Dotmatics Geneious

Microsoft Entra ID SSO & SCIM Guide

Getting Started

Accessing your user-based license

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

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

Preparing Prime

In order to follow the below steps to enable your SSO/SCIM configuration, you will need to be using at least version 2024.0 of Prime, and have deactivated your existing Prime activation.

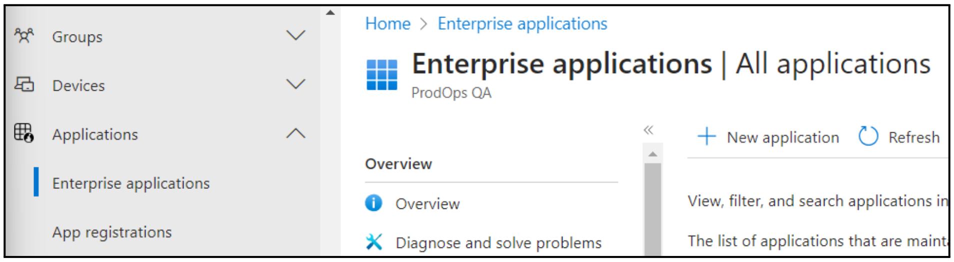
- To download the latest version, visit our Updates page, or update via the in-app updates feature
- Deactivate your current license by following **Help -> Manage License. . .**
- Let the Prime team know if your deactivation limit needs to be extended
- After deactivation, Prime should display the activation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

Microsoft Entra ID Configuration

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

Creating an Application in Microsoft Entra ID

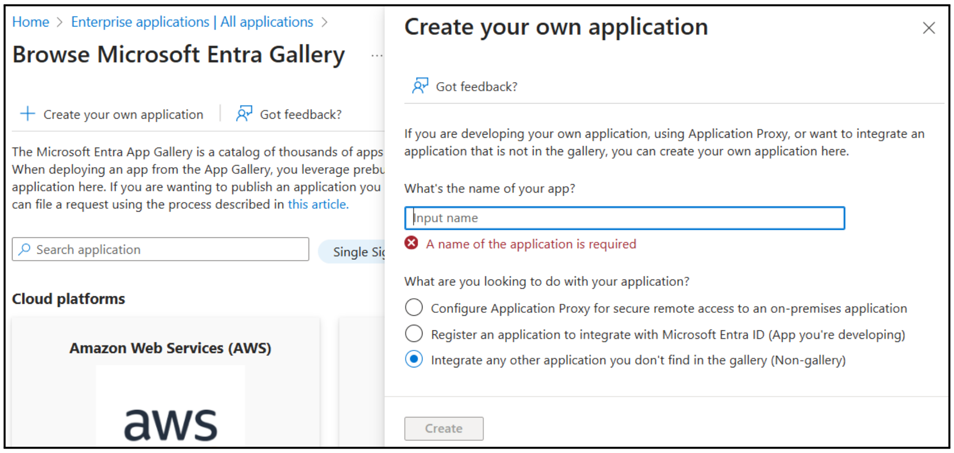
1. From the **Applications** side menu, select **Enterprise applications**. From here, select **New application**:



View, filter, and search applications in

The list of applications that are maint

2. Select **Create your own application**. Enter your application name e.g. “Geneious Prime”, select the **Non-gallery** application option, and click **Create**:


Home > Enterprise applications | All applications >
Browse Microsoft Entra Gallery
Create your own application
Got feedback?
Search application
Single Si
Cloud platforms
Amazon Web Services (AWS)
aws
Create your own application
Got feedback?
Create

The Microsoft Entra App Gallery is a catalog of thousands of apps
When deploying an app from the App Gallery, you leverage prebu
application here. If you are wanting to publish an application you
can file a request using the process described in this article.

If you are developing your own application, using Application Proxy, or want to integrate an application that is not in the gallery, you can create your own application here.

What's the name of your app?

Input name

A name of the application is required

What are you looking to do with your application?

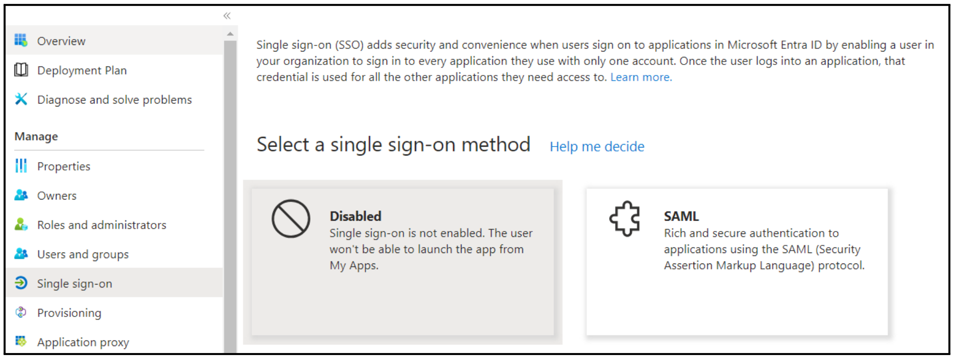
○ Configure Application Proxy for secure remote access to an on-premises application

○ Register an application to integrate with Microsoft Entra ID (App you're developing)

● Integrate any other application you don't find in the gallery (Non-gallery)

Single sign-on (SSO) Configuration

Once created, follow the **Manage -> Single sign-on** menu, then select **SAML** as your single sign-on method. Before continuing here, you will need to configure Geneious Prime's My Account, and use information from here to configure Entra ID.



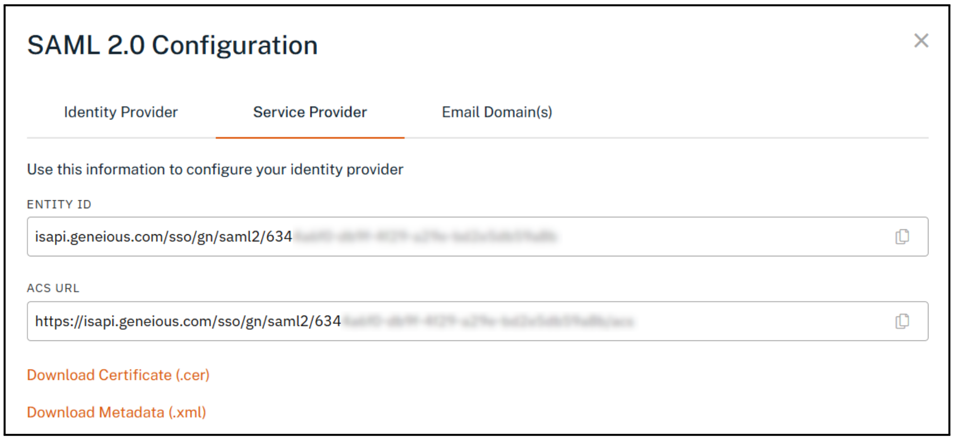
Single sign-on (SSO) adds security and convenience when users sign on to applications in Microsoft Entra ID by enabling a user in your organization to sign in to every application they use with only one account. Once the user logs into an application, that credential is used for all the other applications they need access to. Learn more.

Select a single sign-on method Help me decide

Disabled
Single sign-on is not enabled. The user won't be able to launch the app from My Apps.

SAML
Rich and secure authentication to applications using the SAML (Security Assertion Markup Language) protocol.

1. From My Account, select **Manage Seats**, then **Authentication**
2. Add a SAML2 **ID Provider**
3. Switch to the **Service Provider** tab and download the **Metadata** XML file. If the file opens in your browser rather than downloading, copy the XML data to a new file and save this as "metadata.xml"



SAML 2.0 Configuration

Use this information to configure your identity provider

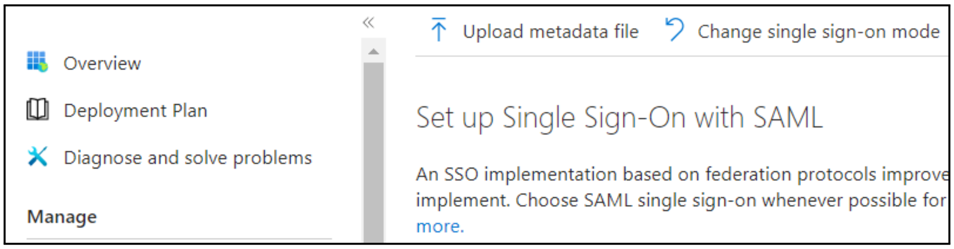
ENTITY ID

isapi.geneious.com/sso/gn/saml2/634[redacted]

ACS URL

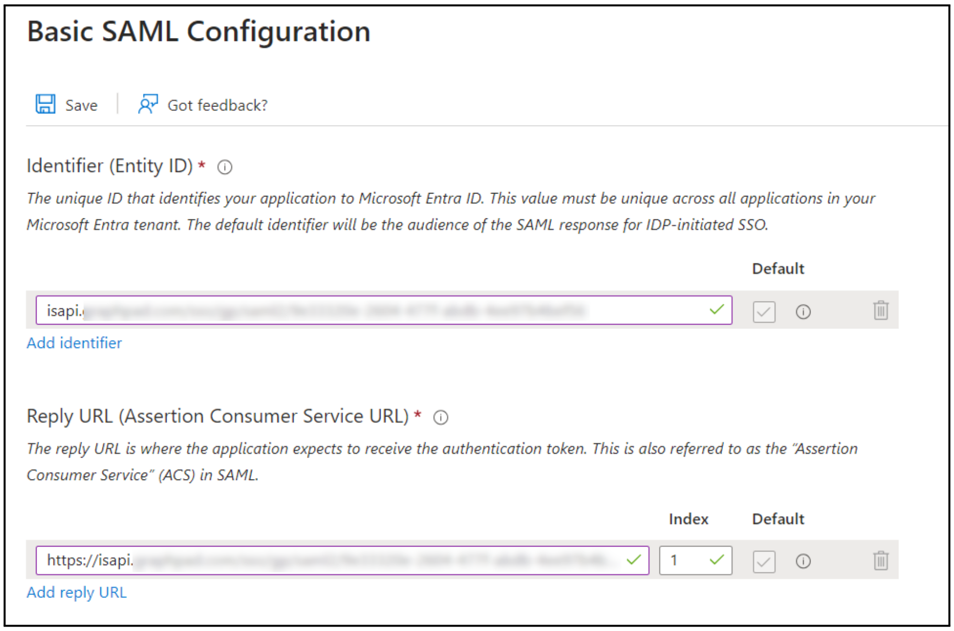
https://isapi.geneious.com/sso/gn/saml2/634[redacted]

4. Returning to Entra ID, select **Upload metadata file** and provide the above file. This will load the Entity ID and ACS URL seen in the above screenshot of My Account. Click Save:



Set up Single Sign-On with SAML

An SSO implementation based on federation protocols improve implement. Choose SAML single sign-on whenever possible for more.



Basic SAML Configuration

Identifier (Entity ID) * ⓘ

The unique ID that identifies your application to Microsoft Entra ID. This value must be unique across all applications in your Microsoft Entra tenant. The default identifier will be the audience of the SAML response for IDP-initiated SSO.

	Default
isapi.[redacted] ✓	☑ ⓘ

Add identifier

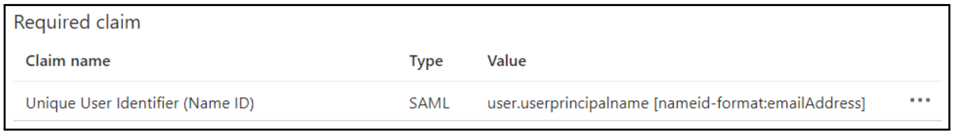
Reply URL (Assertion Consumer Service URL) * ⓘ

The reply URL is where the application expects to receive the authentication token. This is also referred to as the "Assertion Consumer Service" (ACS) in SAML.

	Index	Default
https://isapi.[redacted] ✓	1 ✓	☑ ⓘ

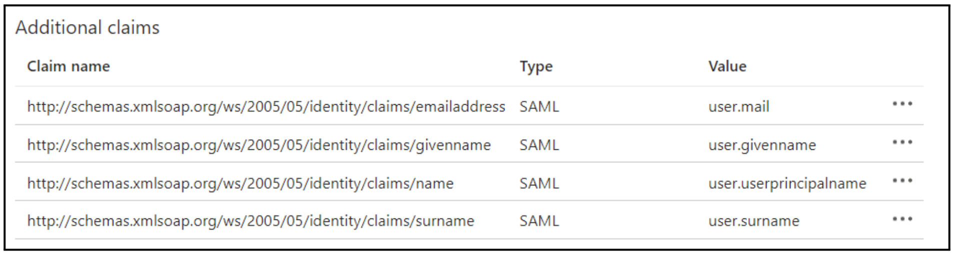
Add reply URL

5. Edit the **(2) Attributes & Claims** section. Verify that the claims are configured as below and update as necessary.
   Note: the Identifier Claim must use the email address. This can be done by either specifying a Value of "user.mail", or as per below if email is your default identifier.
   It is necessary that the email address used is consistent with the unique identifier. If aliasing between the email address and another identifier, please update the identifier claim here as necessary to use the email address of the invited user:



Required claim

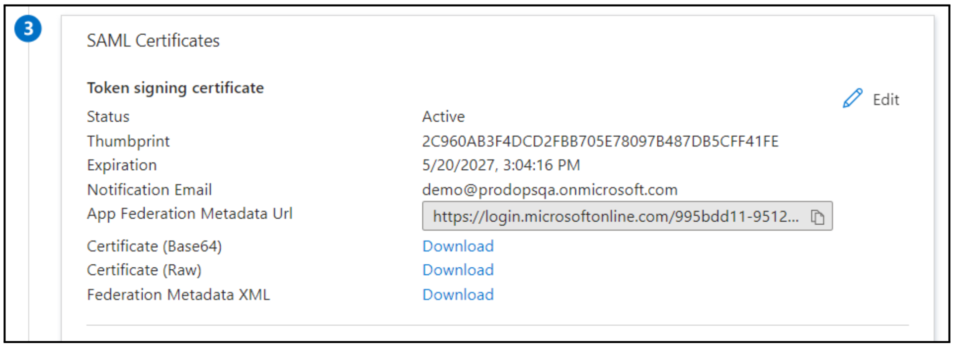
Claim name	Type	Value	
Unique User Identifier (Name ID)	SAML	user.userprincipalname [nameid-format:emailAddress]	···



Additional claims

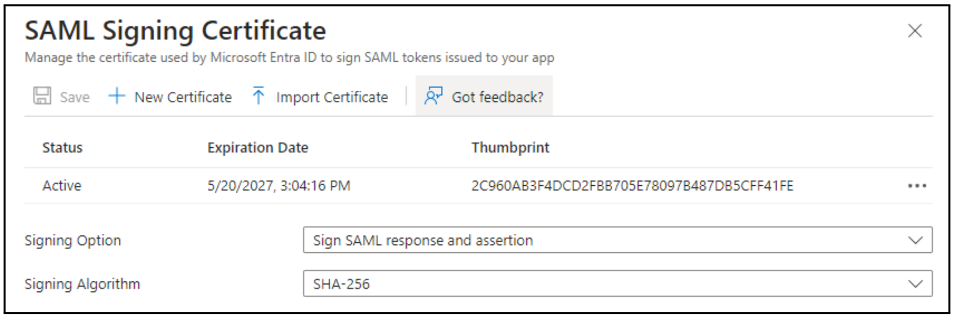
Claim name	Type	Value	
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress	SAML	user.mail	···
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/givenname	SAML	user.givenname	···
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/name	SAML	user.userprincipalname	···
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/surname	SAML	user.surname	···

6. Edit the **(3) SAML Certificates** section to use **Sign SAML response and assertion** as the **Signing Option**. Click **Save**:



Token signing certificate

Status	Active
Thumbprint	2C960AB3F4DCD2FBB705E78097B487DB5CFF41FE
Expiration	5/20/2027, 3:04:16 PM
Notification Email	demo@prodopsqa.onmicrosoft.com
App Federation Metadata Url	https://login.microsoftonline.com/995bdd11-9512...
Certificate (Base64)	Download
Certificate (Raw)	Download
Federation Metadata XML	Download



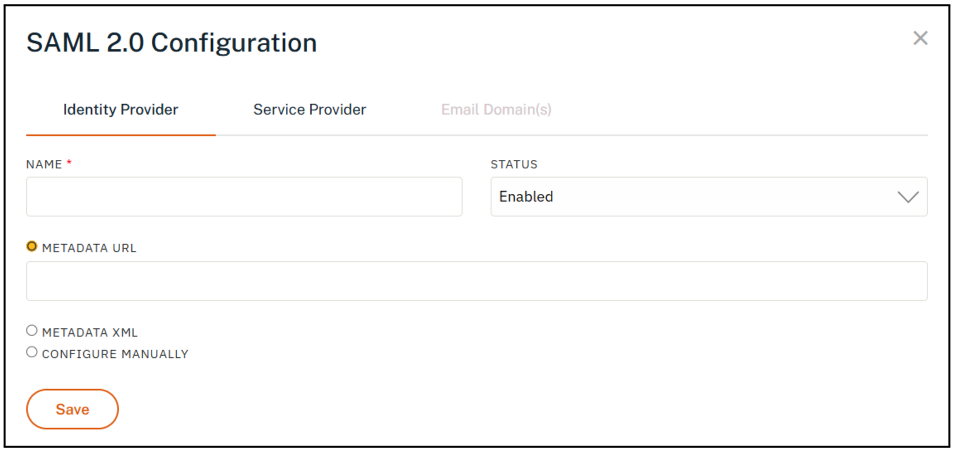
SAML Signing Certificate
Manage the certificate used by Microsoft Entra ID to sign SAML tokens issued to your app
Save
New Certificate
Import Certificate
Got feedback?

Status	Expiration Date	Thumbprint
Active	5/20/2027, 3:04:16 PM	2C960AB3F4DCD2FBB705E78097B487DB5CFF41FE

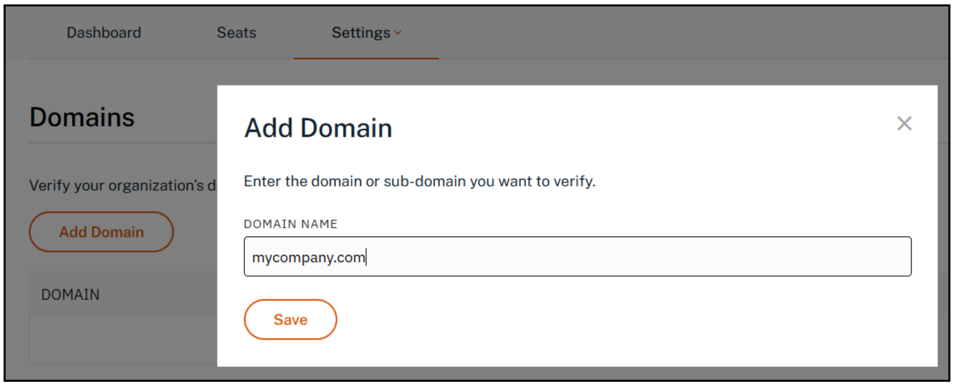
Signing Option: Sign SAML response and assertion

Signing Algorithm: SHA-256

7. From the same **(3) SAML Certificates** section shown above, copy the **App Federation Metadata URL**
8. Return to My Account and switch to the **Identity Provider** tab. Enter a name e.g. “Entra ID”, and paste in the Metadata URL from Entra ID. Click **Save**:



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

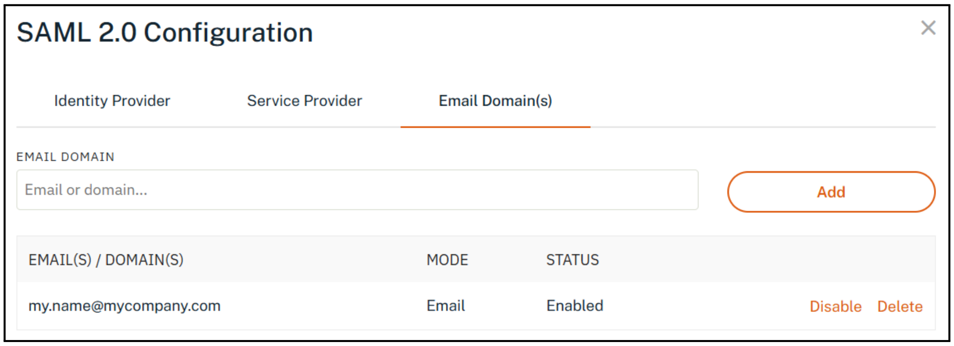


Add Domain

Enter the domain or sub-domain you want to verify.

DOMAIN NAME: mycompany.com

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 Prime. **First, test SSO access with a single email address by adding that email address in full:**

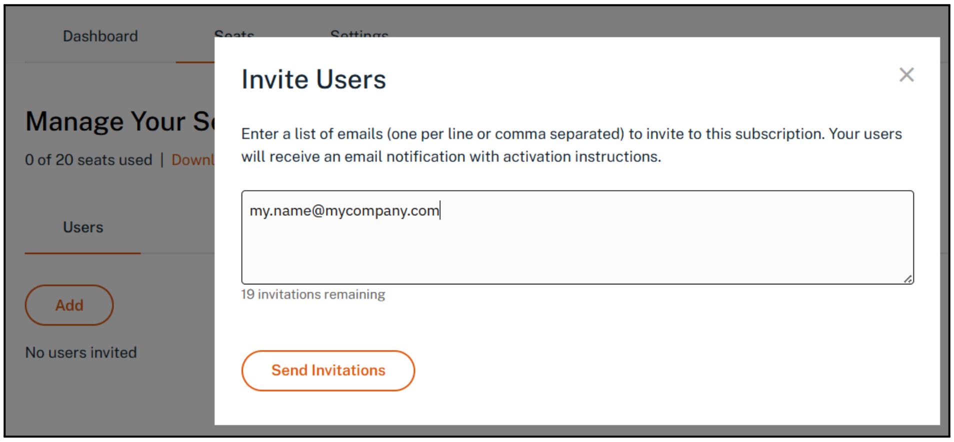


SAML 2.0 Configuration

EMAIL DOMAIN

EMAIL(S) / DOMAIN(S)	MODE	STATUS	
my.name@mycompany.com	Email	Enabled	Disable Delete

12. If you are using Entra ID 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 Entra ID in the SCIM configuration section later in this guide.



Invite Users

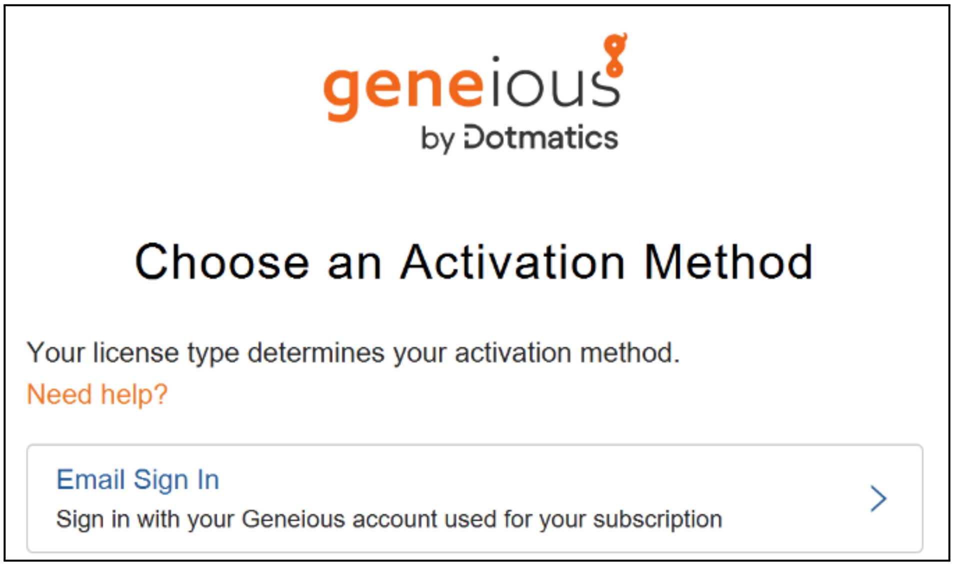
Enter a list of emails (one per line or comma separated) to invite to this subscription. Your users will receive an email notification with activation instructions.

my.name@mycompany.com

19 invitations remaining

13. If this user does not yet exist in Entra ID, create them in Entra ID now.
From Entra ID, assign this user to your application from the Applications menu.
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).

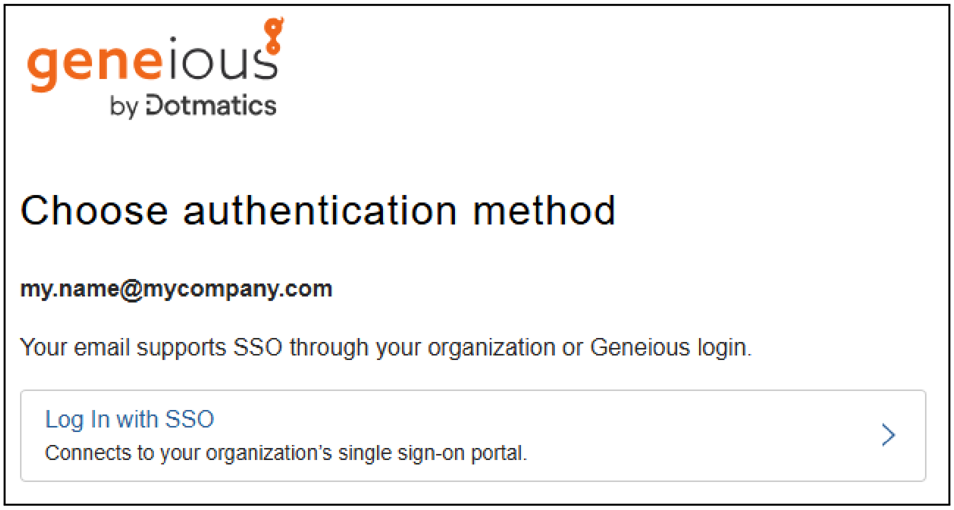
14. In the Prime application, activate your software, selecting the **Email Sign In** option. Continue through the screens, selecting **Log In with SSO** as your authentication method:



Choose an Activation Method

Your license type determines your activation method.
Need help?

Email Sign In
Sign in with your Geneious account used for your subscription

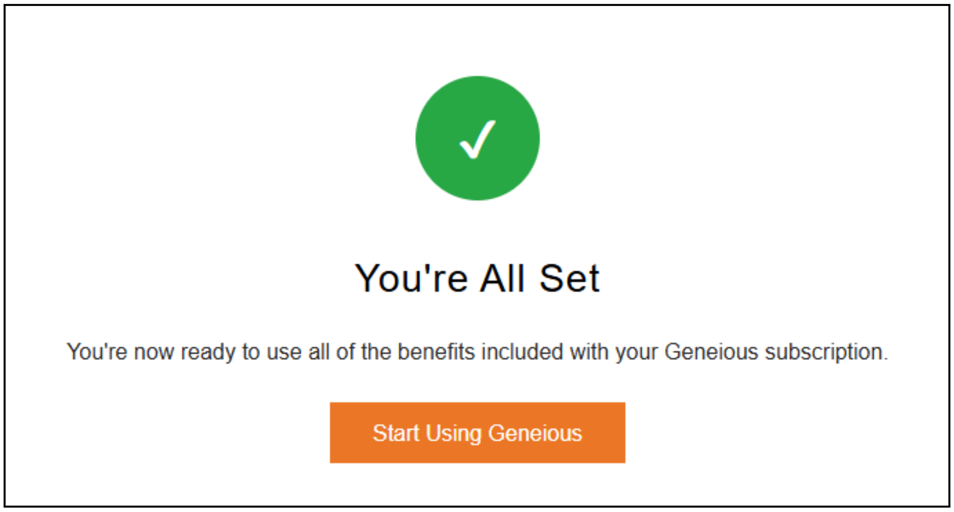


Choose authentication method

my.name@mycompany.com

Your email supports SSO through your organization or Geneious login.

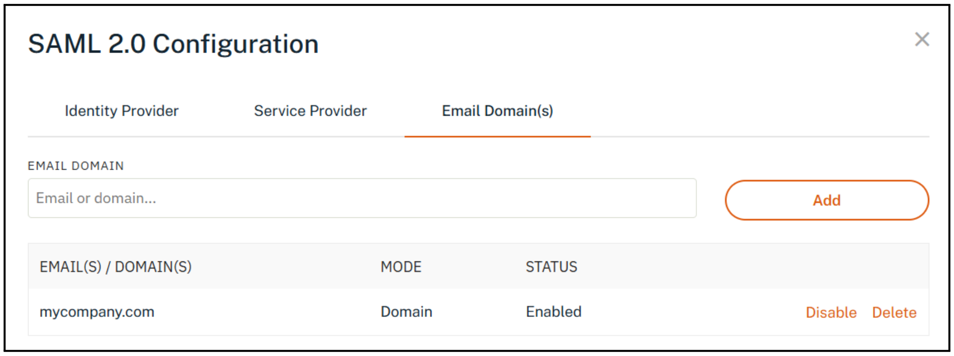
Log In with SSO
Connects to your organization's single sign-on portal.



You're All Set

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

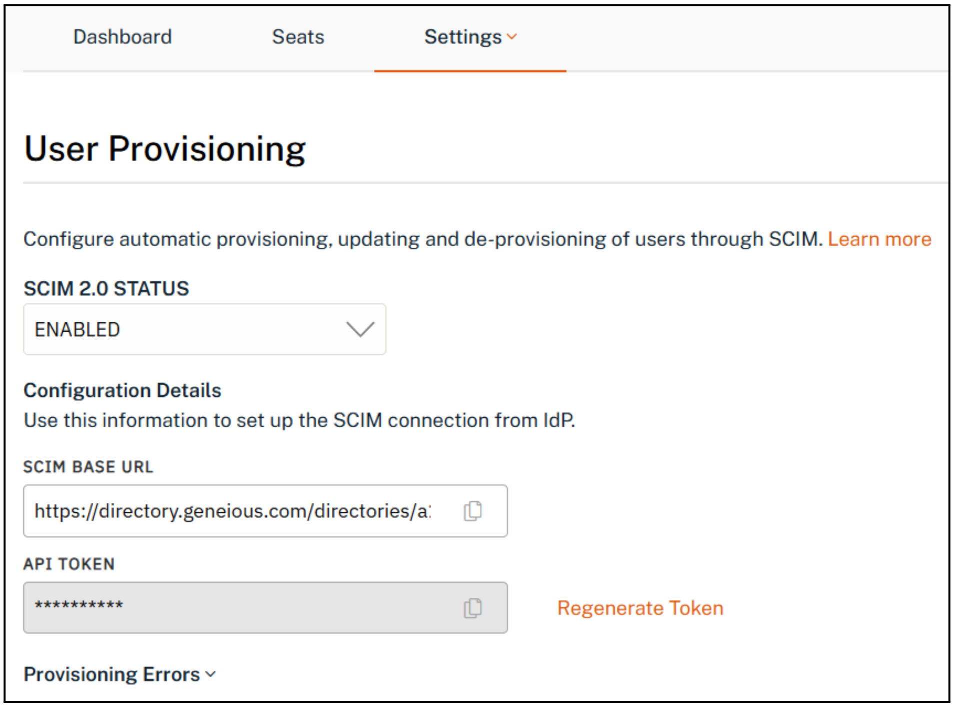
15. Once you have verified that Prime activates with this method, and are ready to enable SSO for your entire domain, add the email domain(s) that you wish to use with SSO. Also add the other users in both the **Users** tab of My Account, and in Entra ID as you have above:


SAML 2.0 Configuration

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

SCIM Identity Management Configuration

1. To configure SCIM, you will first need to retrieve your Prime 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:



User Provisioning

Configure automatic provisioning, updating and de-provisioning of users through SCIM. Learn more

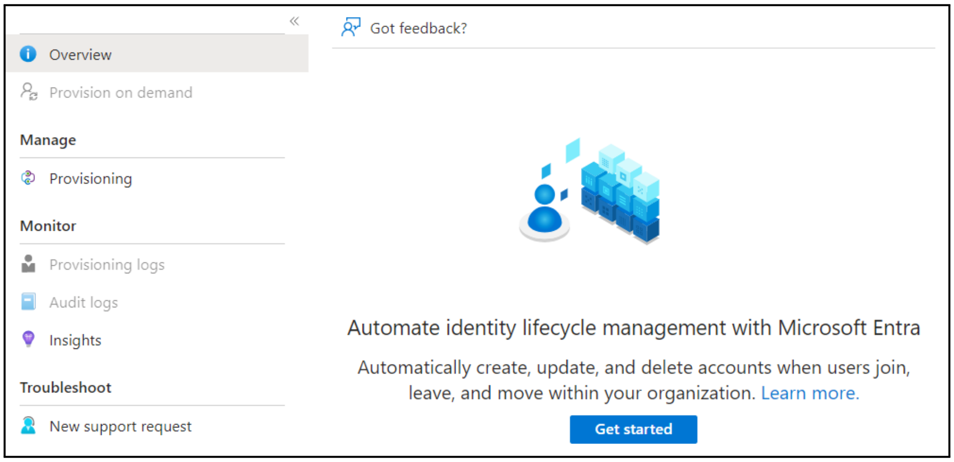
SCIM 2.0 STATUS: ENABLED

Configuration Details
Use this information to set up the SCIM connection from IdP.

SCIM BASE URL: https://directory.geneious.com/directories/a

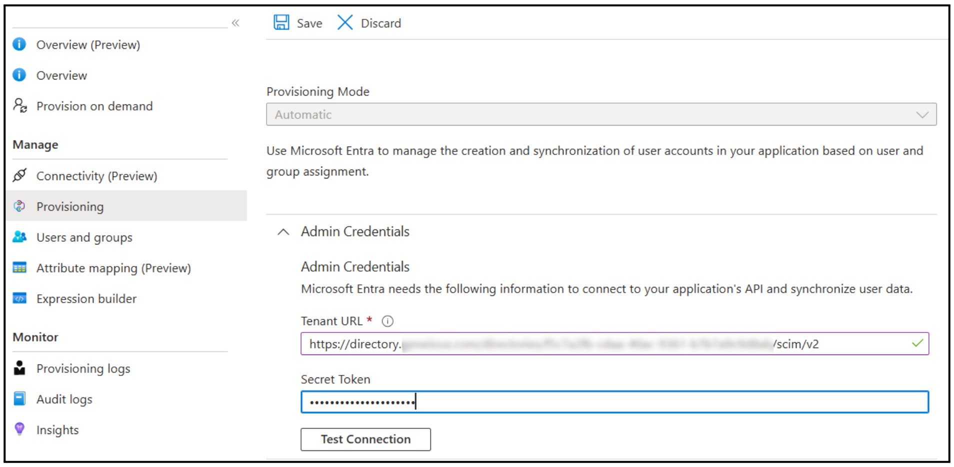
API TOKEN: **********

2. Then in the **Provisioning** menu of your Entra ID **Enterprise application**:
   1. Select **Get started**
   2. Select **Automatic** as your **Provisioning Mode**
   3. Add your **SCIM Base URL** and **API Token Key**, copied from My Account, as the **Tenant URL** and **Secret Token**, respectively
   4. Click **Test Connection**
   5. Click **Save**



Automate identity lifecycle management with Microsoft Entra

Automatically create, update, and delete accounts when users join, leave, and move within your organization. Learn more.



Provisioning Mode: Automatic

Use Microsoft Entra to manage the creation and synchronization of user accounts in your application based on user and group assignment.

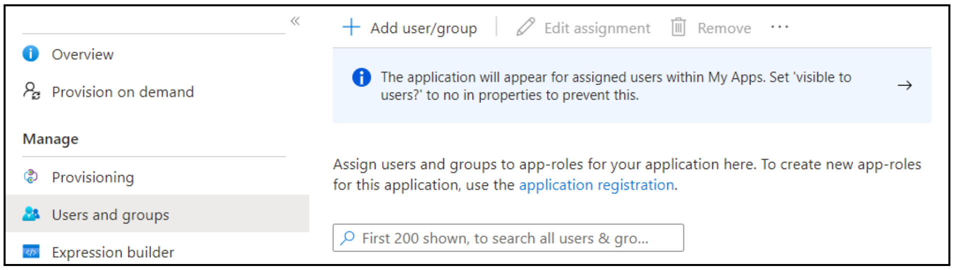
Admin Credentials

Microsoft Entra needs the following information to connect to your application's API and synchronize user data.

Tenant URL *: https://directory.[redacted]/scim/v2

Secret Token: ••••••••••••••••••••••

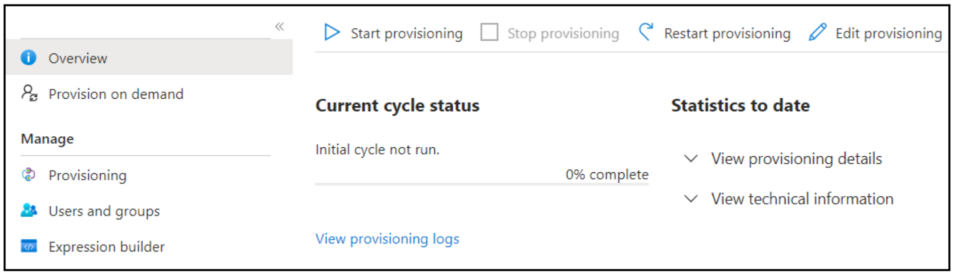
3. You have now successfully configured your user provisioning connection between Entra ID and Geneious Prime. You can now provision users from Entra ID into Prime by
    1. Returning to the **Provisioning** menu
    2. Select **User and groups**
    3. Click **Add user/group**
    4. **Select** and **Assign** those users/groups
    5. Return to the **Overview** of the **Provisioning** menu and click **Start provisioning**
    6. Click **Refresh** in the top right to see the provisioning complete



The application will appear for assigned users within My Apps. Set 'visible to users?' to no in properties to prevent this.

Assign users and groups to app-roles for your application here. To create new app-roles for this application, use the application registration.

First 200 shown, to search all users & gro...

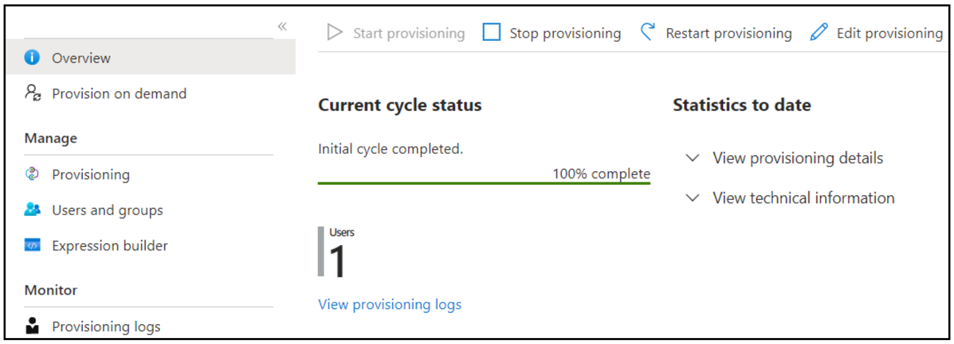


Current cycle status

Initial cycle not run.

0% complete

Statistics to date



Current cycle status

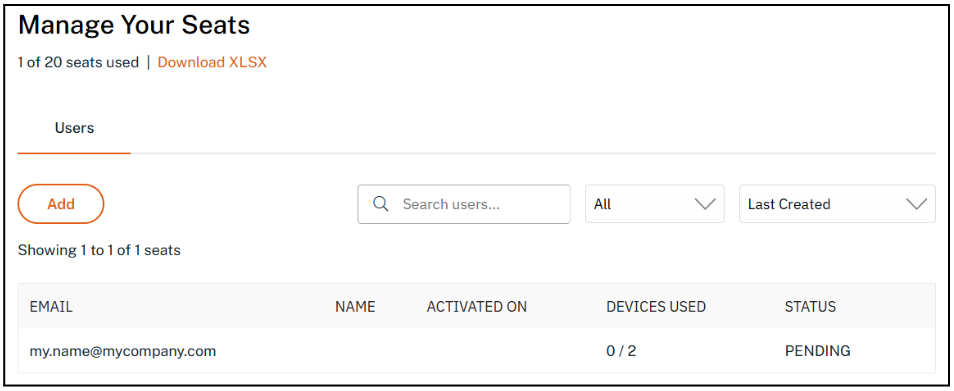
Initial cycle completed.

100% complete

Users 1

Statistics to date

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



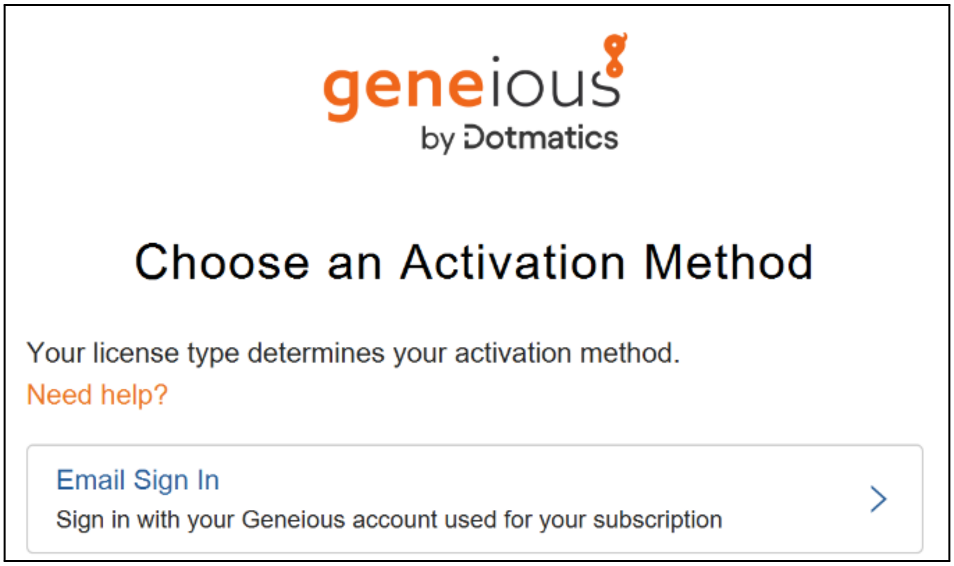
Manage Your Seats

1 of 20 seats used | Download XLSX

Showing 1 to 1 of 1 seats

EMAIL	NAME	ACTIVATED ON	DEVICES USED	STATUS
my.name@mycompany.com			0 / 2	PENDING

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



geneious by Dotmatics

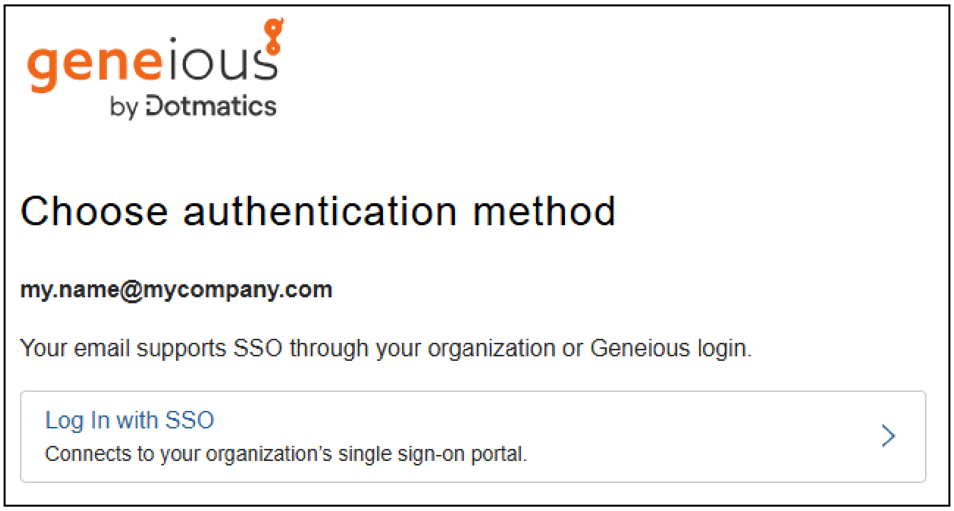
Choose an Activation Method

Your license type determines your activation method.

Need help?

Email Sign In

Sign in with your Geneious account used for your subscription



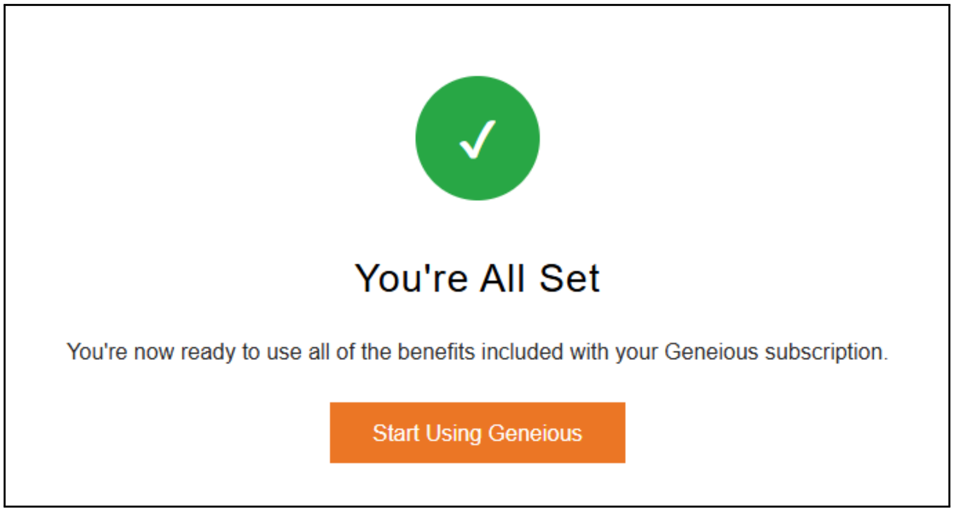
Choose authentication method

my.name@mycompany.com

Your email supports SSO through your organization or Geneious login.

Log In with SSO

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



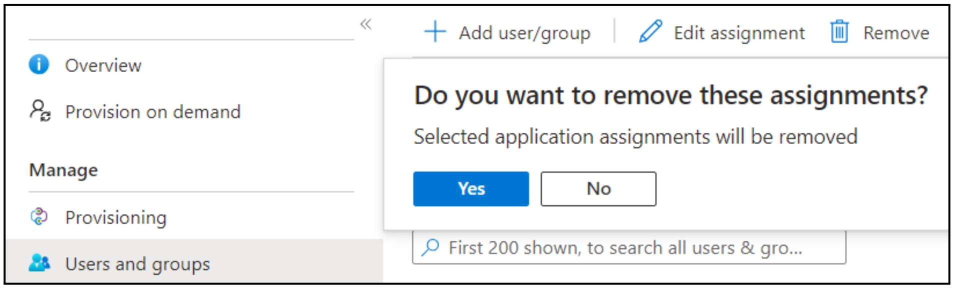
You're All Set

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

Revoke User

To revoke a user via Entra ID:

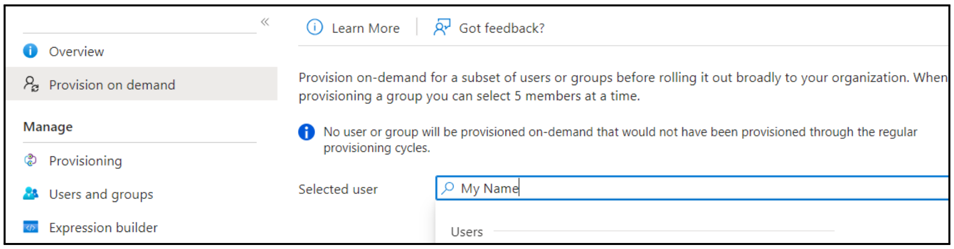
1. In the **Users and groups** menu within your **Enterprise application**, select the user and click **Remove** and **Yes** to remove the assignment. Alternatively, remove the group, or the user from the group, if you have assigned a group to the application instead:



Do you want to remove these assignments?

Selected application assignments will be removed

2. Then from the **Provision on demand** menu, search for and select that same user, and click **Provision**:



Provision on-demand for a subset of users or groups before rolling it out broadly to your organization. When provisioning a group you can select 5 members at a time.

No user or group will be provisioned on-demand that would not have been provisioned through the regular provisioning cycles.

Selected user: My Name

Users

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