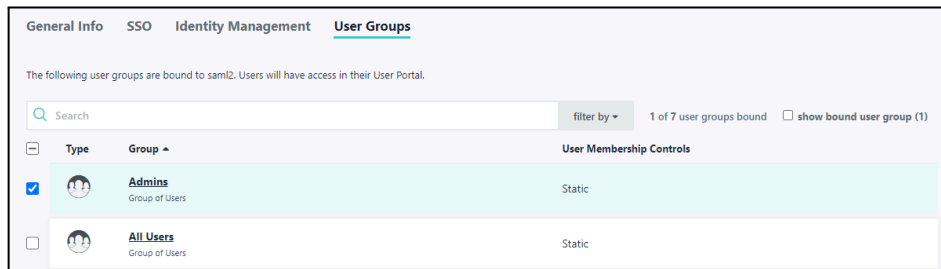


The screenshot shows the 'User Provisioning' settings page. At the top, there are navigation tabs for 'Dashboard', 'Seats', and 'Settings'. The 'Settings' tab is active. Below the navigation, the page title is 'User Provisioning'. A sub-header reads: 'Configure automatic provisioning, updating and de-provisioning of users through SCIM. [Learn more](#)'. Under the heading 'SCIM 2.0 STATUS', there is a dropdown menu currently set to 'ENABLED'. Below this is the 'Configuration Details' section, which includes the instruction: 'Use this information to set up the SCIM connection from IdP.' Under 'SCIM BASE URL', there is a text input field containing 'https://directory.snapgene.com/directories/' and a copy icon. Under 'API TOKEN', there is a text input field with masked characters '*****' and a copy icon, followed by a 'Regenerate Token' button. At the bottom, there is a 'Provisioning Errors' dropdown menu.

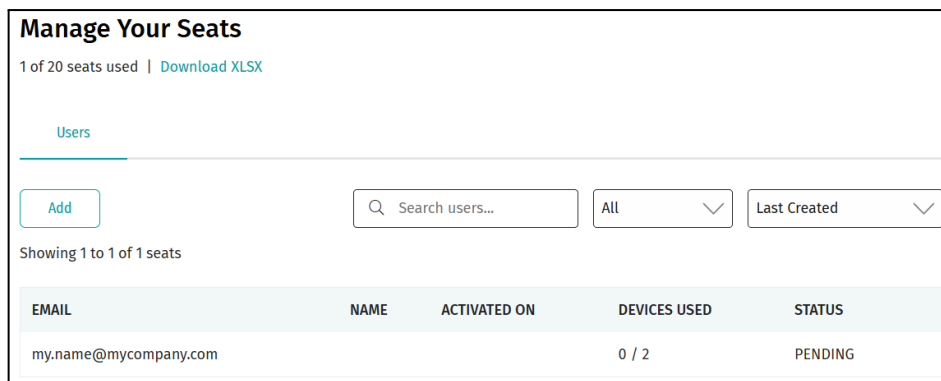
2. Then in the **Identity Management** tab of your JumpCloud application:
 1. Select **SCIM API** as the **API Type**
 2. Select **SCIM 2.0** as the **SCIM Version**
 3. Add your **SCIM Base URL** and **API Token Key**, copied from My Account
 4. Enter an email address that you own as the Test User Email
 5. Click **Test Connection**
 6. Click **Activate** and **Save**



- You have now successfully configured your user provisioning connection between JumpCloud and SnapGene. You can now provision users from JumpCloud into SnapGene by selecting a given User Group in the JumpCloud application's **User Groups** tab, and clicking **Save**:



- Returning to My Account after provisioning is complete will show the end user(s) ready to activate SnapGene in the **Seats** tab - please reload the page:



- In the SnapGene application, activate your software, selecting the **Email Sign In** option. Continue through the screens, selecting **Log In with SSO** as your authentication method:



Choose an Activation Method

Your license type determines your activation method.

[Need help?](#)

[Email Sign In](#)

Sign in with your SnapGene account used for your subscription.



Choose Authentication Method

my.name@mycompany.com

Your email supports SSO through your organization or SnapGene login.

[Log In with SSO](#)

Connects to your organization's single sign-on portal.



You're All Set

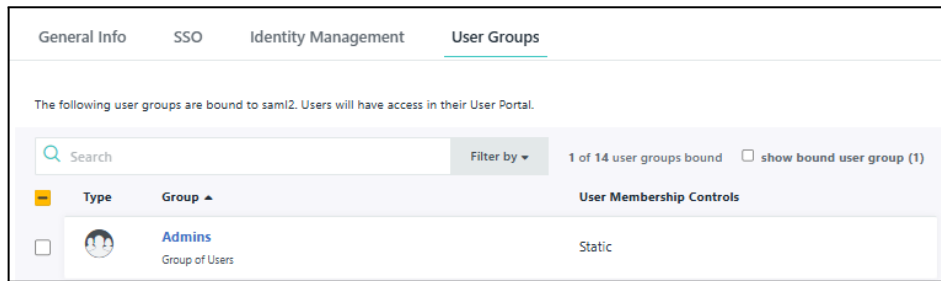
You're now ready to use all of the benefits included with your SnapGene subscription.

[Start Using SnapGene](#)

Revoke User

To revoke a user via JumpCloud:

1. In the **User Groups** menu within your **Configured Application**, unselect the group and click **Save**:



2. Return to My Account and refresh the page. That user will now be removed from the **Users** list
3. Finally, in SnapGene, follow the **Help -> About SnapGene** menu. Here you will be notified that the activation has been revoked.