

# Azure SSO/SCIM Setup

## Requirements

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

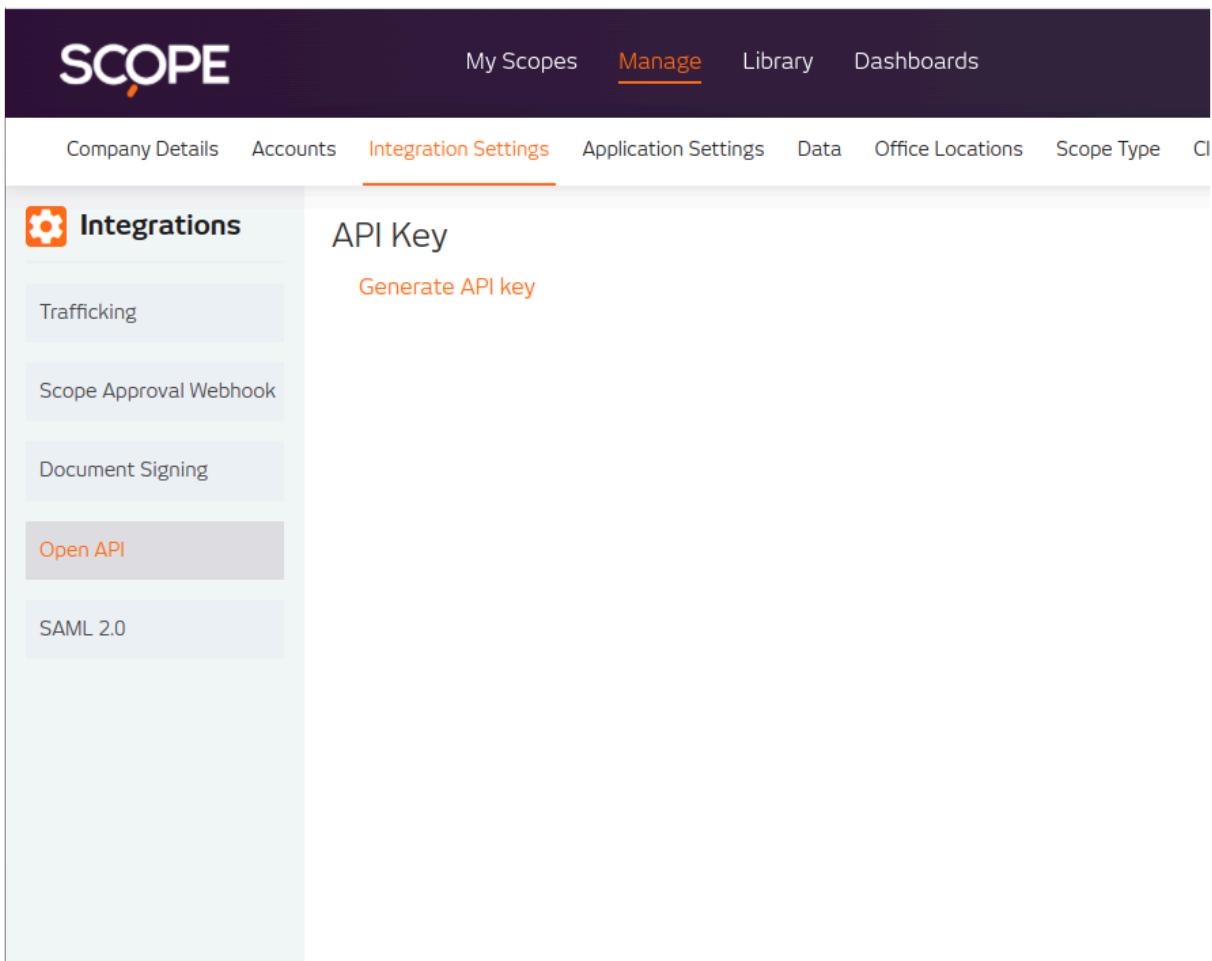
### 1. Active Directory

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.

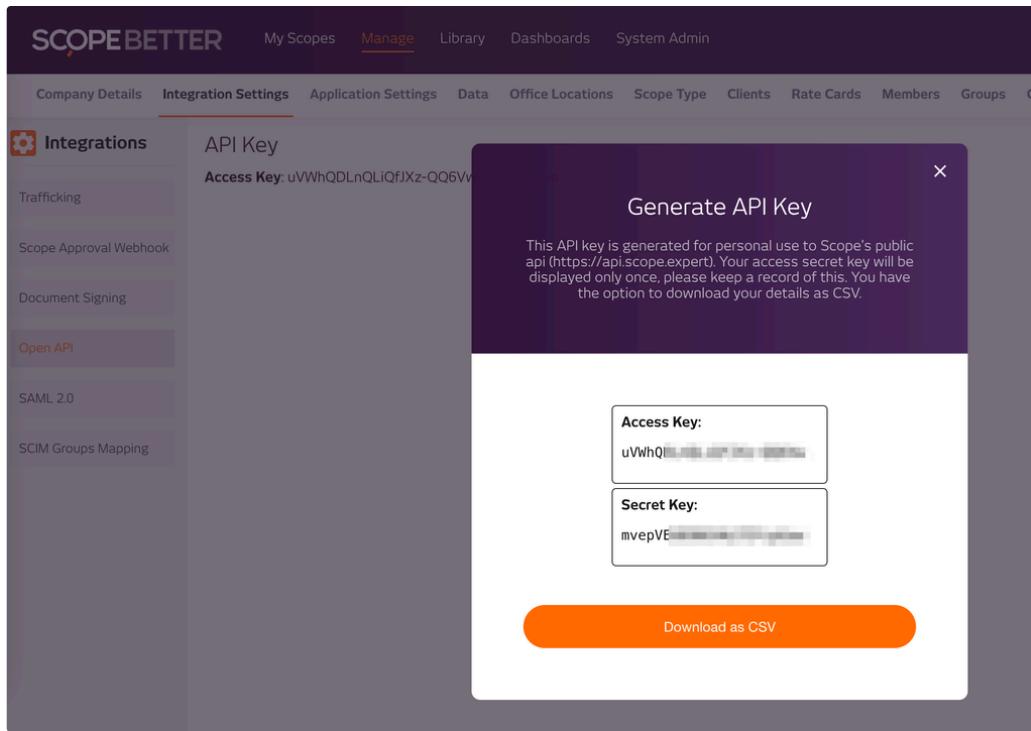
### 2. Generate API Key.

How to Obtain OpenAPI Credentials:

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



The screenshot shows the SCOPE application interface. The top navigation bar includes links for My Scopes, Manage (which is underlined in orange), Library, and Dashboards. Below the navigation, a secondary navigation bar lists Company Details, Accounts, Integration Settings (which is highlighted in orange), Application Settings, Data, Office Locations, Scope Type, and CI. On the left, a sidebar titled 'Integrations' contains links for Trafficking, Scope Approval Webhook, Document Signing, Open API (which is highlighted in orange), and SAML 2.0. The main content area is titled 'API Key' and features a 'Generate API key' button.



### 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.

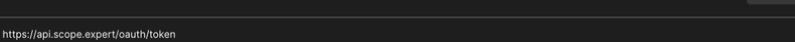
#### 4. Send the Request:

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.

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



The screenshot shows the Postman interface with the following details:

- URL:** `https://api.scope.expert/oauth/token`
- Method:** POST
- Authorization Type:** Basic Auth
- Username:** `scope-public-api_scim`
- Password:** `scope-public-api_scim`

## Configure SCIM app in Azure:

**i** Before starting 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.

The Microsoft Entra App Gallery is a catalog of thousands of apps that make it easy to deploy and configure single-sign-on (SSO) and automated user provisioning. When deploying an app, you can browse or create your own application here. If you are wanting to publish an application you have developed into the Microsoft Entra Gallery for other organizations to discover.

**Create your own application**

Got feedback?

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?

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)

1

2

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

**Properties**

- Name:
- Application ID: 1c3b6864-f942-47c4-9ff...
- Object ID: e8690aa4-b313-4eac-b5...

**Getting Started**

- 1. Assign users and groups
- 2. Set up single sign on
- 3. Provision User Accounts
- 4. Conditional Access
- 5. Self service

3. Provision User Accounts

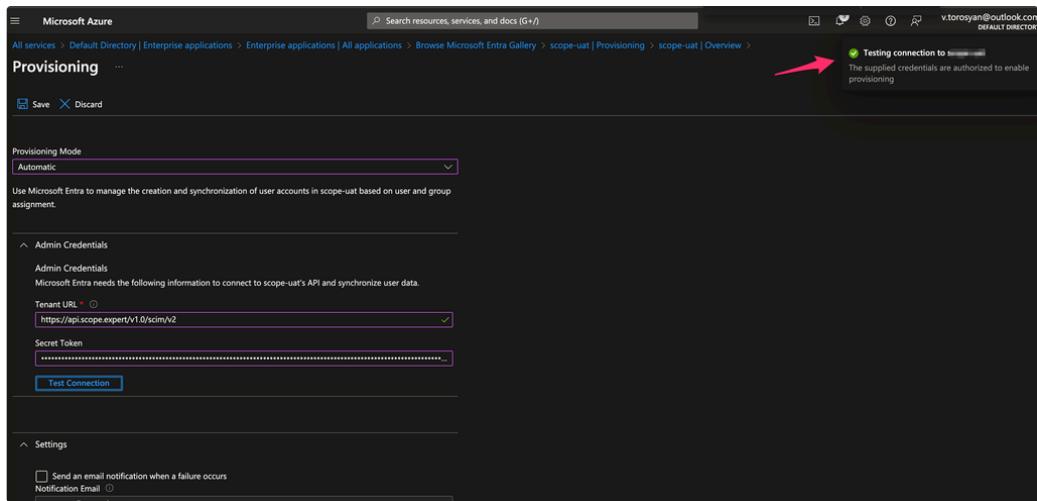
Automatically create and delete user accounts in the application

Get started

4

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.



The screenshot shows the Microsoft Azure 'Provisioning' configuration page. At the top right, there is a green checkmark icon with the text 'Testing connection to [REDACTED]' and the subtext 'The supplied credentials are authorized to enable provisioning'. A red arrow points to this status message. The page includes sections for 'Provisioning Mode' (set to 'Automatic'), 'Admin Credentials' (with 'Tenant URL' set to 'https://api.scope.expern/v1.0/scim/v2' and 'Secret Token' as a redacted string), and 'Settings' (with an unchecked checkbox for 'Send an email notification when a failure occurs' and a 'Notification Email' field containing 'v.torosyan@outlook.com').

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.

Attribute	Value	Count	Action
userPrincipalName	userPrincipalName	1	Delete
isSoftDeleted	active	1	Delete
displayName	displayName	1	Delete

*Note: The provisioning only happens when you assign a directory user to the app you've created. It's a straightforward process.*

Active Directory > Enterprise Applications > Your app

## Scope Test Integration App | Users and groups

Enterprise Application

« + 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. →

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

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.

Home > Default Directory | Enterprise applications > Enterprise applications | All applications > scope-uat

## scope-uat | Single sign-on

Enterprise Application

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

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](#)

- Single sign-on** 1
- SAML** 2
- Linked**
- Password-based**

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.

**Linked** Link to an application in My Apps and/or Office 365 application launcher.

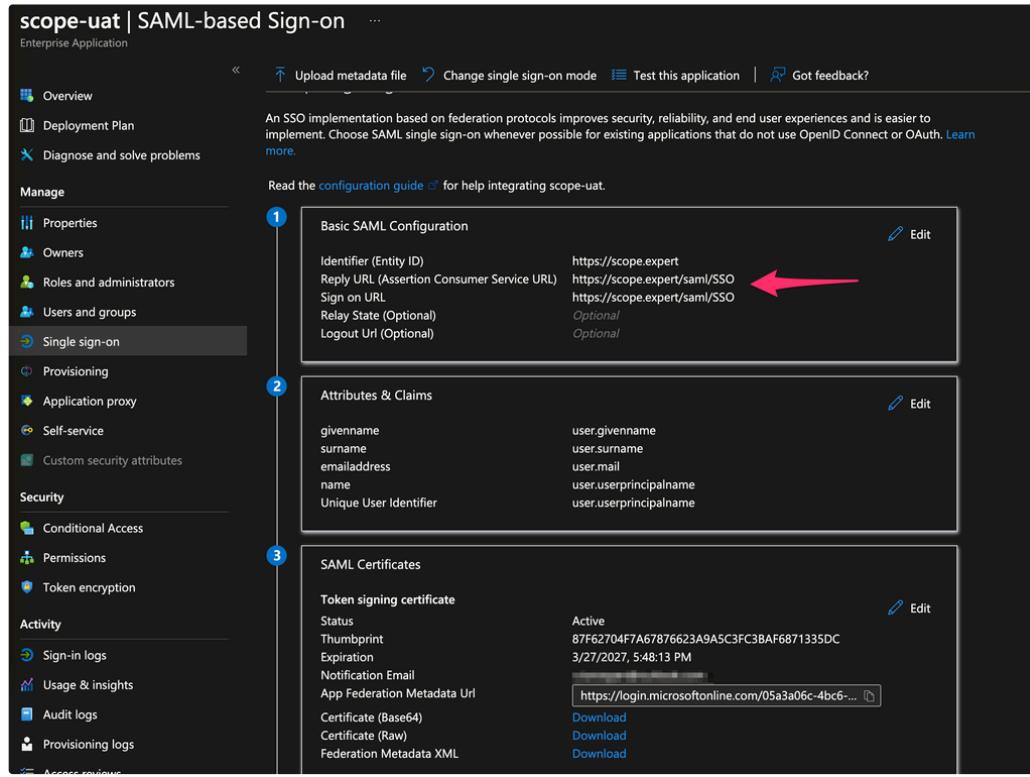
**Password-based** Password storage and replay using a web browser extension or mobile app.

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>



scope-uat | SAML-based Sign-on

Enterprise Application

Overview Deployment Plan Diagnose and solve problems

Manage

- Properties
- Owners
- Roles and administrators
- Users and groups
- Single sign-on **Selected**
- Provisioning
- Application proxy
- Self-service
- Custom security attributes

Security

- Conditional Access
- Permissions
- Token encryption

Activity

- Sign-in logs
- Usage & insights
- Audit logs
- Provisioning logs

Basic SAML Configuration

Identifier (Entity ID)	<a href="https://scope.expert">https://scope.expert</a>	<a href="#">Edit</a>
Reply URL (Assertion Consumer Service URL)	<a href="https://scope.expert/saml/SSO">https://scope.expert/saml/SSO</a>	<a href="#">Edit</a>
Sign on URL	<a href="https://scope.expert/saml/SSO">https://scope.expert/saml/SSO</a>	<a href="#">Edit</a>
Relay State (Optional)	<i>Optional</i>	
Logout Url (Optional)	<i>Optional</i>	

Attributes & Claims

givenname	user.givenname
surname	user.surname
emailaddress	user.mail
name	user.userprincipalname
Unique User Identifier	user.userprincipalname

SAML Certificates

Token signing certificate	<a href="#">Edit</a>
Status	Active
Thumbprint	87F62704F7A67876623A9A5C3FC3BAF6871335DC
Expiration	3/27/2027, 5:48:13 PM
Notification Email	[REDACTED]
App Federation Metadata Url	<a href="https://login.microsoftonline.com/05a3a06c-4bc6-410b-8a2a-1a2a2a2a2a2a/metadata">https://login.microsoftonline.com/05a3a06c-4bc6-410b-8a2a-1a2a2a2a2a2a/metadata</a>
Certificate (Base64)	<a href="#">Download</a>
Certificate (Raw)	<a href="#">Download</a>
Federation Metadata XML	<a href="#">Download</a>

3. Download Federation Metadata XML

3 Unique User Identifier user.userprincipalname

SAML Certificates

Token signing certificate

Status Active

Thumbprint 87F62704F7A67876623A9A5C3FC3BAF6871335DC

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

Notification Email [REDACTED]

App Federation Metadata Url <https://login.microsoftonline.com/05a3a06c-4bc6-11ea-8d3a-000000000000/FederationMetadata/2007-06/FederationMetadata.xml>

Certificate (Base64) [Download](#)

Certificate (Raw) [Download](#)

Federation Metadata XML [Download](#) 

Verification certificates (optional)

Required No

Active 0

Expired 0

4 Set up scope-uat

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

Login URL <https://login.microsoftonline.com/05a3a06c-4bc6-11ea-8d3a-000000000000>

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

Logout URL <https://login.microsoftonline.com/05a3a06c-4bc6-11ea-8d3a-000000000000>

5 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



## 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

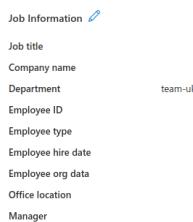
### Setup Azure/OneLogin for Instance Selection

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 }

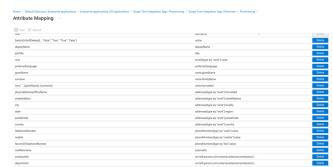
```

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:



This field should be available.