

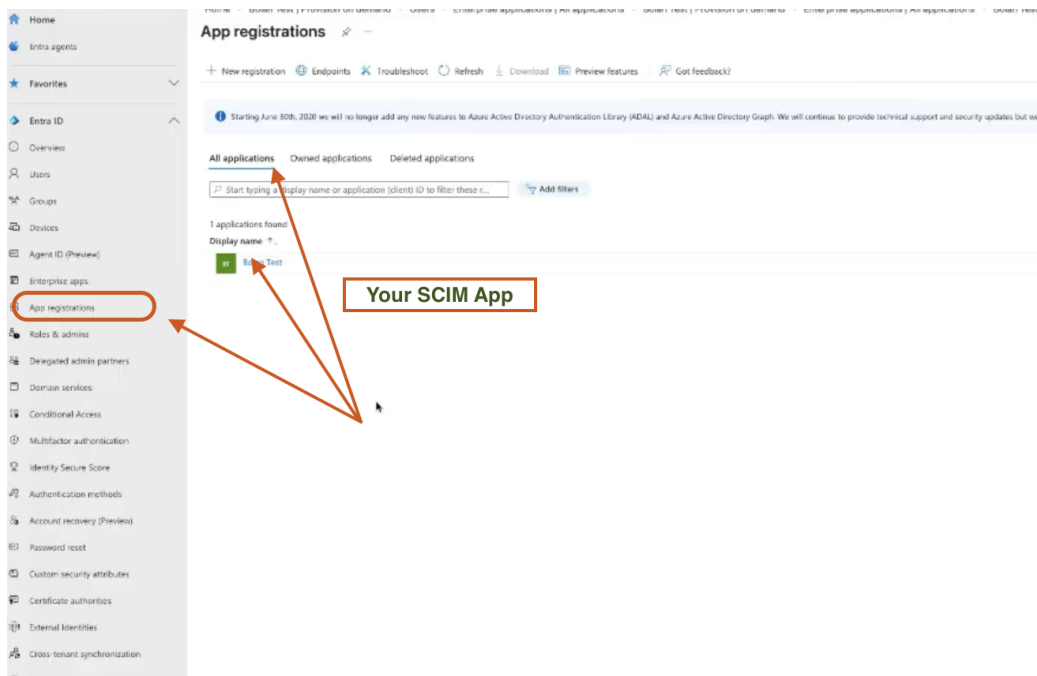
Assigning a License Role to a Group and Mapping **userType** in Microsoft Entra ID

Part 1: Create Application Roles (License Roles)

Application roles define which license level a user receives in your application.

Step 1: Open the App Registration

1. Go to **Entra ID**
2. Select **App registrations**
3. Open your SCIM application



Step 2: Configure App Roles

1. In your SCIM App select **App roles**
2. Click **+ Create app role**
3. Enter the following:
 - Display name:
e.g. **Org restricted license**
 - Allowed member types:
Select **Users/Groups**
 - Value:
org-restricted-license
 - Description:
The restricted license
 - Ensure **Enable this app role** is checked

Click **Apply**.

The screenshot shows the SCIM App roles management interface. On the left, a sidebar contains navigation links for Home, Users agents, Favorites, and various user management options. The main content area is titled 'Test | App roles' and includes a '+ Create app role' button. Below this is a table of existing app roles. A red arrow points from the '+ Create app role' button to the 'Create app role' dialog box on the right. The dialog box contains the following fields:

- Display name ***: Org restricted license
- Allowed member types ***: ☒ Users/Groups, ☐ Applications, ☐ Both (Users/Groups + Applications)
- Value ***: org-restricted-license
- Description ***: The restricted license
- Do you want to enable this app role?**: ☒

The table of existing app roles is as follows:

Display name	Description	Allowed member types	Value	ID	State
Org full license	Full license	Users/Groups	org-full-license	c33c054-d895-4871-a...	Enabled
User	User	Users/Groups	18d14569-c8d4-4198-...	Enabled	
modern_access	modern_access	Users/Groups	59532174-c057-407e...	Enabled	

Repeat this process for **Org full license** and **Org free license** groups.

NB: the Display name should be the same as the name you'll add to the UserType attribute expression in Part 3.

Part 2: Assign a Role to a Group

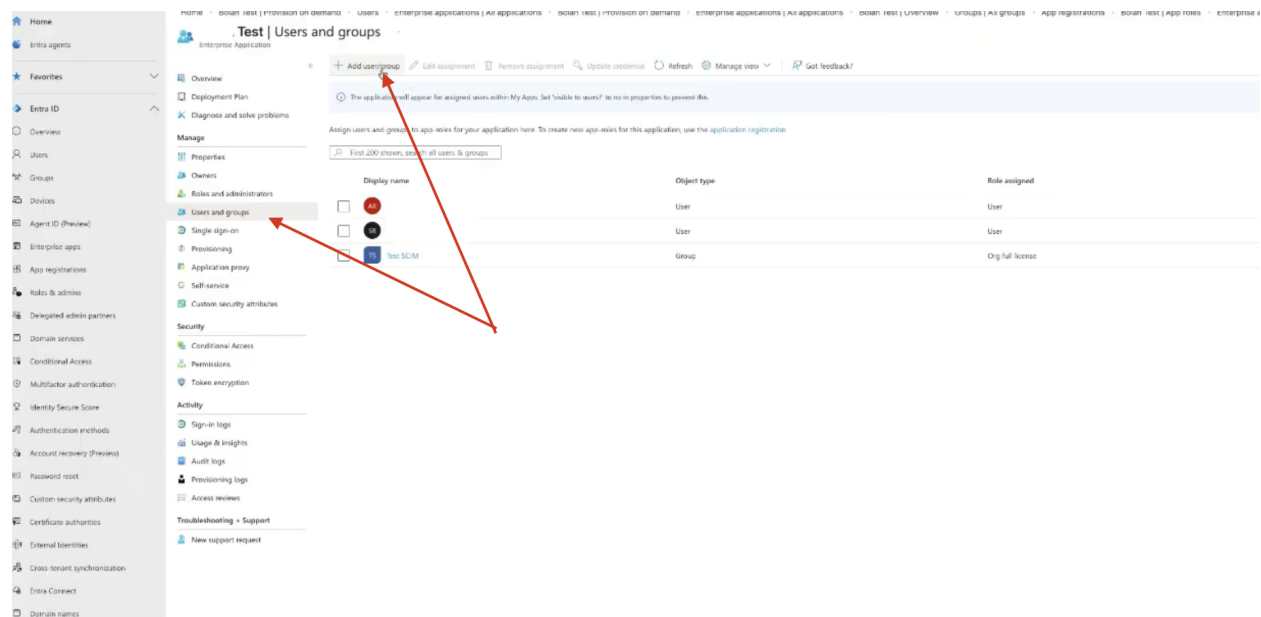
Once roles are created, assign them to the appropriate group.

Step 1: Open the Enterprise Application

1. Go to **Enterprise applications**
 2. Select your SCIM application
-

Step 2: Navigate to Users and Groups

1. In the left menu under **Manage**
2. Select **Users and groups**
3. Click **+ Add user/group**
4. Create a **separate group for each of the licenses** (Org full license group, Org restricted license group, Org free license group)

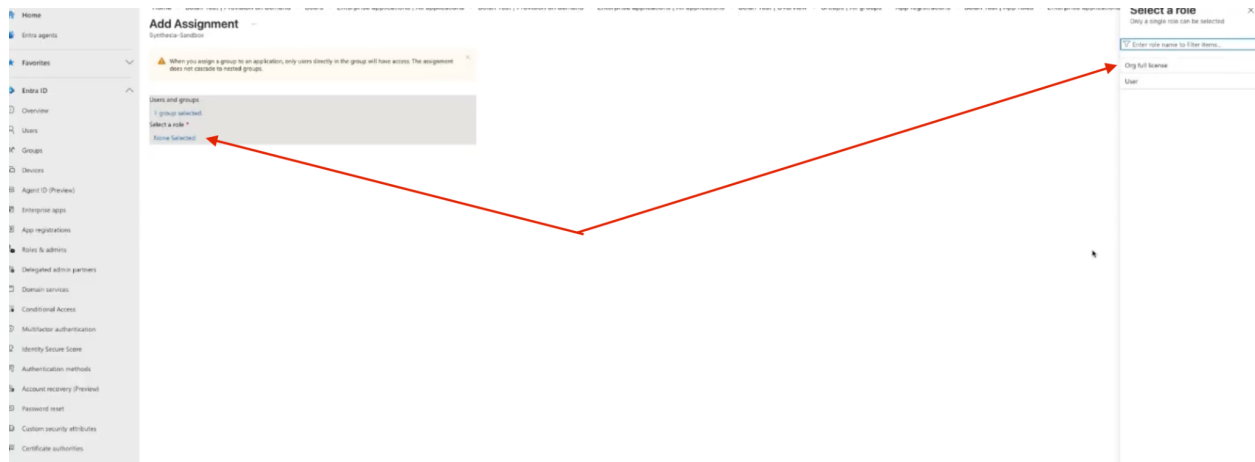


Step 3: Select the Group

1. Click the **Users and groups** selection area
 2. Search for and select your group (e.g., *Test SCIM*)
 3. Click **Select**
-

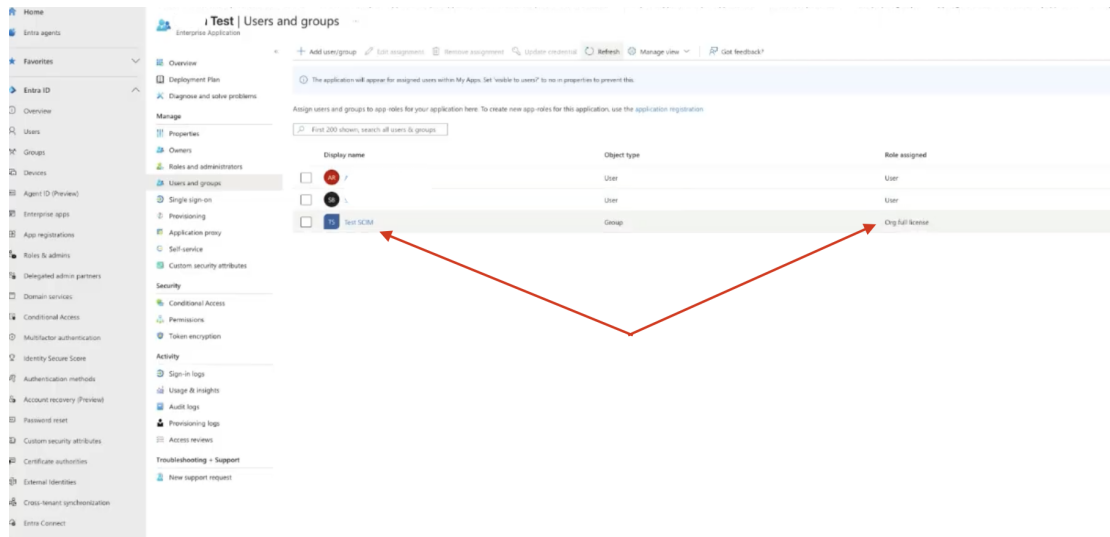
Step 4: Assign the Role

1. Under **Select a role**, click **None Selected**
2. Choose the appropriate license role (e.g., *Org full license*)
3. Click **Select**
4. Click **Assign**



After the assignment, you should see:

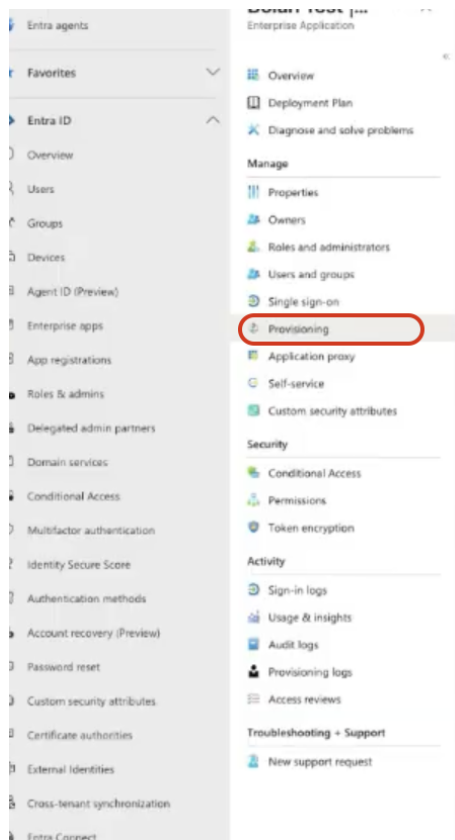
- **Object type:** Group
- **Role assigned:** Selected license role



Part 3: Configure the **userType** Attribute Mapping

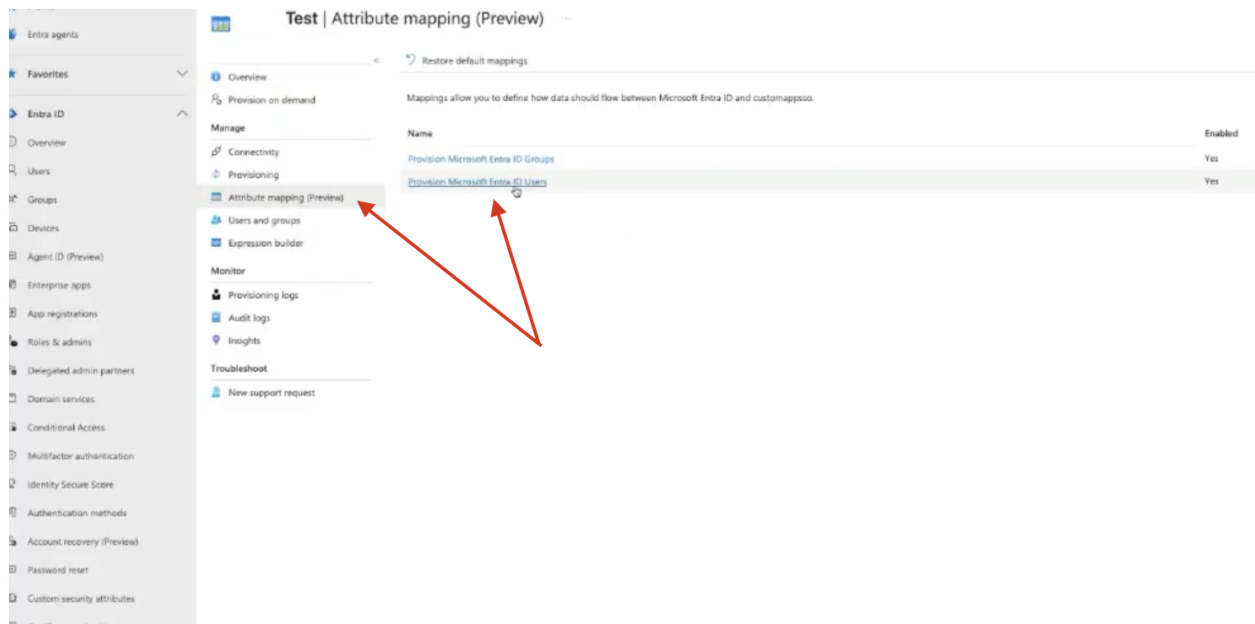
Step 1: Open Provisioning

1. In the Enterprise Application
2. Select **Provisioning**



Step 2: Open Attribute Mapping

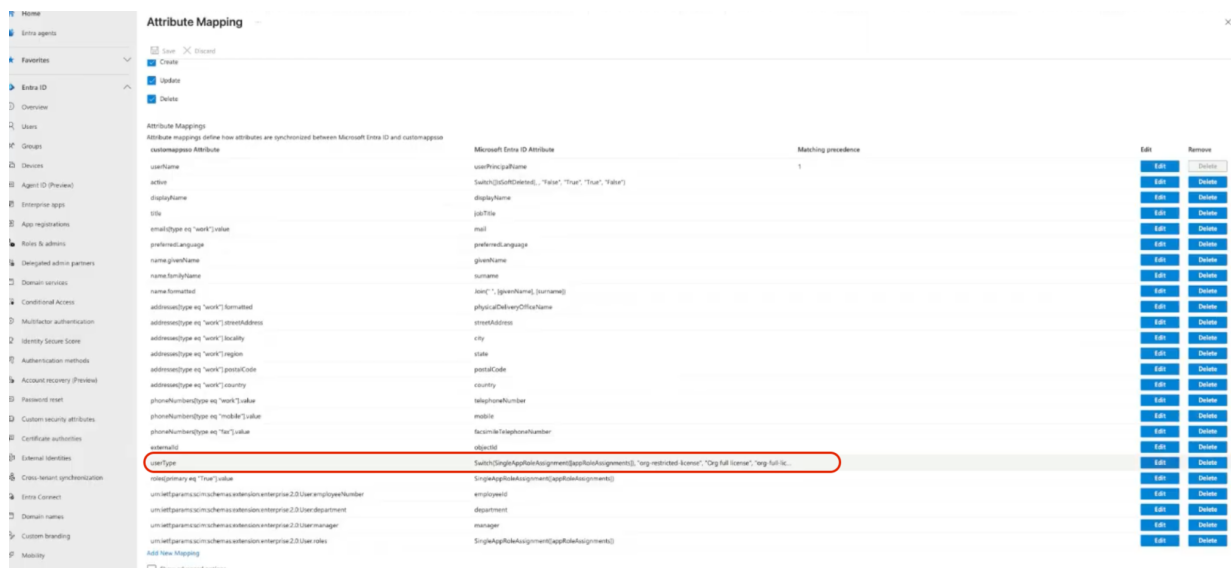
1. Click **Attribute mapping (Preview)**
2. Select **Provision Microsoft Entra ID Users**



Step 3: Edit or Create the **userType** Mapping

Locate the **userType** attribute.

- If it exists → click **Edit**
- If not → click **Add new mapping**



Step 4: Configure the Expression

Set:

- **Mapping type:** Expression
- **Target attribute:** userType

In the **Expression** field, enter:

Switch(SingleAppRoleAssignment([appRoleAssignments]), "org-restricted-license", "Org full license", "org-full-license", "Org free license", "org-free-license")

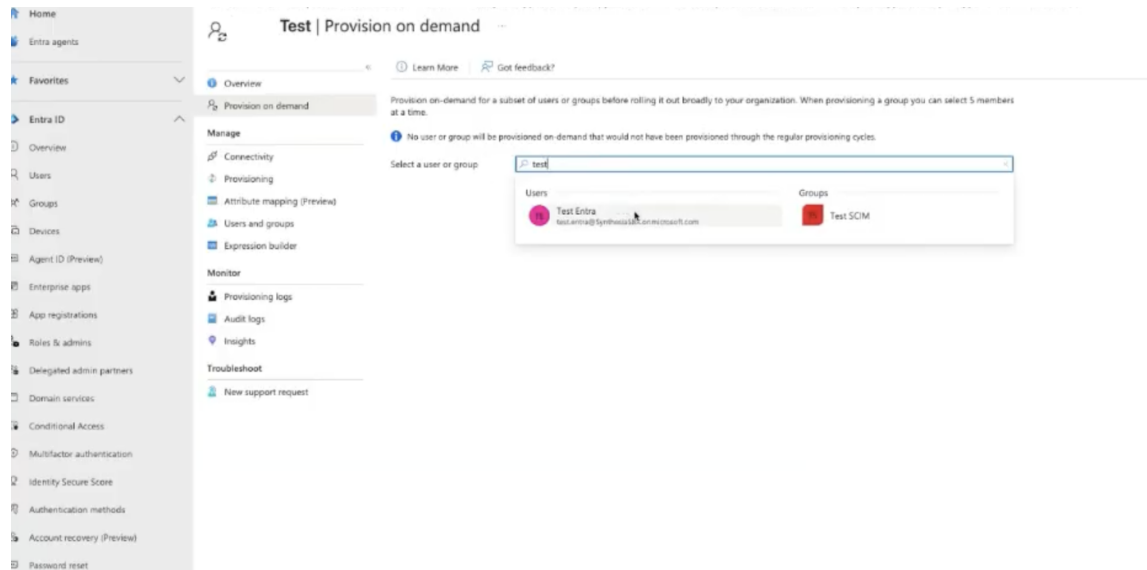
The screenshot shows the 'Edit Attribute' page in the Microsoft Entra Admin Center. The left-hand navigation pane is open, showing the 'Users' section. The main content area is titled 'Edit Attribute' and contains the following fields:

- Mapping type:** A dropdown menu set to 'Expression'.
- Expression:** A text box containing the expression: `Switch(SingleAppRoleAssignment([appRoleAssignments]), "org-restricted-license", "Org full license", "org-full-license", "Org free license", "org-free-license")`.
- Default value if null (optional):** A text box containing 'org-restricted-license'.
- Target attribute *:** A dropdown menu set to 'userType'.
- Match objects using this attribute:** A dropdown menu set to 'No'.
- Matching precedence:** A dropdown menu set to 'Always'.

Part 4: Validate Using Provision on Demand

Step 1: Open Provision on Demand

1. Go to **Provisioning**
2. Select **Provision on demand**



Step 2: Select a User

1. Search for a user from the assigned group
2. Select the user

Step 3: Review Results

After provisioning completes:

1. Expand the provisioning result
2. Review the attribute list
3. Confirm that:

userType = the license you have provisioned

(or the value corresponding to the assigned role)

Test | Provision on demand

Overview | Provision on demand | Learn More | Technical details | Get feedback?

Manage

Connectivity

Provisioning

Attribute mapping (Review)

Users and groups

Expression builder

Monitor

Provisioning logs

Audit logs

Insights

Troubleshoot

New support request

User

Test Entra

test.entra@synthetiaGBX.onmicrosoft.com

1. Import user

This step shows the user retrieved from the source system and the properties of the user in the source system.

Success | View details

2. Determine if user is in scope

This step shows the scoping conditions that were evaluated and which ones the user passed or failed.

Success | View details

3. Match user between source and target system

This step shows whether the user was found in the target system as well as the properties of the user in the target system.

Success | View details

4. Perform action

This step shows the action that was performed in the target application, such as creating a user or updating a user.

Success | View details

Retrieved test.entra@synthetiaGBX.onmicrosoft.com from custommapping

Target attribute name	Target attribute value
active	True
displayName	Test Entra
externalId	56c1e319-af27-432e-b3d5-99784a362915
id	directory_user_0104b67744f1464b6b9f74d25878
title	Test account for Synthetia Testing
userName	test.entra@synthetiaGBX.onmicrosoft.com
userType	org-full-licence
name.familyName	Entra
name.formatted	Test Entra
name.givenName	Test
roles[primary eq "True"].type	WindowsAzureActiveDirectoryRole
roles[primary eq "True"].value	Org full licence

You should also see the assigned role reflected in:

`roles[primary eq "True"].value`