

Azure SSO/SCIM Setup

Requirements

To successfully integrate Azure SSO and SCIM with our application, ensure the following prerequisites are met:

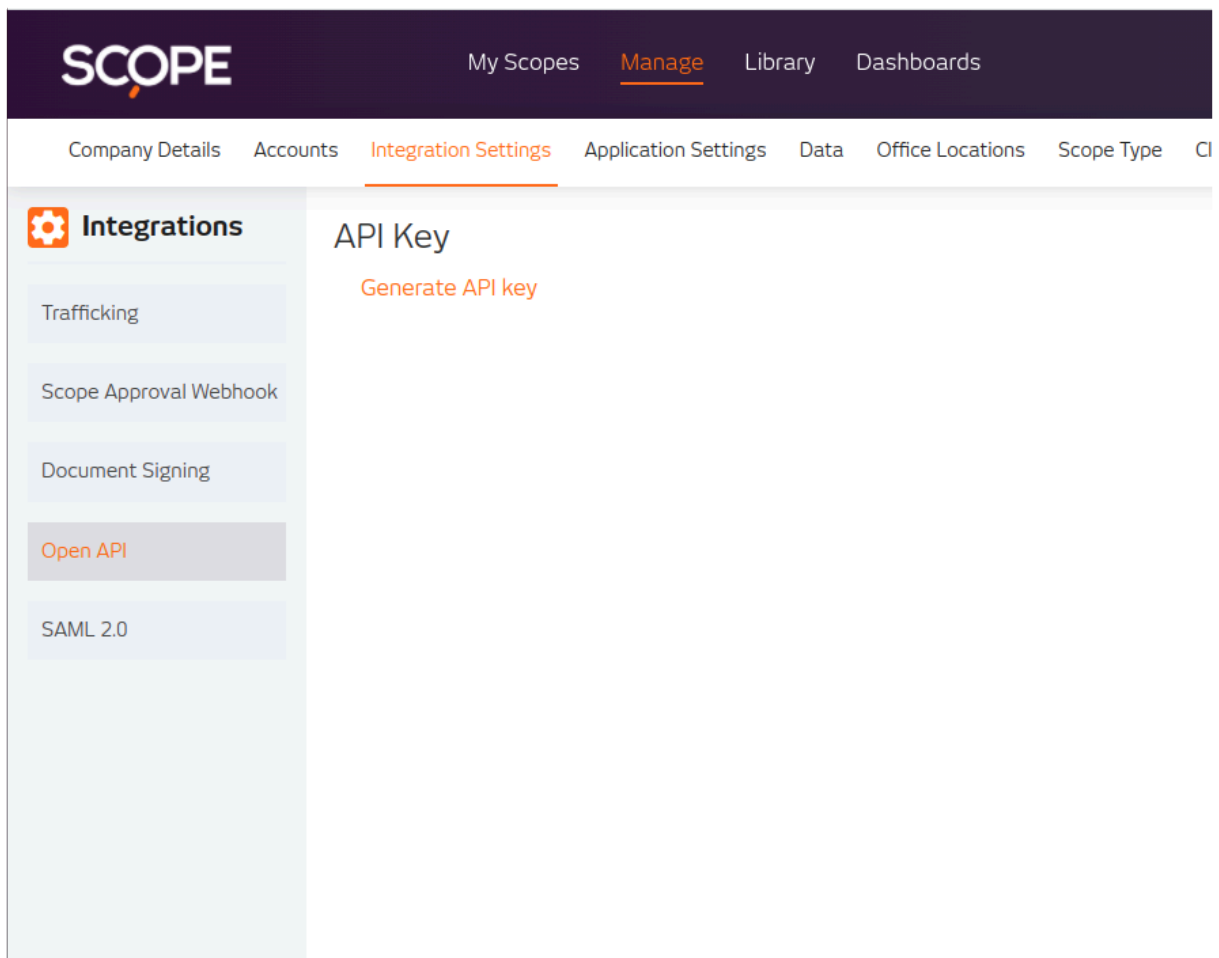
1. Active Directory

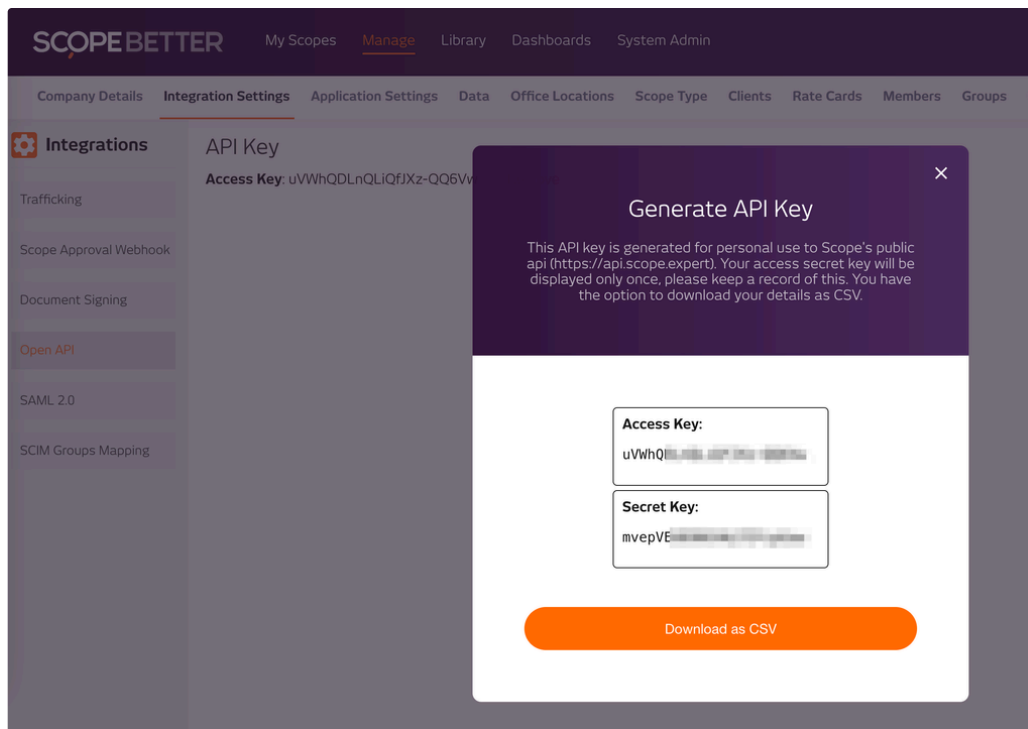
Your organization must use **Azure Active Directory** (Azure AD) for identity and access management. This will be used for Single Sign-On (SSO) and provisioning users via SCIM.

2. Generate API Key.

How to Obtain OpenAPI Credentials:

- Navigate to **Manage > Integration Settings > OpenAPI**.
- Click on **Generate API Key**.
- You will be shown the **username** and **password**.
- **Important:** Copy the credentials and store them in a secure location, as they will be needed to configure SCIM in Azure AD.





3. How to Obtain OpenAPI Access Token:

1. **Download Postman:** [Download Postman | Get Started for Free](#)

If you haven't already, download and install Postman from here.

2. **Create a New Request in Postman:**

Open Postman and create a new request.

Set the request method to **POST**.

In the request URL, enter the appropriate token endpoint (provided by our application).

3. **Add Authorization:**

In the Authorization tab, fill the username tab with this endpoint (`scope-public-api_scim`).

In the Body/ x-www-form-urlencoded fill the username and password with your credentials obtained from Scope Integration Settings:

Username: This is your Access Key.

Password: This is your Secret Key.

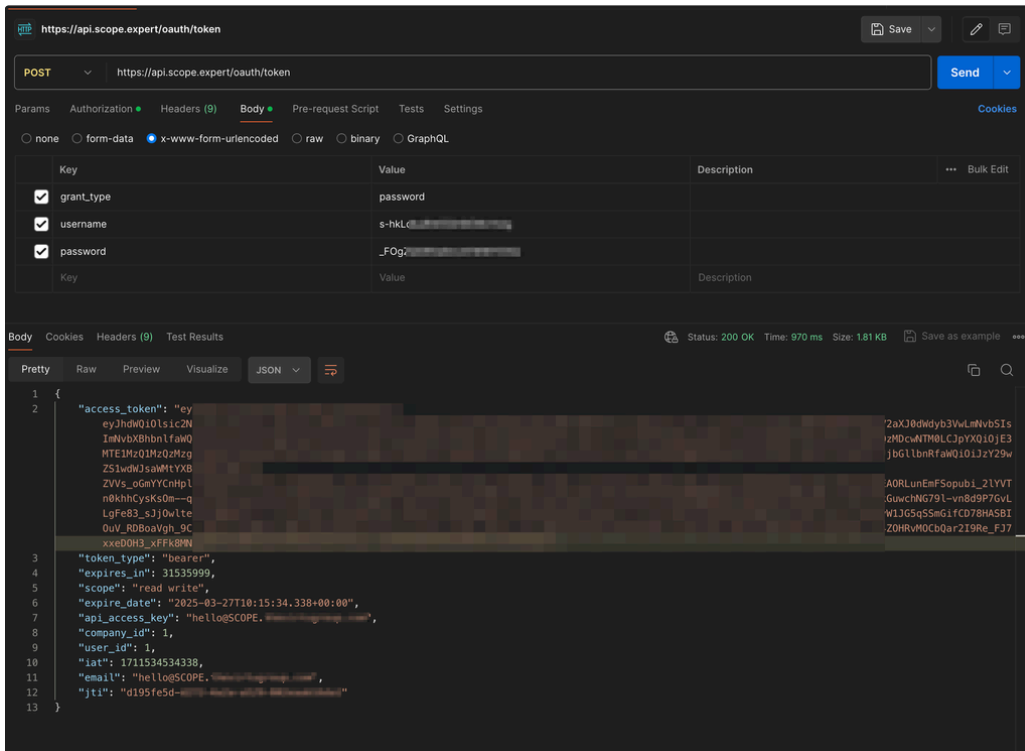
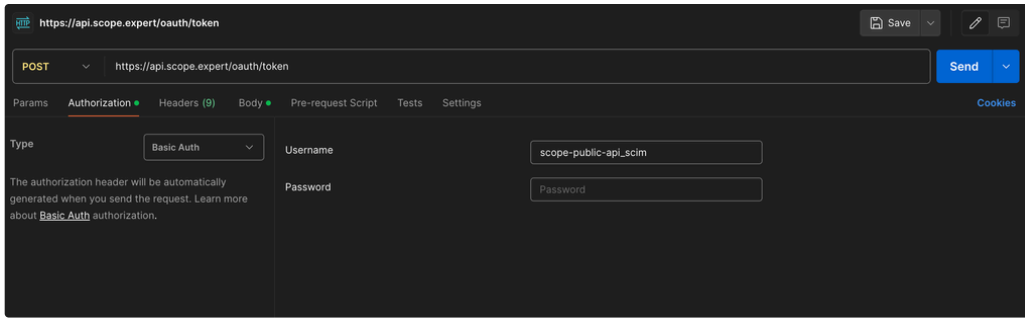
4. **Send the Request:**

Click Send to submit the request.

5. **Copy the Access Token:**

Once the request is successful, you will receive the `access_token` in the response. Copy the token and save it in a secure location.

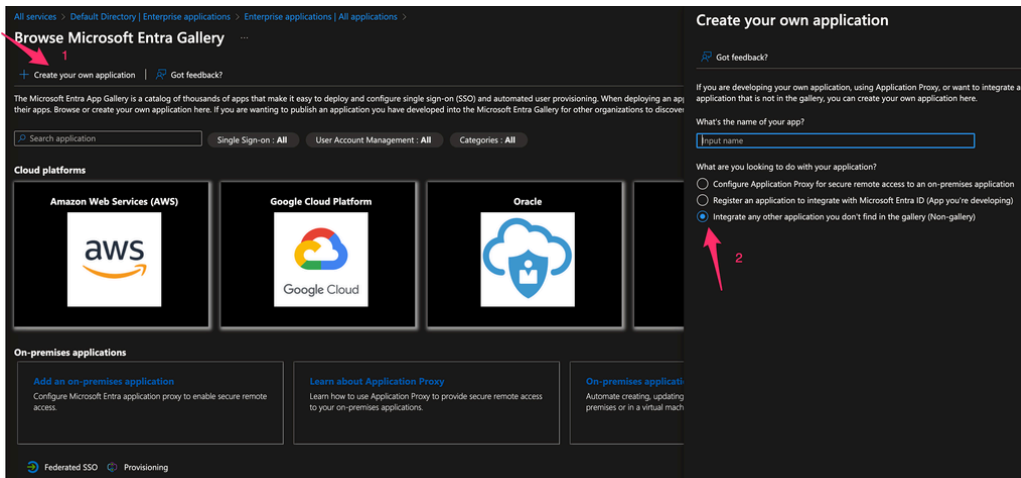
i Please use Production API url as your request's base url when making requests for your production instance <https://api.scope.expert>



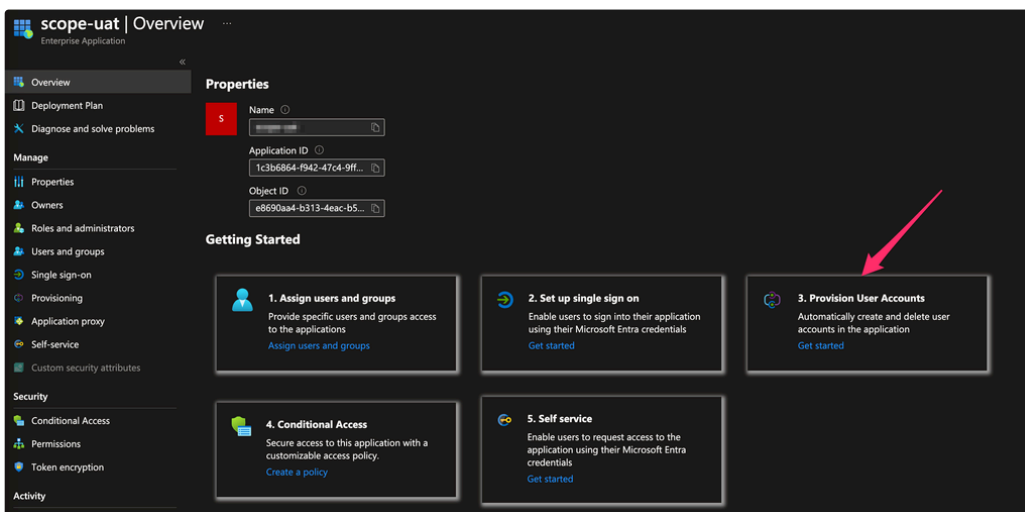
Configure SCIM app in Azure:

i Before stating the setup you need to select a `userName` that is going to be inserted in Scope from Azure. Scope only supports email as username. Please make sure the correct username is being sent to Scope when provisioning and when login via SSO. Depends on your configuration you might need to map attributes in step 5.

1. In Your Active Directory Client on Enterprise applications tab.
2. Select "New application" > "Create your own application". There you'll be shown three options, select the last option "Non-gallery" app.

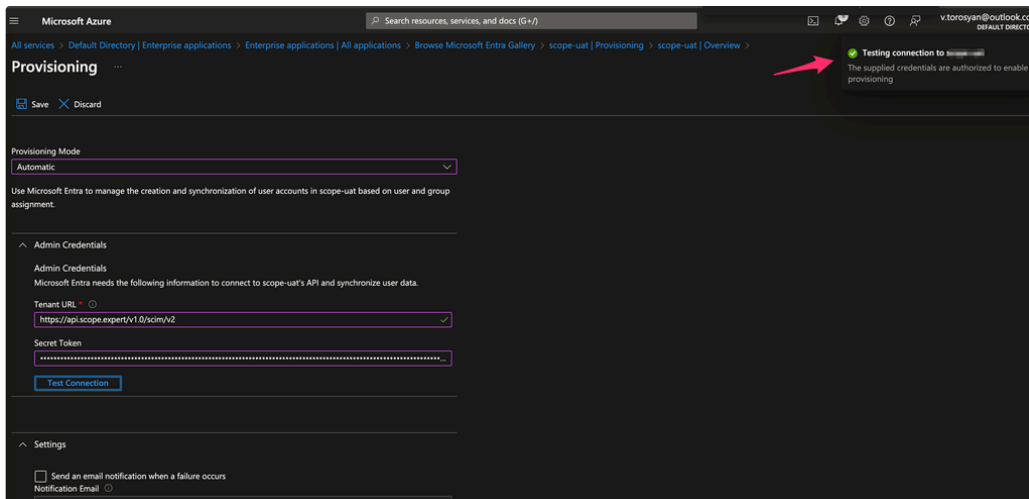


3. Once the app is created select “Provision User Accounts”.



4. Enter appropriate values in given fields.

- Choose Provision Mode **Automatic**
- The value of the Tenant URL is **https://api.scope.expert/v1.0/scim/v2**
- The value of the Secret Token is `access_token` obtained from Scope OPEN API.
- Click Test Connection
- Click Save and wait until you get
- Once you save it, Azure will make a test request and confirm that the connection has been made.



5. After saving reload the form you will see toggle button at the end saying "Provisioning status", toggle it to on and save it. The provision will start. The default interval is 40 mins.

If you're required to map email as attribute, you need to do that now by clicking, "Provision Azure Active Directory Users" link in Mappings and change following attribute.

rPrincipalName	userName	1	Delete
itc[!isSoftDeleted], "False", "True", "True", "False")	active		Delete
playName	displayName		Delete

Note: The provisioning only happens when you assign a directory user the app you've created. It's an straight forward process .

Active Director > Enterprise Applications > Your app

Scope Test Integration App | Users and groups

- Overview
- Deployment Plan
- Manage
 - Properties
 - Owners
 - Roles and administrators
 - Users and groups**
 - Single sign-on
 - Provisioning
 - Application proxy
 - Self-service
 - Custom security attributes (preview)
- Security
 - Conditional Access
 - Permissions
 - Token encryption
- Activity
 - Sign-in logs
 - Usage & insights
 - Audit logs

+ Add user/group Edit Remove Update Credentials Columns Got feedback?

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](#).

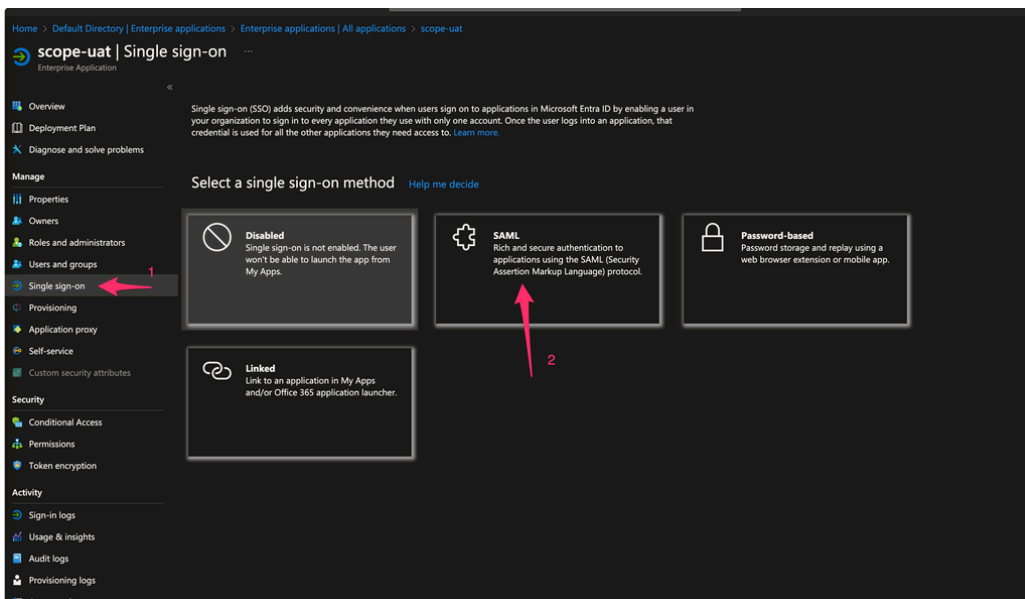
First 200 shown, to search all users & groups, enter a display name.

	Display Name	Object Type
<input type="checkbox"/>	A2 Azure 2	User
<input type="checkbox"/>	DE deepak	User
<input type="checkbox"/>	JD Jane Doe	User
<input type="checkbox"/>	TE test15	User
<input type="checkbox"/>	US User	User
<input type="checkbox"/>	U1 User 1	User
<input type="checkbox"/>	U1 User 17	User
<input type="checkbox"/>	U1 User 19	User
<input type="checkbox"/>	U2 User 2	User
<input type="checkbox"/>	U2 User 21	User
<input type="checkbox"/>	WS will smith	User

You'll be shown this screen. Select new users from "+Add user/group"

The next step is to configure SSO login in Scope.

1. On Azure Navigate your Enterprise Application and select Single sign-on and choose SAML.



2. Enter appropriate values in given fields.

Identifier (Entity ID) - **https://scope.expert**

Reply URL (Assertion Consumer Service URL) - **https://scope.expert/saml/SSO**

Sign on URL - **https://scope.expert/saml/SSO**

The screenshot shows the configuration page for an enterprise application named 'scope-uat | SAML-based Sign-on'. The left sidebar contains navigation options like Overview, Deployment Plan, Diagnose and solve problems, Manage, Properties, Owners, Roles and administrators, Users and groups, Single sign-on, Provisioning, Application proxy, Self-service, Custom security attributes, Security, Conditional Access, Permissions, Token encryption, Activity, Sign-in logs, Usage & insights, Audit logs, and Provisioning logs. The main content area is divided into three sections:

- Basic SAML Configuration:** This section is highlighted with a red circle '1'. It contains the following fields:
 - Identifier (Entity ID): https://scope.expert
 - Reply URL (Assertion Consumer Service URL): https://scope.expert/saml/SSO (indicated by a red arrow)
 - Sign on URL: https://scope.expert/saml/SSO
 - Relay State (Optional): Optional
 - Logout Uri (Optional): Optional
- Attributes & Claims:** This section is highlighted with a red circle '2'. It contains the following attributes:
 - givenname: user.givenname
 - surname: user.surname
 - emailaddress: user.mail
 - name: user.userprincipalname
 - Unique User Identifier: user.userprincipalname
- SAML Certificates:** This section is highlighted with a red circle '3'. It contains the following information:
 - Token signing certificate: Active
 - Status: Active
 - Thumbprint: 87F62704F7A67876623A9A5C3FC3BAF6871335DC
 - Expiration: 3/27/2027, 5:48:13 PM
 - Notification Email: [redacted]
 - App Federation Metadata Url: https://login.microsoftonline.com/05a3a06c-4bc6-...
 - Certificate (Base64): [Download]
 - Certificate (Raw): [Download]
 - Federation Metadata XML: [Download]

3. Download Federation Metadata XML

[Upload metadata file](#) |
 [Change single sign-on mode](#) |
 [Test this application](#) |
 [Got feedback?](#)

Unique User Identifier: user.userprincipalname

SAML Certificates

Token signing certificate Edit

Status: Active

Thumbprint: 87F62704F7A67876623A9A5C3FC3BAF6871335DC

Expiration: 3/27/2027, 5:48:13 PM

Notification Email: [Redacted]

App Federation Metadata Url: <https://login.microsoftonline.com/05a3a06c-4bc6-...>

Certificate (Base64): [Download](#)

Certificate (Raw): [Download](#)

Federation Metadata XML: [Download](#)

Verification certificates (optional) Edit

Required: No

Active: 0

Expired: 0

Set up scope-uat

You'll need to configure the application to link with Microsoft Entra ID.

Login URL: <https://login.microsoftonline.com/05a3a06c-4bc6-...>

Microsoft Entra Identifier: <https://sts.windows.net/05a3a06c-4bc6-4023-a70...>

Logout URL: <https://login.microsoftonline.com/05a3a06c-4bc6-...>

Test single sign-on with scope-uat

Test to see if single sign-on is working. Users will need to be added to Users and groups before they can sign in.

[Test](#)

4. Navigate Scope web app. Open Page "Integration Settings" → "SAML 2.0".

Type any name for SAML configuration.

Metadata Source - choose XML

Paste your XML content into the Metadata XML field and Save

SCOPE BETTER | My Scopes | **Manage** | Library | Dashboards | System Admin

Company Details | **Integration Settings** | Application Settings | Data | Office Locations | Scope Type | Clients | Rate Cards | Members | Groups | Output

Integrations

- Trafficking
- Scope Approval Webhook
- Document Signing
- Open API
- SAML 2.0**
- SCIM Groups Mapping

SAML 2.0 configuration

Name: Azure SSO

Enable child accounts

Metadata Source: XML

Metadata XML *

```

<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<EntityDescriptor xmlns="urn:oasis:names:tc:SAML:2.0:metadata" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:oasis:names:tc:SAML:2.0:metadata urn:oasis:names:tc:SAML:2.0:metadata.xsd" >
  <EntityID>https://login.microsoftonline.com/05a3a06c-4bc6-4023-a706-928678630009/saml2/</EntityID>
  <NameIDPolicy Format="urn:oasis:names:tc:SAML:1.1:nameid-format:emailAddress" />
  <SPSSODescriptor Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect" Location="https://login.microsoftonline.com/05a3a06c-4bc6-4023-a706-928678630009/saml2/" />
  <SingleSignOnService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect" Location="https://login.microsoftonline.com/05a3a06c-4bc6-4023-a706-928678630009/saml2/" />
  <SingleSignOnService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST" Location="https://login.microsoftonline.com/05a3a06c-4bc6-4023-a706-928678630009/saml2/" />
  </EntityDescriptor>
  
```

[Save](#)



Known Limitations:

1. Only "Member" level of users can be created. Support for "Groups" and "Roles" are planned for future releases. If required once the user is created in Scope, an Scope Admin can elevate permissions from Scope Directly.

Optional

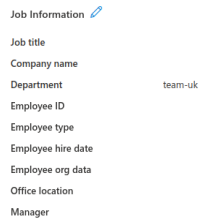
Setup Azure/OneLogin for Instance Selection

The SCIM implementation has been extended with a new feature that allows you to:

- Select any **child instance** directly from **Azure** or **OneLogin**.
- Assign users to these instances without additional configurations.

This enhancement streamlines the process of managing user assignments across multiple child instances directly from your identity provider.

This feature works with the value of "Department" field, available in both OneLogin and Azure and given in the screenshots below:



Values:

The API is going to accept subdomain of instance in Department field. For an example if your child instance URL looks like this:

<https://uk-team-demo.scope.expert>

The acceptable value for Department field would be `uk-team-demo`. If no value is specified the user will go to parent instance.

Setup:

OneLogin:

We need to update the SCIM schema to enable this feature and add 2 elements as given below.

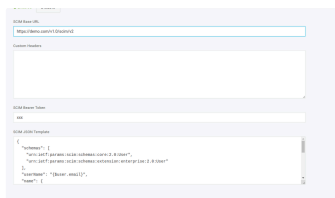
```
1 {
```

```

2  "schemas": [
3    "urn:ietf:params:scim:schemas:core:2.0:User",
4    "urn:ietf:params:scim:schemas:extension:enterprise:2.0:User" <--- Added
5  ],
6  "userName": "${user.email}",
7  "name": {
8    "givenName": "${user.firstname}",
9    "familyName": "${user.lastname}"
10 },
11 "emails": [
12   {
13     "value": "${user.email}",
14     "primary": true,
15     "type": "work"
16   }
17 ],
18 "urn:ietf:params:scim:schemas:extension:enterprise:2.0:User": { <--- Added
19   "department": "${user.department}"
20 }
21 }

```

This config is available in Applications > Selected App > Configurations > SCIM Json Template



Azure:

Azure takes care of schema, we just need to make sure the mapping is available here:

Attribute Name	Attribute Type	Attribute Value
id	string	...
username	string	...
password	string	...
email	string	...
first_name	string	...
last_name	string	...
department	string	...
...

This field should be available.

