LSEG Workspace | Entra

Administrator's Activation Guide

LSEG DATA & ANALYTICS

Contents

About this document

LSEG Workspace now supports user authentication through Microsoft Entra. This document describes the steps that are performed to associate users in your organisation with Workspace, allowing them to access the product seamlessly.

Intended readership

The LSEG Workspace – Entra Administrator’s Activation Guide is intended for administrators on customer sites that are responsible for the maintenance of Workspace and Microsoft Entra tenants.

Contact information

To:

- Receive further assistance, contact Support.
- Provide feedback on Workspace technical content, contact DocFeedback@lseg.com.

Prerequisites

To enrol users for Entra authentication into Workspace, the following conditions must be met:

- You must have access to Workspace to provision credentials for System Cross-domain Identity Management (SCIM)[1].
- You also require access to the Workspace Admin Tools app to register your Entra tenant.

Important: Initial access to the Workspace Admin Tools app does not include the tenant registration process, for which additional privileges are required.

To request these privileges, either contact LSEG through the MyAccount Support channel or contact your dedicated Account Team.

[1] SCIM is a protocol used to standardise how identity information is exchanged between entities.

Entra setup steps

Setting up users for Entra access involves performing the following steps, which are discussed in the sections that follow:

- Accessing the Client Admin Tools app
- Finding your Entra tenant ID
- Provisioning the Workspace gallery application
- Registering your tenant in Client Admin Tools
- Setting up an app in the Entra admin portal
- Mapping application attributes
- Provisioning users in the Entra admin portal

Also, following these steps, the Useful links section contains links to additional material provided by third parties.

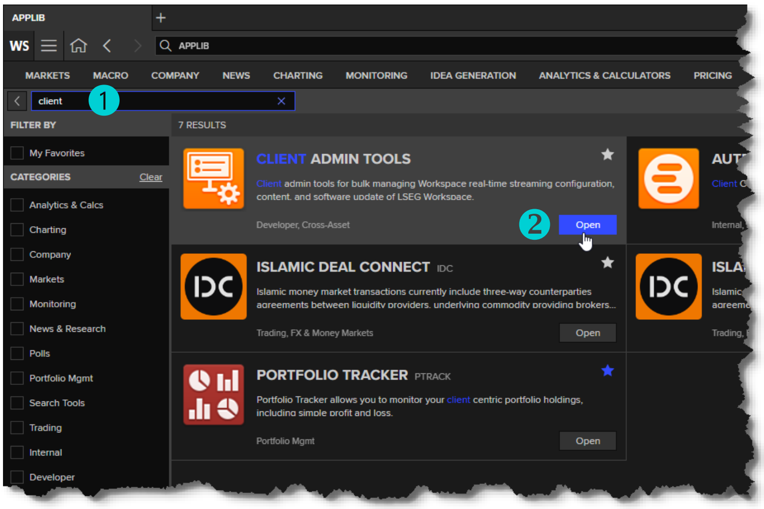
Accessing the Client Admin Tools app

To access the Client Admin Tools app:

1. Log in to Workspace.
2. Select **WS > App Library**.

   Alternatively, to open the App Library in a new browser, press **Alt+L**
3. To filter the app list, in the Search box ❶, type **Client**.

   The apps are filtered, as shown in the example, opposite.
4. To run the Client Admin Tools app, click **Open** ❷.

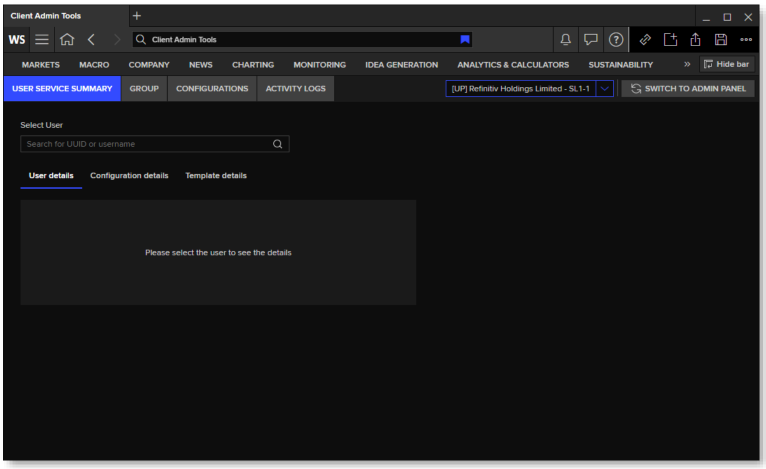


Client admin tools for bulk managing Workspace real-time streaming configuration, content, and software update of LSEG Workspace.

Islamic money market transactions currently include three-way counterparties agreements between liquidity providers, underlying commodity providing brokers...

Portfolio Tracker allows you to monitor your client centric portfolio holdings, including simple profit and loss.

The Client Admin Tools app launches in the same browser window.



Please select the user to see the details

Finding your Entra tenant ID

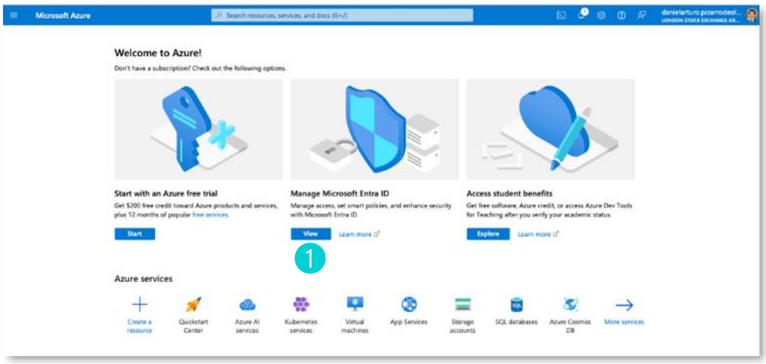
Your Microsoft Entra tenant ID is the unique identifier for your organisation that is assigned by Microsoft. You need this ID to register your tenant in the Client Admin Tools app.

To find this code:

1. Log in to https://portal.azure.com/#home.

   The Microsoft Azure Welcome page opens (opposite).

2. Click the Manage Microsoft Entra ID **View** ❶ button.



Welcome to Azure!

Don't have a subscription? Check out the following options.

Start with an Azure free trial

Get $200 free credit toward Azure products and services, plus 12 months of popular free services.

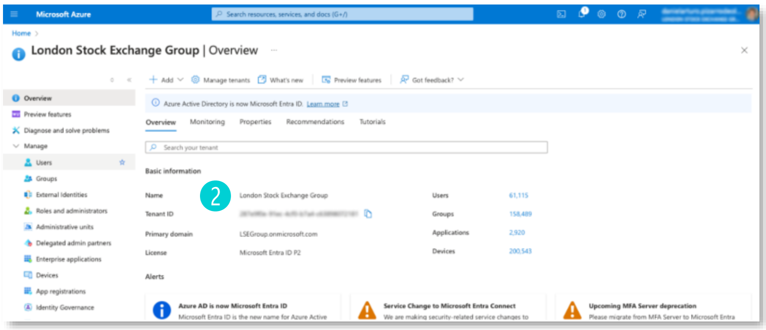
Manage Microsoft Entra ID

Manage access, set smart policies, and enhance security with Microsoft Entra ID.

Access student benefits

Get free software, Azure credit, or access Azure Dev Tools for Teaching after you verify your academic status.

The **Overview** page opens (opposite) where the Tenant ID ❷ is shown under the Basic Information section.



London Stock Exchange Group | Overview

Azure Active Directory is now Microsoft Entra ID. Learn more

Basic information

Name	London Stock Exchange Group	Users	61,115
Tenant ID	[redacted]	Groups	158,489
Primary domain	LSEGroup.onmicrosoft.com	Applications	2,920
License	Microsoft Entra ID P2	Devices	200,543

Alerts

Azure AD is now Microsoft Entra ID

Microsoft Entra ID is the new name for Azure Active

Service Change to Microsoft Entra Connect

We are making security-related service changes to

Upcoming MFA Server deprecation

Please migrate from MFA Server to Microsoft Entra

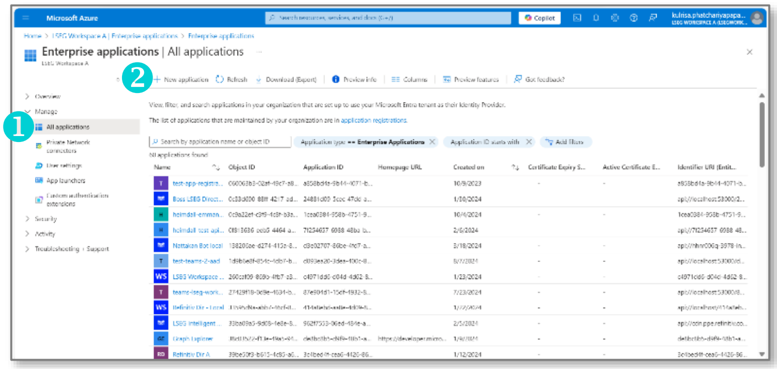
Provisioning the Workspace gallery application

The Workspace gallery application must be provisioned to your Entra tenant. This allows users to access the Workspace application[2] using their Microsoft credentials.

Once the application has been provisioned to the tenant, your conditional access policies, such as MFA, compliant devices, and so on, can be applied. To find further information on conditional access policies, refer to the Plan a Conditional Access deployment page on Microsoft Learn.

To provision Workspace to your Entra tenant, do the following:

1. On your Microsoft Azure portal, navigate to **Enterprise applications > Manage > All applications** ❶ and select **New application** ❷.

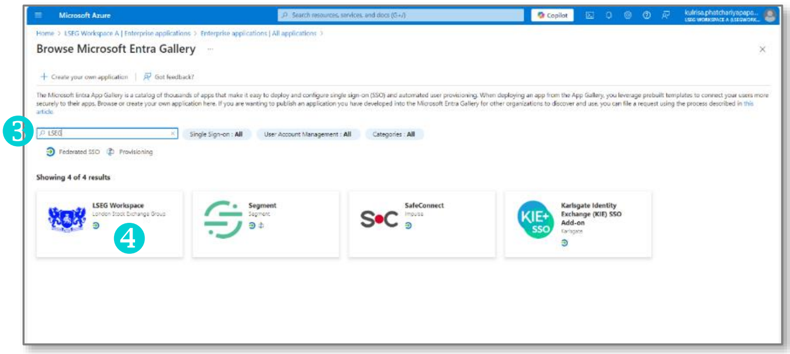

Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
Home > LSEG Workspace A | Enterprise applications > Enterprise applications
Enterprise applications | All applications
LSEG Workspace A
2
1
Overview
Manage
All applications
Private Network connectors
User settings
App launchers
Custom authentication extensions
Security
Activity
Troubleshooting + Support
New application
Refresh
Download (Export)
Preview info
Columns
Preview features
Got feedback?
Search by application name or object ID
Application type == Enterprise Applications
Application ID starts with
Add filters
Name
Object ID
Application ID
Homepage URL
Created on
Certificate Expiry S...
Active Certificate E...
Identifier URI (Entit...

View, filter, and search applications in your organization that are set up to use your Microsoft Entra tenant as their Identity Provider.

The list of applications that are maintained by your organization are in application registrations.

All applications found

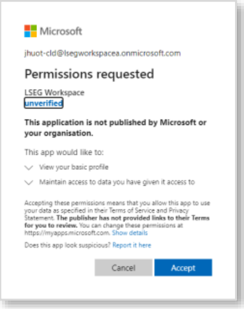
2. In the Search box ❸, type **LSEG**.
3. From the filtered list, select the **LSEG Workspace** app ❹.


Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
Home > LSEG Workspace A | Enterprise applications > Enterprise applications | All applications >
Browse Microsoft Entra Gallery
Create your own application
Got feedback?
3
LSEG
Single Sign-on : All
User Account Management : All
Categories : All
Federated SSO
Provisioning
Showing 4 of 4 results
LSEG Workspace
London Stock Exchange Group
4
Segment
Segment
SafeConnect
Impulse
Karlsgate Identity Exchange (KIE) SSO Add-on
Karlsgate

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 from the App Gallery, you leverage prebuilt templates to connect your users more securely to their apps. 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 and use, you can file a request using the process described in this article.

The LSEG Workspace app panel is displayed.

4. Click the **Sign up for LSEG Workspace** button.
5. In the Permissions requested dialog, click **Accept** [3].



jhuot-cld@lsegworkspacea.onmicrosoft.com

Permissions requested

LSEG Workspace
unverified

This application is not published by Microsoft or your organisation.

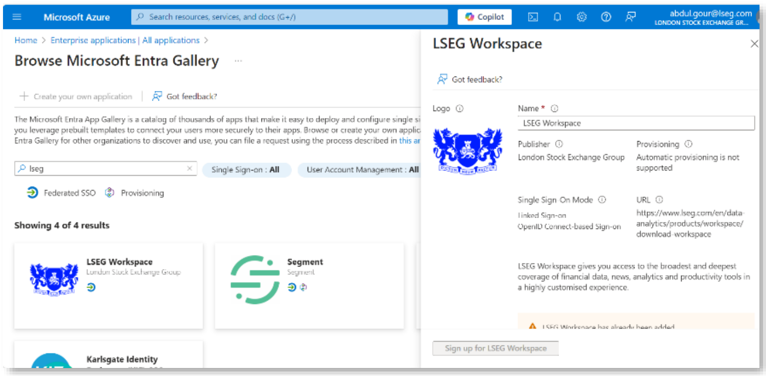
This app would like to:

- View your basic profile
- Maintain access to data you have given it access to

Accepting these permissions means that you allow this app to use your data as specified in their Terms of Service and Privacy Statement. **The publisher has not provided links to their Terms for you to review.** You can change these permissions at https://myapps.microsoft.com. Show details

Does this app look suspicious? Report it here

Following this, the app is installed to your tenant.


Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
abdul.gour@lseg.com
LONDON STOCK EXCHANGE GR...
Home > Enterprise applications | All applications >
Browse Microsoft Entra Gallery
Create your own application
Got feedback?
lseg
Single Sign-on : All
User Account Management : All
Federated SSO
Provisioning
Showing 4 of 4 results
LSEG Workspace
London Stock Exchange Group
Segment
Segment
Karlsgate Identity
Got feedback?
Sign up for LSEG Workspace

LSEG Workspace

Logo

Name *: LSEG Workspace

Publisher: London Stock Exchange Group

Provisioning: Automatic provisioning is not supported

Single Sign-On Mode: Linked Sign-on, OpenID Connect-based Sign-on

URL: https://www.lseg.com/en/data-analytics/products/workspace/download-workspace

LSEG Workspace gives you access to the broadest and deepest coverage of financial data, news, analytics and productivity tools in a highly customised experience.

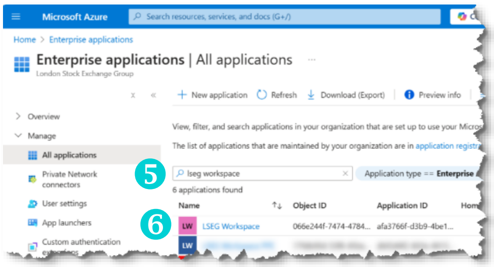
LSEG Workspace has already been added

[2] The currently supported Workspace application variants are **Workspace | Web** and **Workspace | OpenFin**.

[3] Currently, as your credentials will not be valid for Workspace, a “We are having trouble logging you in” error message is displayed. This can be ignored and will be fixed in future versions.

6. Return to **Enterprise applications > Manage > All applications**.
7. In the Search box ❺, type **LSEG Workspace**.
8. From the filtered list, select the LSEG Workspace application with the pink logo, highlighted in the screenshot ❻.

   The LSEG Workspace Overview panel is displayed (see step 7, below).


Microsoft Azure
Search resources, services, and docs (G+/)
Home > Enterprise applications
Enterprise applications | All applications
London Stock Exchange Group
New application
Refresh
Download (Export)
Preview info
Overview
Manage
All applications
Private Network connectors
User settings
App launchers
Custom authentication extensions
5
6
Application type == Enterprise
LW
LW

View, filter, and search applications in your organization that are set up to use your Micros

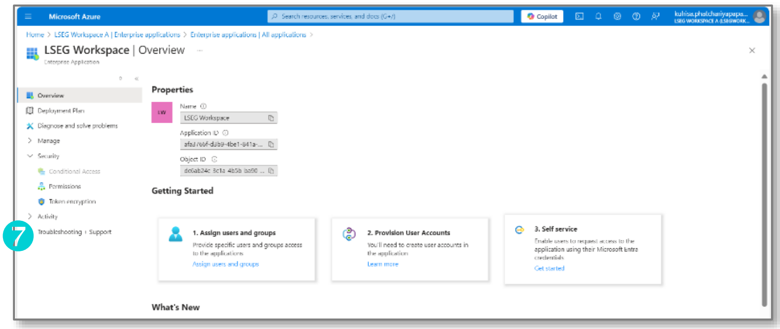
The list of applications that are maintained by your organization are in application registra

lseg workspace

6 applications found

Name	Object ID	Application ID	Hom
LSEG Workspace	066e244f-7474-4784...	afa3766f-d3b9-4be1...	

9. In the left-hand menu of the LSEG Workspace Overview panel, select **Security > Permissions** ❼.


Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
kulrisa.phatchariyapapa...
LSEG WORKSPACE A (LSEGWORK...
Home > LSEG Workspace A | Enterprise applications > Enterprise applications | All applications >
LSEG Workspace | Overview
Enterprise Application
Overview
Deployment Plan
Diagnose and solve problems
Manage
Security
Conditional Access
Permissions
Token encryption
Activity
Troubleshooting + Support
7
Properties
LW
Getting Started
What's New

Name: LSEG Workspace

Application ID: afa3766f-d3b9-4be1-841a-...

Object ID: d06ab24c 8c1a 4b5b ba90 ...

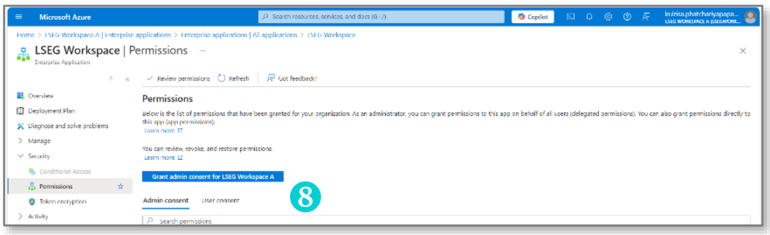
1. Assign users and groups — Provide specific users and groups access to the applications — Assign users and groups

2. Provision User Accounts — You'll need to create user accounts in the application — Learn more

3. Self service — Enable users to request access to the application using their Microsoft Entra credentials — Get started

The LSEG Workspace permissions panel is displayed (opposite).

10. Select the **Grant admin consent for London Stock Exchange Group** button ❽.


Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
kulrisa.phatchariyapapa...
LSEG WORKSPACE A (LSEGWORK...
Home > LSEG Workspace A | Enterprise applications > Enterprise applications | All applications > LSEG Workspace
LSEG Workspace | Permissions
Enterprise Application
Review permissions
Refresh
Got feedback?
Overview
Deployment Plan
Diagnose and solve problems
Manage
Security
Conditional Access
Permissions
Token encryption
Activity
Permissions
Learn more
Learn more
Grant admin consent for LSEG Workspace A
8
Admin consent
User consent
Search permissions

Below is the list of permissions that have been granted for your organization. As an administrator, you can grant permissions to this app on behalf of all users (delegated permissions). You can also grant permissions directly to this app (app permissions).

You can review, revoke, and restore permissions.

Additional resources

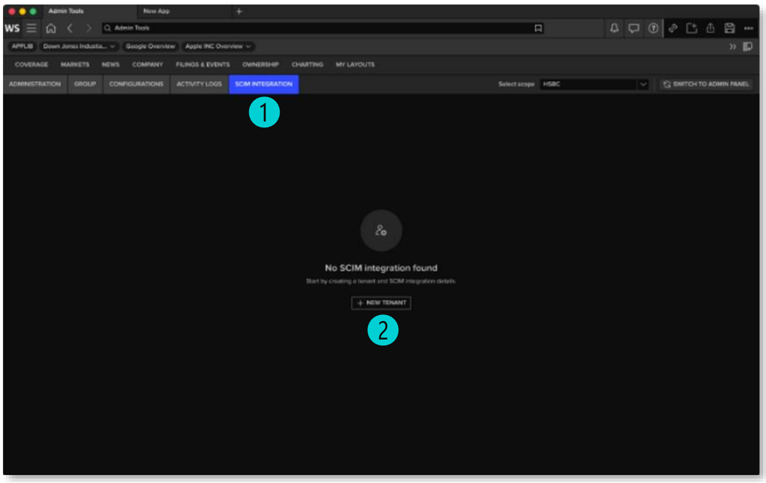
For further information about:

- Granting admin consent to applications, refer to the Microsoft Learn [Grant tenant-wide admin consent to an application]() page.
- App validation, refer to the Microsoft Learn [What is app provisioning in Microsoft Entra ID?]() page.

Registering your tenant in Client Admin Tools

To register your tenant in the Client Admin Tools app:

1. Run LSEG Workspace and open the Client Admin Tools app.
2. Select the **SCIM INTEGRATION** menu item ❶.
3. In the centre of the SCIM Integration panel, click the **+ NEW TENANT** button ❷.



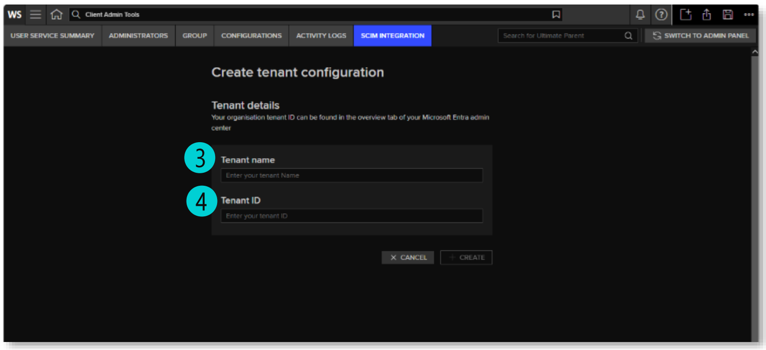
No SCIM integration found

Start by creating a tenant and SCIM integration details

4. Enter the Tenant Name ❸ and Tenant ID ❹ of your organisation (see [Finding your Entra tenant ID]) and click **CREATE**.

   Once the following automated tasks have been performed (denoted by a green checkbox), the setup has been successful.

   - Creating application
   - Certifying application
   - Certifying service account
   - Assigning license
   - Creating tenant configuration



Create tenant configuration

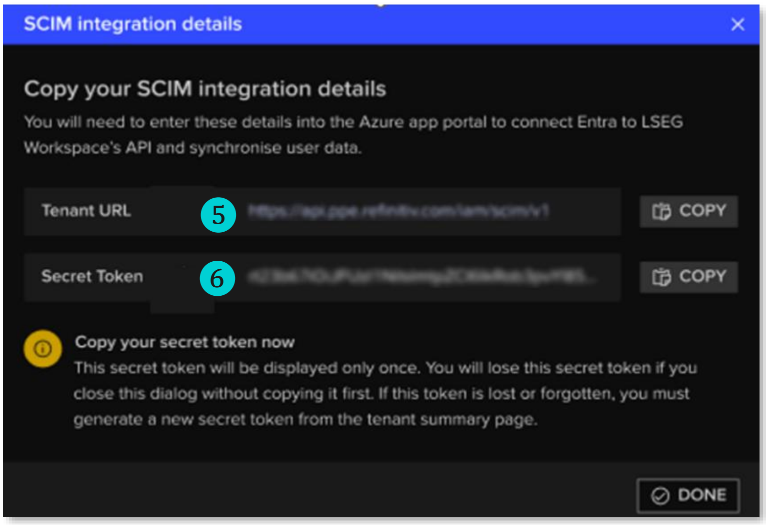
Tenant details

Your organisation tenant ID can be found in the overview tab of your Microsoft Entra admin center

Tenant name: Enter your tenant Name

Tenant ID: Enter your tenant ID

5. Copy the generated Tenant URL ❺ and Secret Token ❻ individually into a text tool, such as Notepad.



Copy your SCIM integration details

You will need to enter these details into the Azure app portal to connect Entra to LSEG Workspace's API and synchronise user data.

Tenant URL: [redacted]

Secret Token: [redacted]

Copy your secret token now

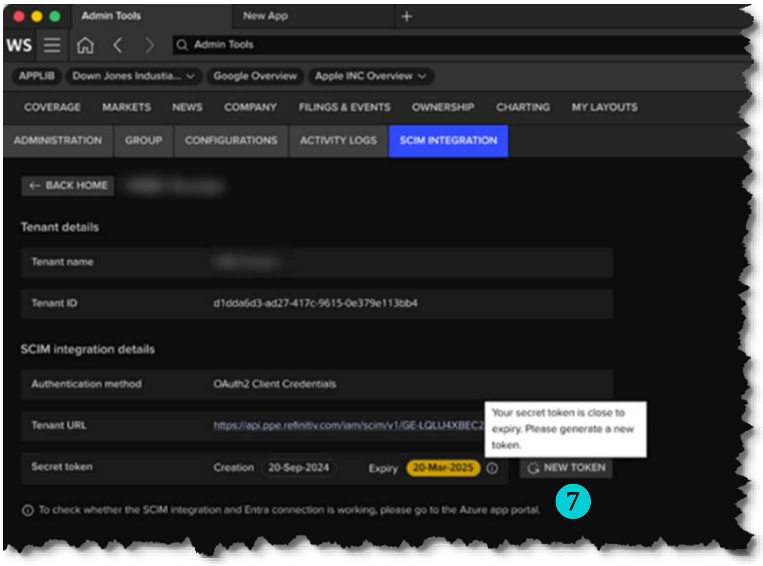
This secret token will be displayed only once. You will lose this secret token if you close this dialog without copying it first. If this token is lost or forgotten, you must generate a new secret token from the tenant summary page.

Generating a new Secret Token

The secret token has a validity of six months. When the token is within 30 days of expiry, the date will be highlighted in amber, along with a warning pop-up box.

If the Secret Token has expired, a new token must be generated to re-link the Entra tenant to Workspace This is done by following the steps below:

1. Navigate to the Admin Tools app.
2. Select the **SCIM integration** menu item.
3. Select your tenant from the tenant list.
4. Under the SCIM integration details section, select the **New Token** button 7.



Tenant details

Tenant name

Tenant ID d1dda6d3-ad27-417c-9615-0e379e113bb4

SCIM integration details

Authentication method OAuth2 Client Credentials

Tenant URL https://api.ppe.refinitiv.com/iam/scim/v1/GE-LQLU4XBEC2

Secret token Creation 20-Sep-2024 Expiry 20-Mar-2025

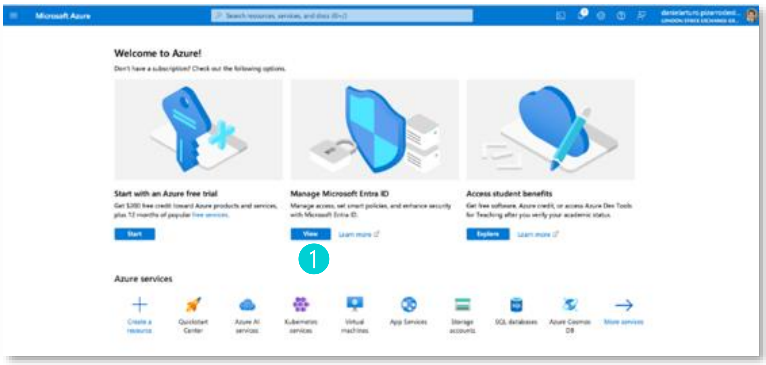
Your secret token is close to expiry. Please generate a new token.

ⓘ To check whether the SCIM integration and Entra connection is working, please go to the Azure app portal.

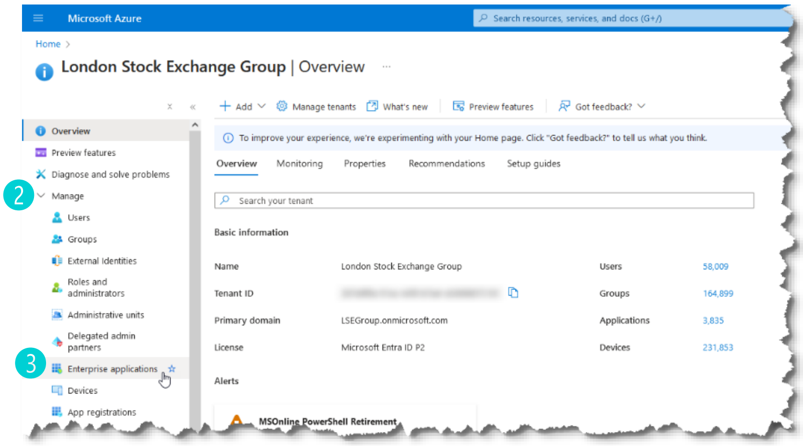
Setting up an app in the Entra admin portal

To set up an app in the Entra admin portal that allows users to be provisioned to any LSEG application that is integrated with Entra, do the following:

1. Log in to https://portal.azure.com/#home.
2. Click the Manage Microsoft Entra ID **View** button ❶.
3. The Overview page opens.



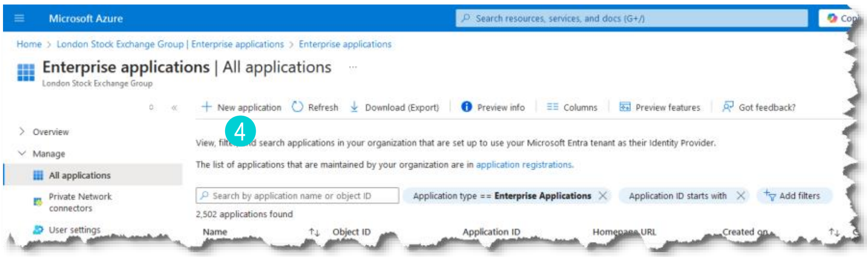
4. From the left-side menu, select **Manage** ❷ > **Enterprise Applications** ❸.



To improve your experience, we're experimenting with your Home page. Click "Got feedback?" to tell us what you think.

Name	London Stock Exchange Group	Users	58,009
Tenant ID		Groups	164,899
Primary domain	LSEGroup.onmicrosoft.com	Applications	3,835
License	Microsoft Entra ID P2	Devices	231,853

5. Under the All applications panel, select **New application** ❹.


Microsoft Azure
Search resources, services, and docs (G+/)
Home > London Stock Exchange Group | Enterprise applications > Enterprise applications
Enterprise applications | All applications
London Stock Exchange Group
New application
Refresh
Download (Export)
Preview info
Columns
Preview features
Got feedback?
4
Overview
Manage
All applications
Private Network connectors
User settings
Search by application name or object ID
Application type == Enterprise Applications
Application ID starts with
Add filters
Name
Object ID
Application ID
Homepage URL
Created on

View, filter, and search applications in your organization that are set up to use your Microsoft Entra tenant as their Identity Provider.

The list of applications that are maintained by your organization are in application registrations.

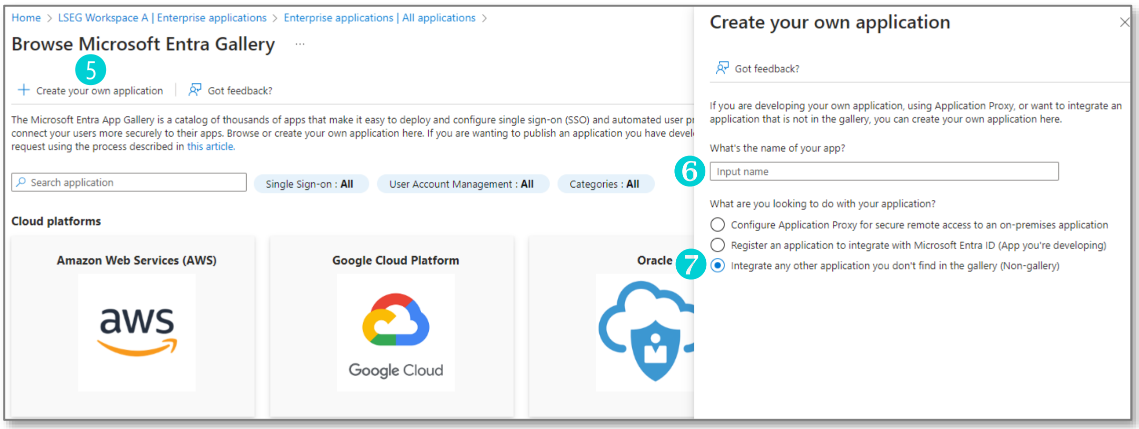
2,502 applications found

6. Click **Create your own application** ❺.

   The Create your own application side panel appears.

7. In the **What is the name of your app?** box ❻, type **LSEG SCIM**.

8. Under **What are you looking to do with your application?**, select **Integrate any other application you don’t find in the gallery (Non-gallery)** ❼.


Home > LSEG Workspace A | Enterprise applications > Enterprise applications | All applications >
Browse Microsoft Entra Gallery
5
Create your own application
Got feedback?
Search application
Single Sign-on : All
User Account Management : All
Categories : All
Cloud platforms
Amazon Web Services (AWS)
aws
Google Cloud Platform
Google Cloud
Oracle
Create your own application
Got feedback?
6
Input name
7

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 pr connect your users more securely to their apps. Browse or create your own application here. If you are wanting to publish an application you have devel 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?

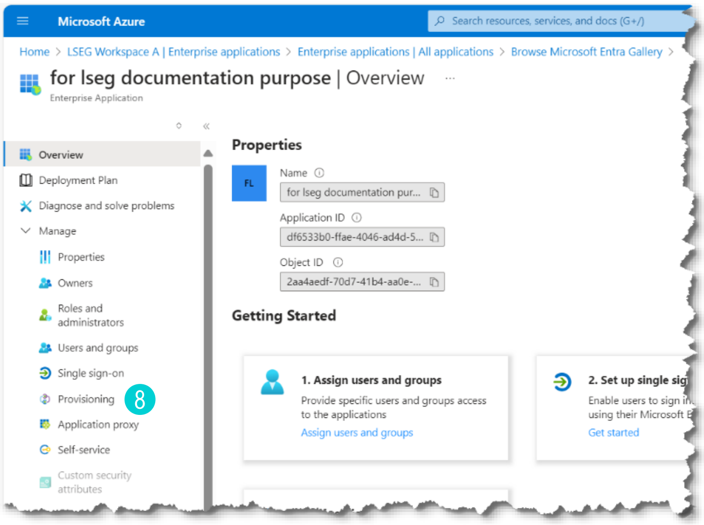
What are you looking to do with your application?

○ 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)

9. Click the **Create** button, at the bottom of the side panel (not shown in the illustration, above).

A new application overview page, opposite, opens.

10. In the left-side menu, select **Manage > Provisioning** ⑧.


Microsoft Azure
Search resources, services, and docs (G+/)
Home > LSEG Workspace A | Enterprise applications > Enterprise applications | All applications > Browse Microsoft Entra Gallery >
for lseg documentation purpose | Overview
Enterprise Application
Overview
Deployment Plan
Diagnose and solve problems
Manage
Properties
Owners
Roles and administrators
Users and groups
Single sign-on
Provisioning
8
Application proxy
Self-service
Custom security attributes
Properties
FL
Getting Started
1. Assign users and groups
Assign users and groups
2. Set up single sig
Get started

Name: for lseg documentation pur...

Application ID: df6533b0-ffae-4046-ad4d-5...

Object ID: 2aa4aedf-70d7-41b4-aa0e-...

Provide specific users and groups access to the applications

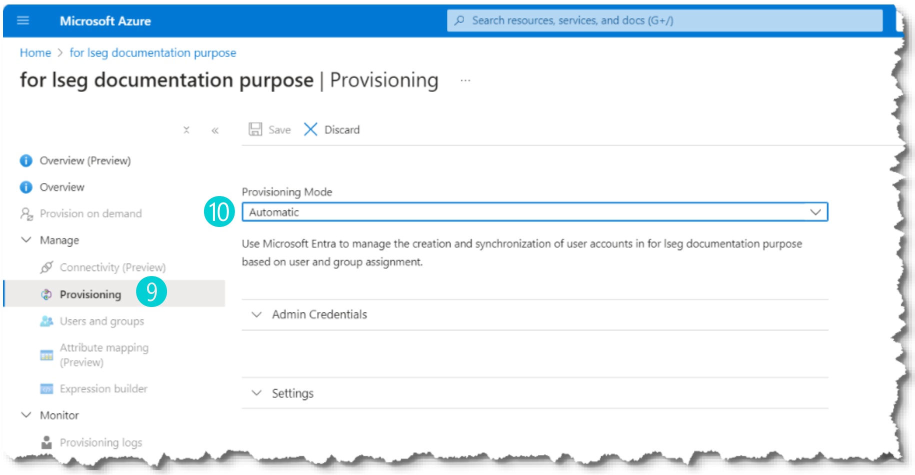
Enable users to sign in using their Microsoft E

11. In the Overview (Preview) panel, select **Manage > Provisioning** ⑨.

    This displays the Provisioning panel, which is comprised of three expandable sections:

    - Provisioning Mode
    - Admin Credentials
    - Settings

12. In the **Provisioning Mode** section, select **Automatic** ⑩.



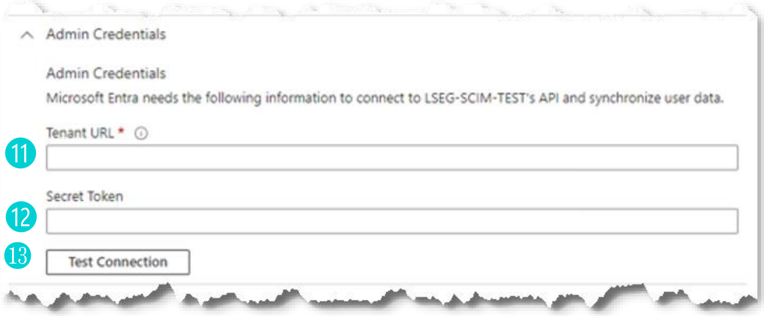
Provisioning Mode: Automatic

Use Microsoft Entra to manage the creation and synchronization of user accounts in for lseg documentation purpose based on user and group assignment.

13. In the Admin Credentials section, enter **Tenant URL** ⑪ and **Secret Token** ⑫, obtained from Step 7 above.

14. In the Settings section of the panel, ensure **Provisioning Status** is set to **Off**[4].

15. Click **Test Connection** ⑬.



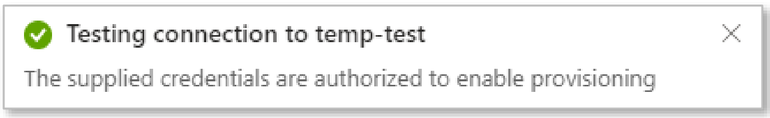
Admin Credentials

Microsoft Entra needs the following information to connect to LSEG-SCIM-TEST's API and synchronize user data.

Tenant URL *

Secret Token

If the test is successful, a green tick will appear, together with a message confirming the supplied credentials are authorised to enable provisioning.



Testing connection to temp-test

The supplied credentials are authorized to enable provisioning

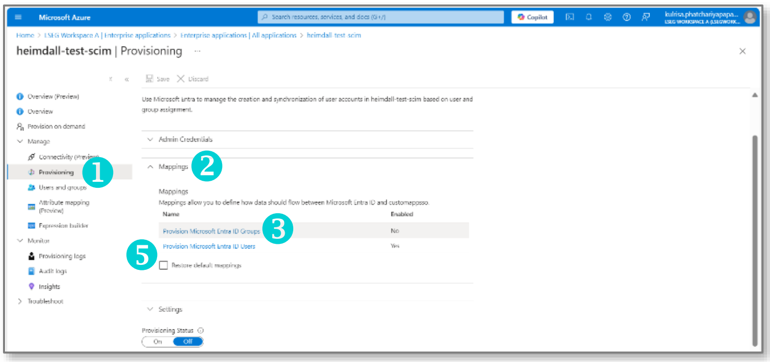
[4] The **Provisioning Statis** slider switch is shown in the illustration at the top of the following page.

Mapping application attributes

To synchronise user and group attributes between Azure Active Directory and the target Workspace application, follow the instructions in the sections below.

Mapping group attributes

1. From the left-side menu, select **Manage > Provisioning** ①.
2. Expand the **Mappings** section ② and click **Provision Microsoft Entra ID Groups** ③.


Home > LSEG Workspace A | Enterprise applications > Enterprise applications | All applications > heimdall-test-scim

heimdall-test-scim | Provisioning

Use Microsoft Entra to manage the creation and synchronization of user accounts in heimdall-test-scim based on user and group assignment.

Mappings

Mappings allow you to define how data should flow between Microsoft Entra ID and customappsso.

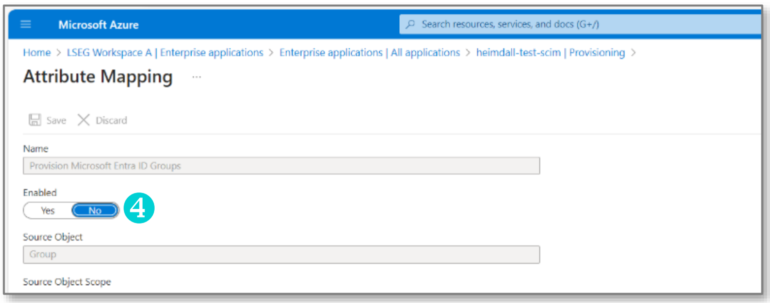
Name	Enabled
Provision Microsoft Entra ID Groups	No
Provision Microsoft Entra ID Users	Yes

☐ Restore default mappings

Provisioning Status: On [✓ Off]

The Attribute Mapping panel is displayed.

3. Set **Enabled** ④ to **No**[5] and click **Save**.


Home > LSEG Workspace A | Enterprise applications > Enterprise applications | All applications > heimdall-test-scim | Provisioning >

Attribute Mapping

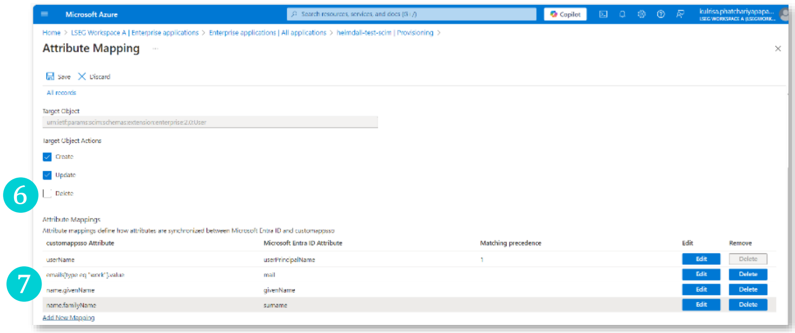
Name: Provision Microsoft Entra ID Groups

Enabled: Yes [✓ No]

Source Object: Group

Source Object Scope

4. Return to the previous page and, from the expanded Mapping section, select **Provision Microsoft Entra ID Users** ⑤.
5. The Attribute Mapping panel is displayed.
6. Set **Enabled** ④ to **Yes**.
7. For **Target Object Actions** ⑥, uncheck **Delete**.
8. Delete unused Attribute Mappings but keep the following ⑦, with the illustrated settings:
   - userName
   - emails[type eq "work"].value
   - name.givenName
   - name.familyName


Home > LSEG Workspace A | Enterprise applications > Enterprise applications | All applications > heimdall-test-scim | Provisioning >

Attribute Mapping

Target Object: urn:ietf:params:scim:schemas:extension:enterprise:2.0:User

Target Object Actions

☑ Create

☑ Update

☐ Delete

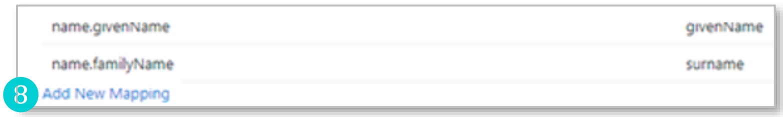
Attribute Mappings

Attribute mappings define how attributes are synchronized between Microsoft Entra ID and customappsso

customappsso Attribute	Microsoft Entra ID Attribute	Matching precedence	Edit	Remove
userName	userPrincipalName	1	Edit	Delete
emails[type eq "work"].value	mail		Edit	Delete
name.givenName	givenName		Edit	Delete
name.familyName	surname		Edit	Delete

Add New Mapping

9. Click **Add New Mapping** ⑧, found at the bottom of the Attribute Mappings section.

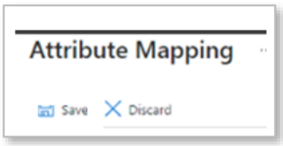

name.givenName	givenName
name.familyName	surname

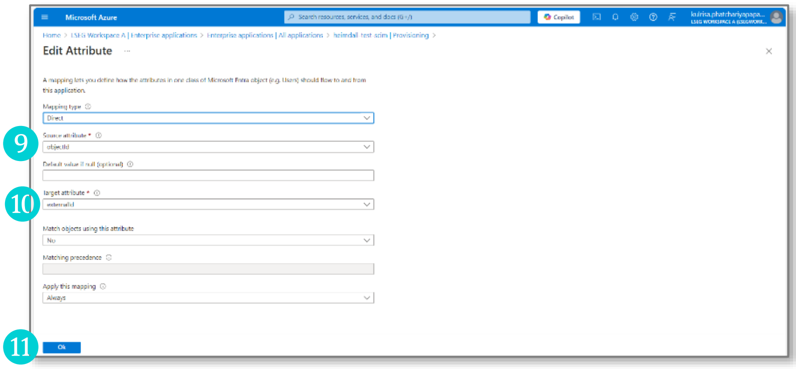
Add New Mapping

[5] Currently, LSEG does not support group provisioning.

The Edit Attribute panel is displayed.

10. From the **Source attribute** dropdown 9, select **objectId**.
11. From the **Target attribute** dropdown 10, select **externalId**
12. To save your settings and return to the Attribute Mapping panel, click **OK** 11.
13. Found immediately below the Attribute Mapping heading, click the **Save** option.


Attribute Mapping


Microsoft Azure

Home > LSEG Workspace A | Enterprise applications > Enterprise applications | All applications > heimdall-test-scim | Provisioning >

Edit Attribute

A mapping lets you define how the attributes in one class of Microsoft Entra object (e.g. Users) should flow to and from this application.

Mapping type: Direct

Source attribute *: objectId

Default value if null (optional):

Target attribute *: externalId

Match objects using this attribute: No

Matching precedence:

Apply this mapping: Always

Mapping user attributes

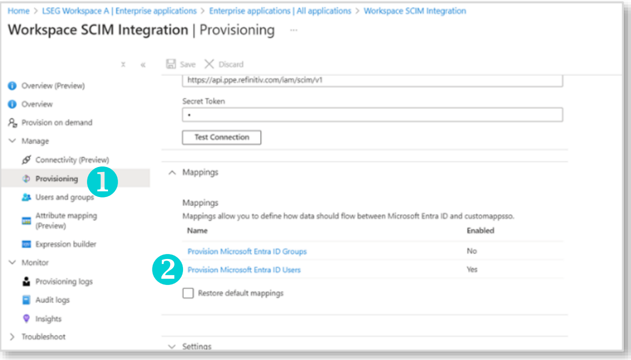
To provision Workspace users with Entra authentication successfully, you need to set Entra attributes that can be mapped to the Workspace User IDs[6].

By default, SCIM attempts to map the Entra `userPrincipalName` to their Workspace User ID. However, in some instances, this mapping will not work, as they will not match. In this circumstance, to customise the user attribute mapping and select an Entra attribute that matches the Workspace User ID, follow the steps below:

1. In your Entra tenant, open the app you created. In this example, it is named Workspace SCIM Integration.
2. From the left side menu, select **Manage > Provisioning** 1.

   The Provisioning panel is displayed.
3. Under the Mappings section, select the **Provision Microsoft Entra ID Users** option 2.

   The Attribute mapping panel is displayed.


Home > LSEG Workspace A | Enterprise applications > Enterprise applications | All applications > Workspace SCIM Integration

Workspace SCIM Integration | Provisioning

https://api.ppe.refinitiv.com/iam/scim/v1

Secret Token: •

Mappings

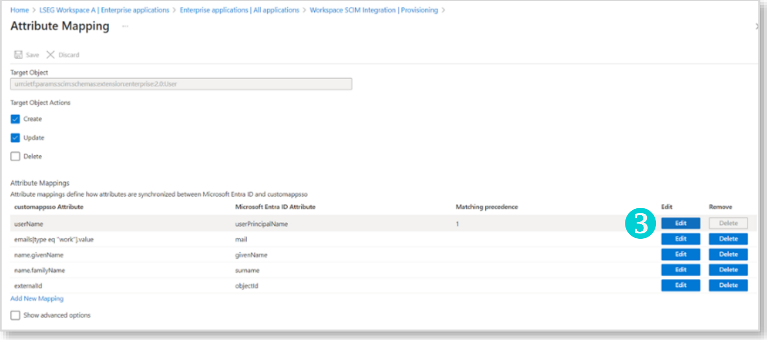
Mappings allow you to define how data should flow between Microsoft Entra ID and customappsso.

Name	Enabled
Provision Microsoft Entra ID Groups	No
Provision Microsoft Entra ID Users	Yes

□ Restore default mappings

4. Configure the mappings[7], as shown in the table below:

This attribute…	Map to…
userName **Matching Precedence** should only be selected for the username attribute and must be set to **1**. No other attribute should have a **Matching Precedence** setting.	userPrincipalName
name.givenName	mail
name.familyName	givenName
emails[type eq "work"].value	surname
externalId	objectId


Home > LSEG Workspace A | Enterprise applications > Enterprise applications | All applications > Workspace SCIM Integration | Provisioning >

Attribute Mapping

Target Object: urn:ietf:params:scim:schemas:extension:enterprise:2.0:User

Target Object Actions

☑ Create

☑ Update

□ Delete

Attribute Mappings

Attribute mappings define how attributes are synchronized between Microsoft Entra ID and customappsso

customappsso Attribute	Microsoft Entra ID Attribute	Matching precedence	Edit	Remove
userName	userPrincipalName	1	Edit	Delete
emails[type eq "work"].value	mail		Edit	Delete
name.givenName	givenName		Edit	Delete
name.familyName	surname		Edit	Delete
externalId	objectId		Edit	Delete

Add New Mapping

□ Show advanced options

[6] The use of Workspace user IDs is specifically for onboarding LSEG Workspace users onto Entra. Other products may use their own user IDs for Entra onboarding.

[7] It is crucial that these mappings are configured as shown in the table, as incorrect mappings will result in provisioning failure.

Changing a non-matching userName

If the `UserPrincipalName` in Entra does not match the `userName` in SCIM, you need to amend the mapping by changing to another Entra attribute that does match with the userName.

To do so:

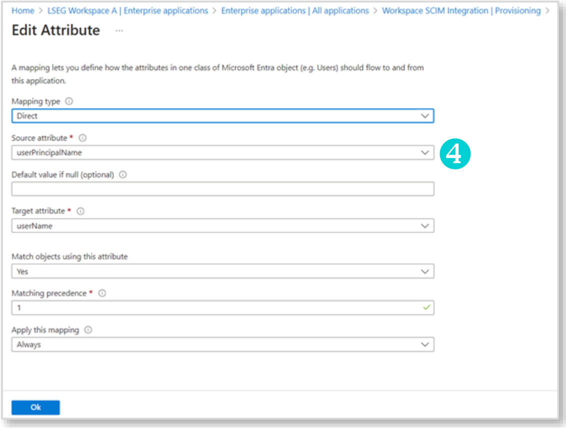
- Click the **Edit** button, next to `userPrincipalName` ❸.

  The Edit Attribute panel is displayed.

Mapping an existing Entra attribute

To map an existing Entra attribute to the SCIM `userName`, do the following:

- In the **Source Attribute** field, click ∨ to open the dropdown menu ❹.


Home > LSEG Workspace A | Enterprise applications > Enterprise applications | All applications > Workspace SCIM Integration | Provisioning >
Edit Attribute
Ok
4

A mapping lets you define how the attributes in one class of Microsoft Entra object (e.g. Users) should flow to and from this application.

Mapping type: Direct

Source attribute *: userPrincipalName

Default value if null (optional):

Target attribute *: userName

Match objects using this attribute: Yes

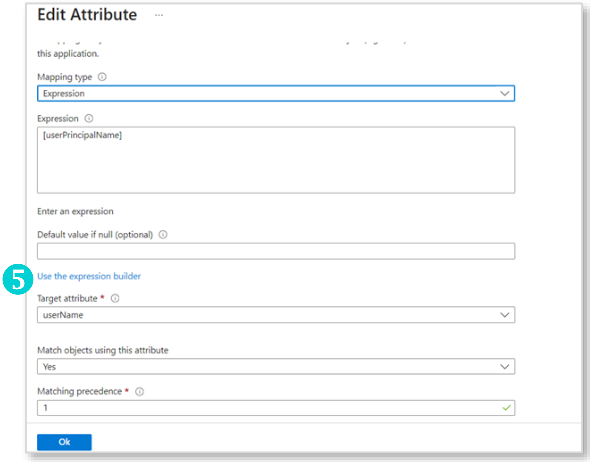
Matching precedence *: 1

Apply this mapping: Always

Customising the attribute mapping

If none of the existing Entra attributes match the SCIM userName, to customise the attribute mapping, do the following:

1. Open the **Mapping type** dropdown menu and select **Expression**.
2. Select **Use the expression builder** ❺.



this application.

Mapping type: Expression

Expression: [userPrincipalName]

Default value if null (optional):

Target attribute *: userName

Match objects using this attribute: Yes

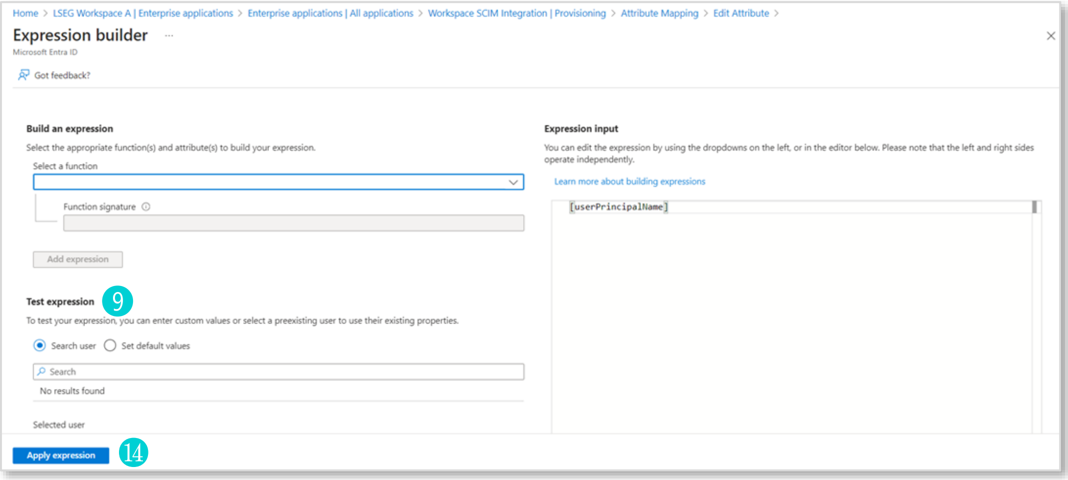
Matching precedence *: 1

The Expression builder panel is displayed.

This panel can be used to write custom expressions that transform or combine attributes, such as:

- Concatenating first and last names
- Formatting email addresses, or
- Applying conditional logic.

The available functions, such as Join(), Append(), and Replace(), and operators can be used to build expressions.


Home > LSEG Workspace A | Enterprise applications > Enterprise applications | All applications > Workspace SCIM Integration | Provisioning > Attribute Mapping > Edit Attribute >
Expression builder
Microsoft Entra ID
Got feedback?
Select a function
Function signature
Add expression
Learn more about building expressions
Search
Selected user
Apply expression
9
14

Build an expression

Select the appropriate function(s) and attribute(s) to build your expression.

Test expression

To test your expression, you can enter custom values or select a preexisting user to use their existing properties.

● Search user ○ Set default values

No results found

Expression input

You can edit the expression by using the dropdowns on the left, or in the editor below. Please note that the left and right sides operate independently.

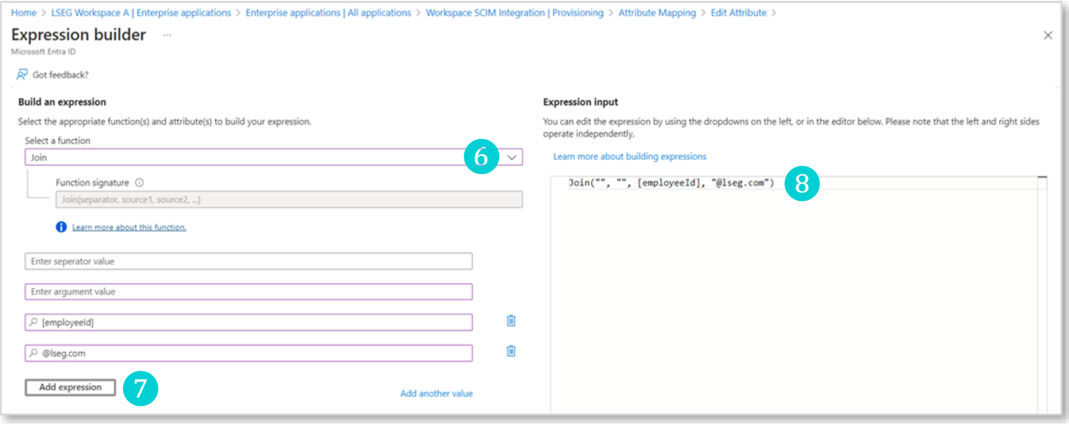
```
[userPrincipalName]
```

For more information regarding writing custom expressions, refer to Reference for writing expressions for attribute mappings in Microsoft Entra Application Provisioning.

Using Expression builder

This section provides an example showing how Expression builder can be used to customise the `userName` attribute, by joining the `employeeId` attribute to the @lseg.com domain.

To do this:



Home > LSEG Workspace A | Enterprise applications > Enterprise applications | All applications > Workspace SCIM Integration | Provisioning > Attribute Mapping > Edit Attribute >

Expression builder

Microsoft Entra ID

Build an expression

Select the appropriate function(s) and attribute(s) to build your expression.

Select a function: Join

Function signature: Join(separator, source1, source2, ...)

Enter seperator value

Enter argument value

[employeeId]

@lseg.com

Expression input

You can edit the expression by using the dropdowns on the left, or in the editor below. Please note that the left and right sides operate independently.

```
Join("", "", [employeeId], "@lseg.com")
```

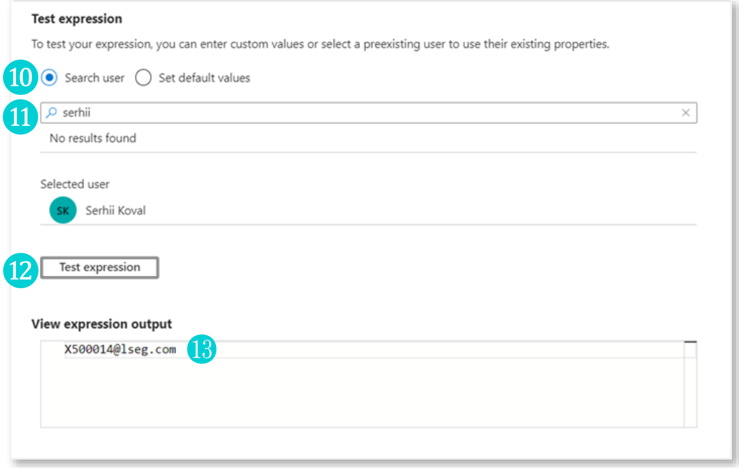
Got feedback?
Learn more about this function.
Add expression
Add another value
Learn more about building expressions
6
7
8

1. From the **Select a function** dropdown menu, choose the **Join** function ⑥.

   This is used to join the `employeeId` attribute with the `@lseg.com` domain and must be defined using the structure[8] shown in the Expression input panel ⑧.

2. Click the **Add expression** button ⑦.

   The expression syntax is generated in the Expression input panel, on the right-hand side ⑧.



Test expression

To test your expression, you can enter custom values or select a preexisting user to use their existing properties.

● Search user ○ Set default values

serhii

No results found

Selected user: SK Serhii Koval

View expression output

```
X500014@lseg.com
```

3. To choose a user on whom to test the expression, in the Test connection section ⑨ of the Expression builder panel (see the previous page):

   i. Select the **Search user** radio button ⑩.

   ii. In the field below ⑪, start typing the name of the user. Matching names appear in a dropdown list.

   iii. Select the user[9] you want to test from the list.

   iv. Click the **Test expression** button ⑫.

   The resulting output from the expression is shown in the View expression output field ⑬.
   The output – in this example, `x500014@lseg.com` – is the final custom attribute that SCIM receives from Entra. This attribute is crucial, as it is used to search against the Workspace User ID in LSEG.

4. Once you have successfully tested the expression, click the **Apply expression** button ⑭ (see previous page) at the bottom of the Expression builder panel.

[8] When you start typing an attribute name, a list of matching attributes is shown, from which you can select the attribute you want. Static values, such as @lseg.com, are entered enclosed in quotation marks (for example, “`@lseg.com`”).

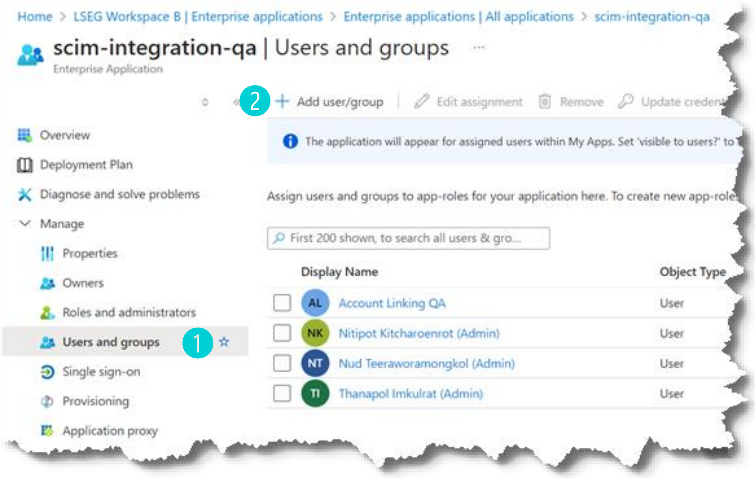
[9] The selected user must contain the required attribute(s) used in the expression.

Provisioning users in the Entra admin portal

To provision users in the Entra admin portal:

1. Navigate to **Enterprise applications > All applications**, then search for and select your application.
2. Select **Manage > Users and groups** 1.
3. The Users and groups panel is displayed (see the example, opposite).
4. Click **Add user/group** 2.

   The Add Assignment panel is displayed.
5. Click **None Selected.**



The application will appear for assigned users within My Apps. Set 'visible to users?' to

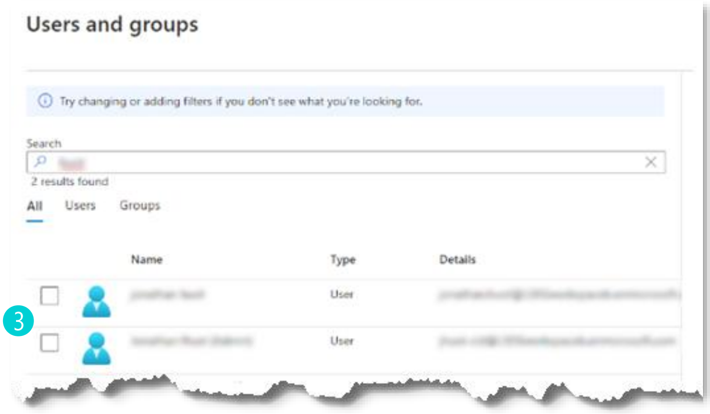
Assign users and groups to app-roles for your application here. To create new app-role

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

	Display Name	Object Type
□	AL Account Linking QA	User
□	NK Nitipot Kitcharoenrot (Admin)	User
□	NT Nud Teeraworamongkol (Admin)	User
□	TI Thanapol Imkulrat (Admin)	User

The Users and groups panel is displayed on the right side of the screen.

6. Choose the users you want to enable 3.
7. Once you have selected all applicable users, click the **Select** button, found at the bottom of the right hand panel.



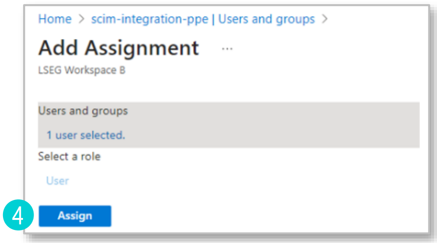
Try changing or adding filters if you don't see what you're looking for.

2 results found

		Name	Type	Details
□			User	
□			User	

8. Click the **Assign** 4 button at the bottom of the left side panel.

   A green tick will appear on screen, indicating successful assignment.



Users and groups

1 user selected.

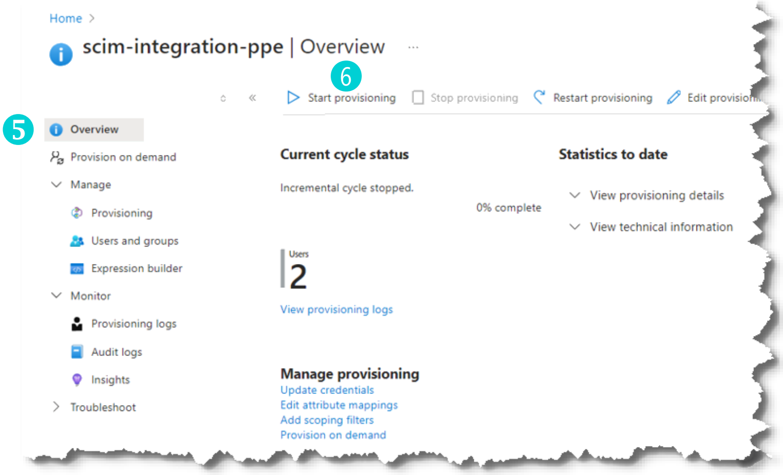
Select a role

User

9. Return to the **Overview** panel 5.
10. To provision all the users that were selected in step 6, select **Start Provisioning** 6.

    Once complete:

    - **Current cycle status** displays **100 % complete**.
    - Provisioned users now have their Microsoft and LSEG accounts linked and can authenticate into Workspace using Entra.
11. (Optional) To add more users, follow steps 1-7 in this section.



Current cycle status

Incremental cycle stopped.

0% complete

Users

2

Statistics to date

Manage provisioning

Accessing Workspace variants with LSEG credentials

Enabling Entra authentication for Web and OpenFin users does not affect their access to the desktop variant of Workspace. Versions 1.23-1.25 are still accessible using their dedicated authentication.

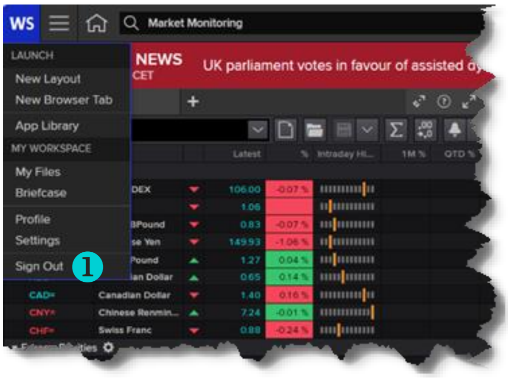
Whilst being enabled for Entra access, users can also access Workspace | Web using their LSEG issued credentials using the following URLs:

- https://workspace.refinitiv.com/web
- https://workspace.extranet.refinitiv.biz/web

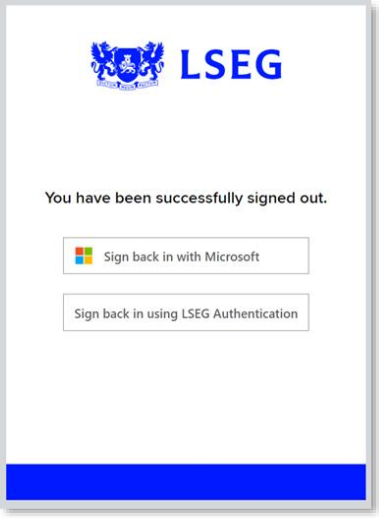
However, once users have logged in through Entra, they will continue to be automatically authenticated into Workspace through their Windows single sign on.

To revert to logging into Workspace using LSEG credentials, do the following:

1. Select WS > **Sign Out** 1.



2. In the resulting panel, select the **Sign back in using LSEG Authentication** button.



You have been successfully signed out.

Sign back in with Microsoft
Sign back in using LSEG Authentication

Useful links

For more information, click the below links.

- Quickstart: Add an enterprise application
- Microsoft Entra on-premises application provisioning to SCIM-enabled apps
- What is automated app user provisioning in Microsoft Entra ID - Microsoft Entra ID | Microsoft Learn
- Plan a Microsoft Entra Conditional Access deployment - Microsoft Entra ID | Microsoft Learn

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