LSEG Workspace | Teams with Automated Domain Management (ADM)

Administrators installation and configuration guide (Pilot)

LSEG DATA & ANALYTICS

Contents

Introduction

This document outlines how customer administrators enable users in their organization to access LSEG Workspace in Microsoft Teams. It includes actions undertaken in both the Teams Admin Center and in Automated Domain Management (ADM).

To use LSEG Workspace in Microsoft Teams, users must have a valid LSEG Workspace license. For more information about Workspace licenses, see the LSEG Workspace Service Description.

Other information sources

To:

- Access other LSEG Workspace technical content, see the Workspace technical documentation site.
- Request product assistance or help regarding Workspace licenses, contact Support.
- Provide feedback on Workspace technical content, contact DocFeedback@lseg.com.

Pre-requisites

The following prerequisites apply for organizations who want to run the LSEG Workspace in Microsoft Teams app:

- Users must have:
  - An LSEG Workspace account mapped to the user's Microsoft Entra account. Mapping can be performed by the administrator (using SCIM) or by users through the app
  - An LSEG Messenger license
  - MSFT 365 licences
- The customer's administrator requires:
  - Access to the Teams Admin Center
  - Access to Automated Domain Management (ADM), if you are intending to use Teams with Open Directory
  - Workspace access and an administrator role to access Workspace admin tools (if the customer administrator establishes SCIM connectivity in the Teams administrator role)

Tenant-level configuration pre-requisites

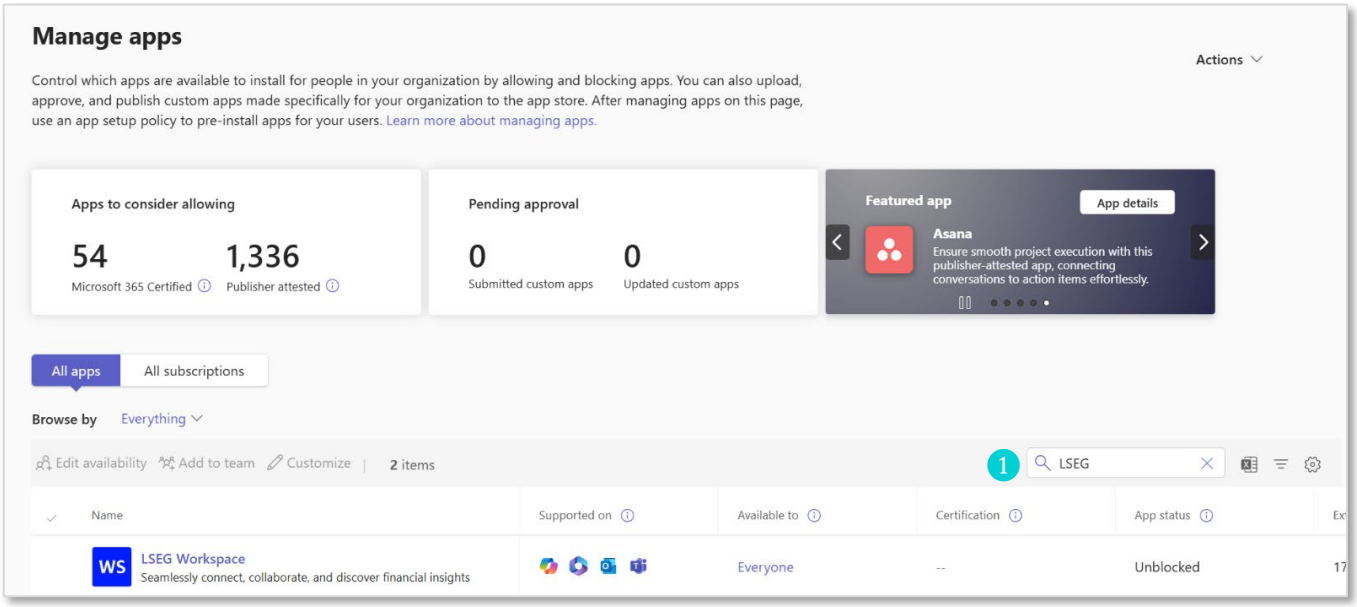
For instructions about how to register the Data Provider Entra app in the tenant and establish SCIM connectivity, click here.

Deploying LSEG Workspace in Teams

This section provides information about the application, as well as instructions on how to deploy, and how to enable or restrict the app to individual users.

To discover and download the application from the Microsoft Teams App Store:

1. Sign into the Microsoft Teams admin center with your administrator credentials.
2. Go to **Teams apps** > **Manage apps**.
3. Using the search facility 1, search for LSEG.

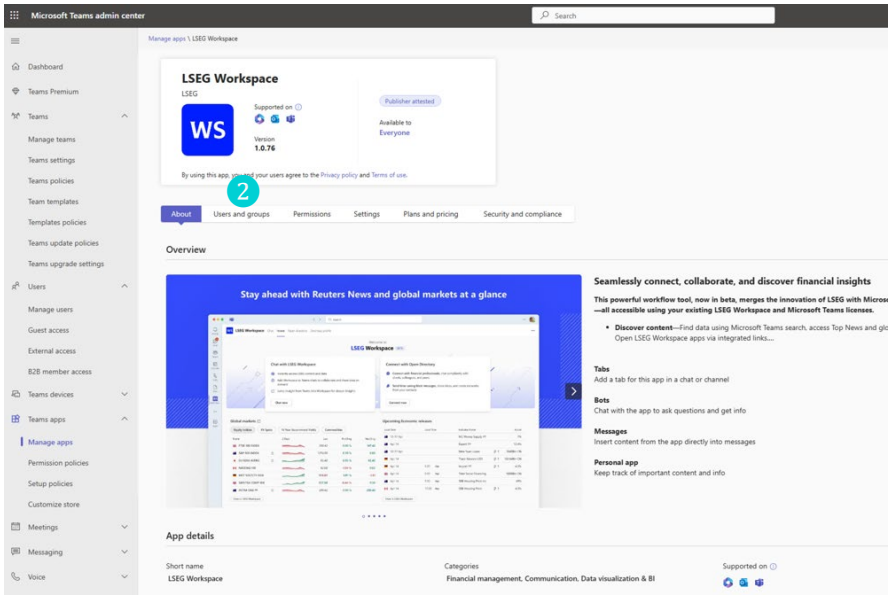


By default, applications are available to everyone in your organization. To restrict access, follow the steps below.

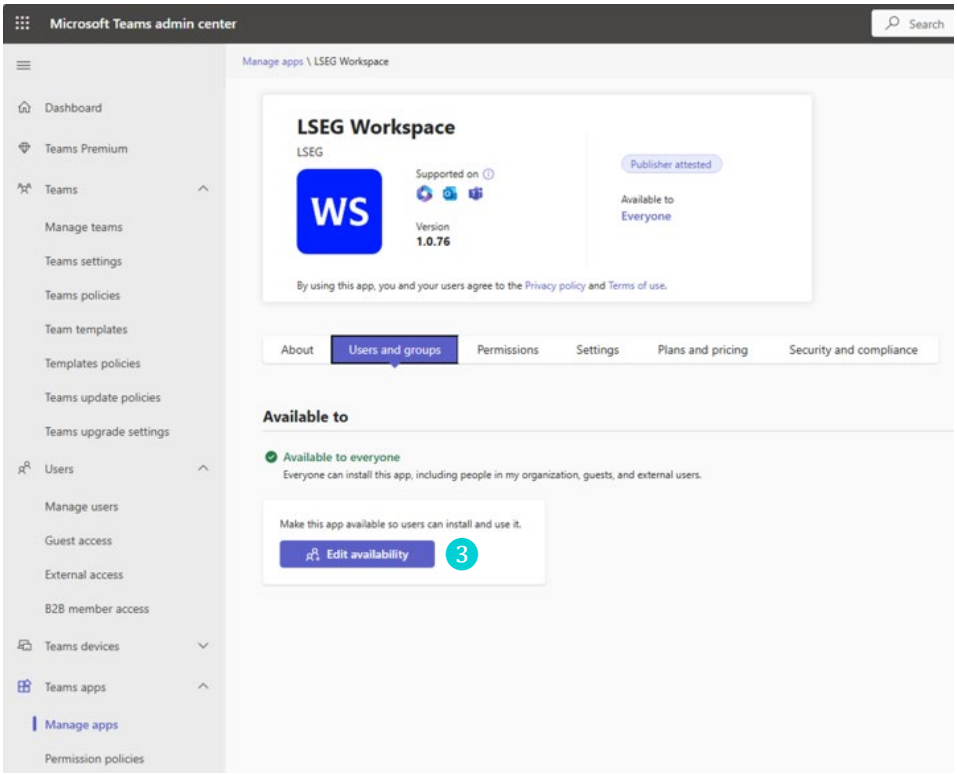
Restricting / enabling the app to individual users

If the LSEG Workspace in Microsoft Teams app is not available to everyone, it can be made available to selected users within your organization by performing the following steps:

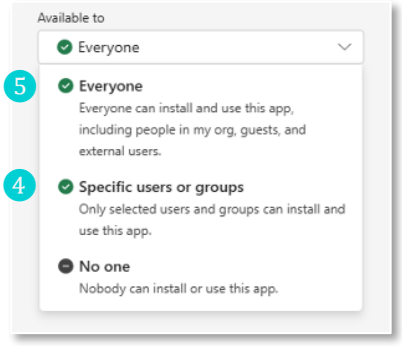
1. Go to **Teams apps** > **Manage apps**.
2. Select the **Users and Groups** tab 2**.**



3. Select **Edit availability** 3.



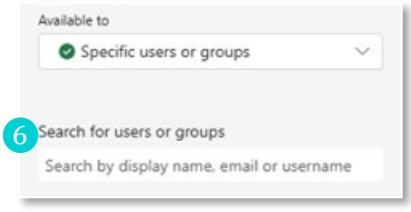
4. If access needs to be limited, click **Specific users or groups** 4. Otherwise, select **Everyone** 5.



5. If you have selected **Specific users or groups**, in the **Search for users or groups** 6 field, type the names of the users for whom you want to make the app available.

   These may be entered as:

   - Display names
   - Usernames
   - Email addresses



6. Click **Apply**.

If you want your users to see the application by default in Teams, you can pre-install the application for end users by using an app setup policy. For more information, refer to https://learn.microsoft.com/en-us/microsoftteams/teams-app-setup-policies.

Granting permissions

For the LSEG Workspace in Teams app to function correctly, the appropriate permissions must be granted.

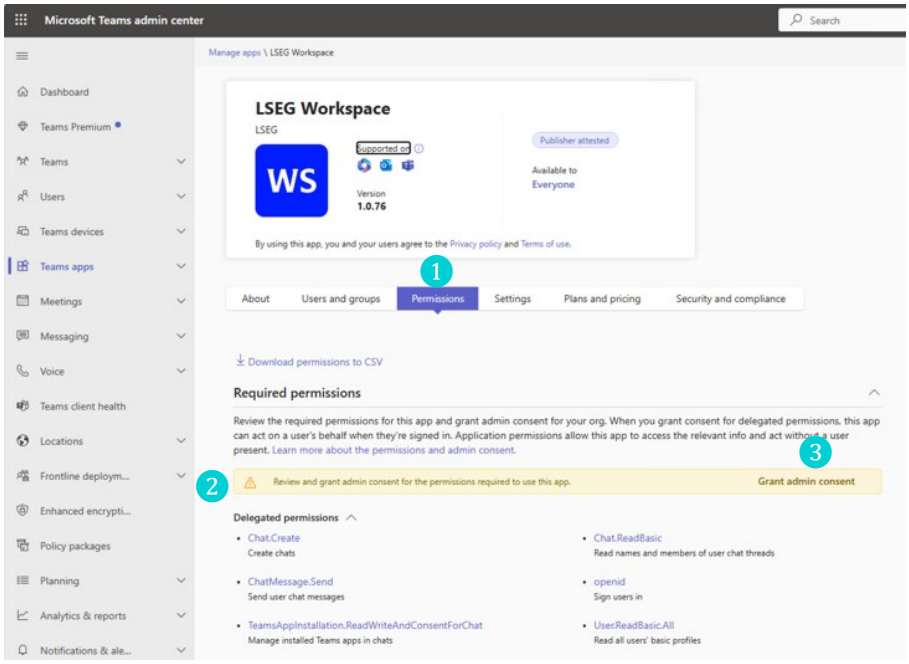
For a list of these permissions, see Appendix A: Required permissions.

Providing Teams admin consent for all users

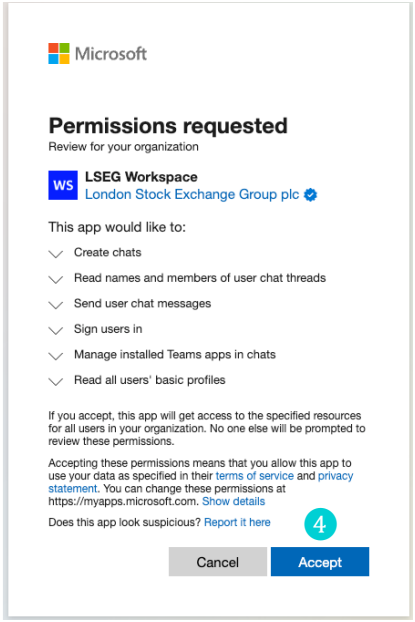
To provide Teams admin consent:

1. Go to **Teams apps** > **Manage apps**.
2. In the search facility, search for LSEG.
3. Select the **LSEG Workspace** application.
4. Click the **Permissions** tab 1.

   A yellow banner 2 is displayed, stating **Review and grant admin consent for the permissions required to use this app**.
5. Select **Grant admin consent** 3, shown at the end of the yellow banner.



A dialog box appears requesting permissions to be accepted.



6. Click **Accept** 4.

About Automated Domain Management (ADM)

This section describes the different roles and relationships that are involved in the ADM deployment process.

Roles and relationships

To ensure clarity for all stakeholders, the following roles and relationships should be explicitly defined:

Customer organisation

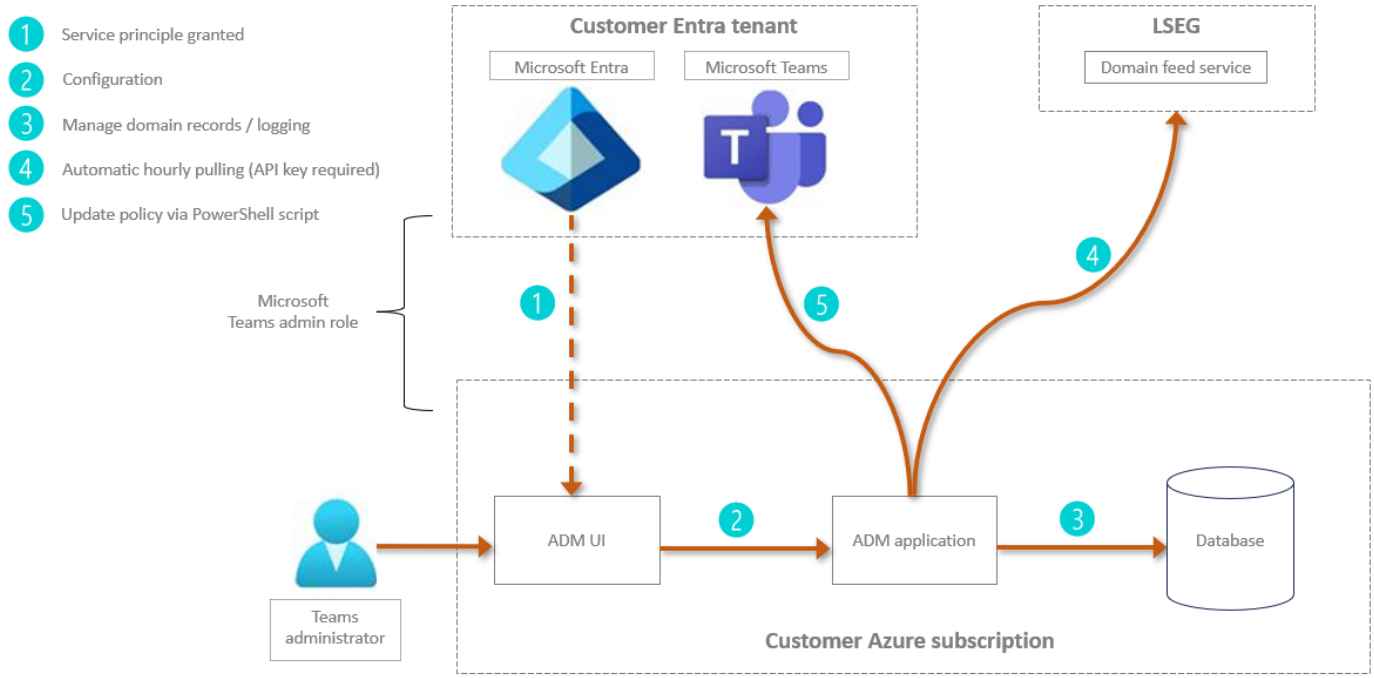
Role	Relationship with LSEG	Relationship with Microsoft
Consumes the Automated Domain Management (ADM) app to manage external access policies for Microsoft Teams in connection with use of Open Directory (OD).	Acts as a participant in LSEG's Open Directory (OD) network, leveraging OD for federation across member organisations.	Uses Microsoft Teams as the collaboration platform.

LSEG (London Stock Exchange Group)

Role	Relationship with customer organisation	Relationship with Microsoft
Provides and maintains the Open Directory (OD) network. Develops and supports the ADM app which supports federation. .	Serves as the directory authority, ensuring OD membership integrity and policy enforcement. Provides technical support, documentation, and compliance guidance for ADM deployment.	Collaborates on integration standards to ensure OD and ADM works seamlessly with Microsoft Teams.

ADM workflow

The following diagram presents an architectural overview of ADM.



Deploying the ADM application

The ADM app is a client-side application that must be deployed onto a tenant's Azure cloud environment:

- By an administrator with the appropriate permissions to deploy Azure services onto an Azure cloud environment, and
- Via an Azure Resource Management (ARM) template

📌 More information about the minimum required roles for ADM deployment is described in the Azure resources section.

Pre-requisites for deployment

Customers must have the following in place before deploying ADM:

Pre-requisite	Role / permission required	Reason
Azure subscription	For details on the required role / permissions, see Appendix B: Azure resources. Note that a customer's Azure policy must enable public network access for applications.	Required for creating Azure resources.
Entra ID	Entra application administrator	Required for creating App Registrations, consent to Graph API permissions and assign Directory roles.
Teams environment	Teams administrator	Required for the admin to be able to perform update the Teams policy and domains via ADM app.

📌 Ideally, all the pre-requisites would be part of the same subscription; however, deployment is still possible if this is not the case.

Deploying ADM using a custom template

Creating an app registration

This is a required step so ADM can manage domains and policies on the client tenant, including allowing specific domains.

📌 Note that this step is currently manual, but will be automated later.

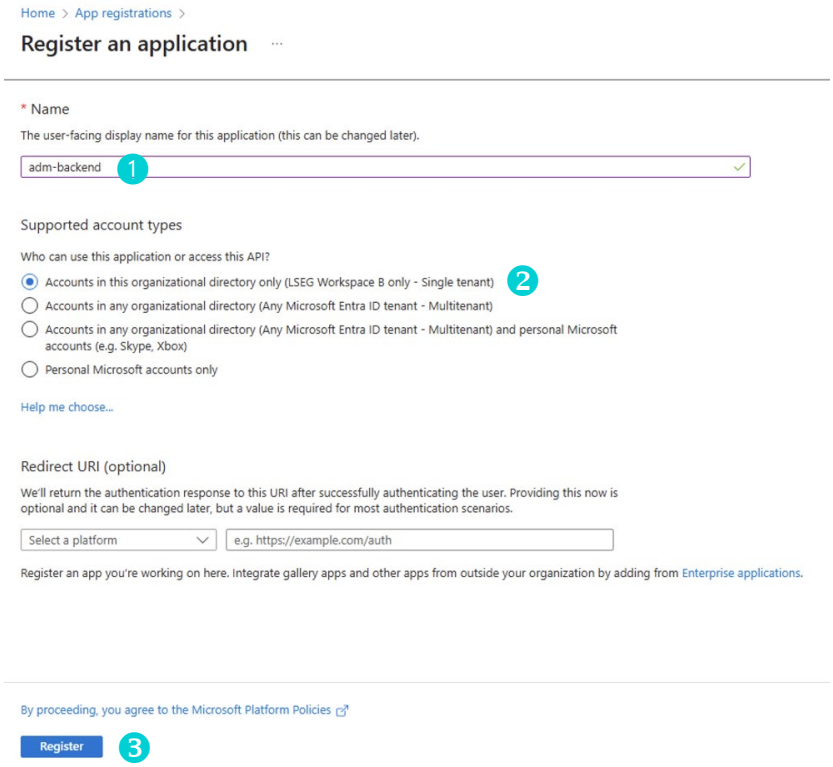
To create an app registration, you must:

- Register the backend
- Register the frontend, and
- Add the Teams administrator role

Registering the backend

To register the backend:

1. Go to the Azure Portal and login with your account.
2. Go to App Registrations.
3. Click **New registration**.
4. In the **Name** field, type **adm-backend** ❶.
5. Select the **Accounts in this organisational directory only (<tenant name> only - Single tenant)** radio button ❷.
6. Click the **Register** button ❸.



Configuring the backend

📌 IMPORTANT: If you do not make a note of the values which are required in this step, you will not be able to deploy an ARM template.

To configure adm-backend:

1. Select App Registration > adm-backend.
2. In the **Certificates & secrets** tab, click **New client secret**.
   i. Enter the **Description**: adm-backend-secret
   ii. In the **Expires** dropdown, select 730 days (24 months)
   iii. Click the **Add** button
3. Copy the **Value** and **Secret ID** generated. This is an important step, as you cannot go back to view these values.

Adding API permissions

To add an API permission:

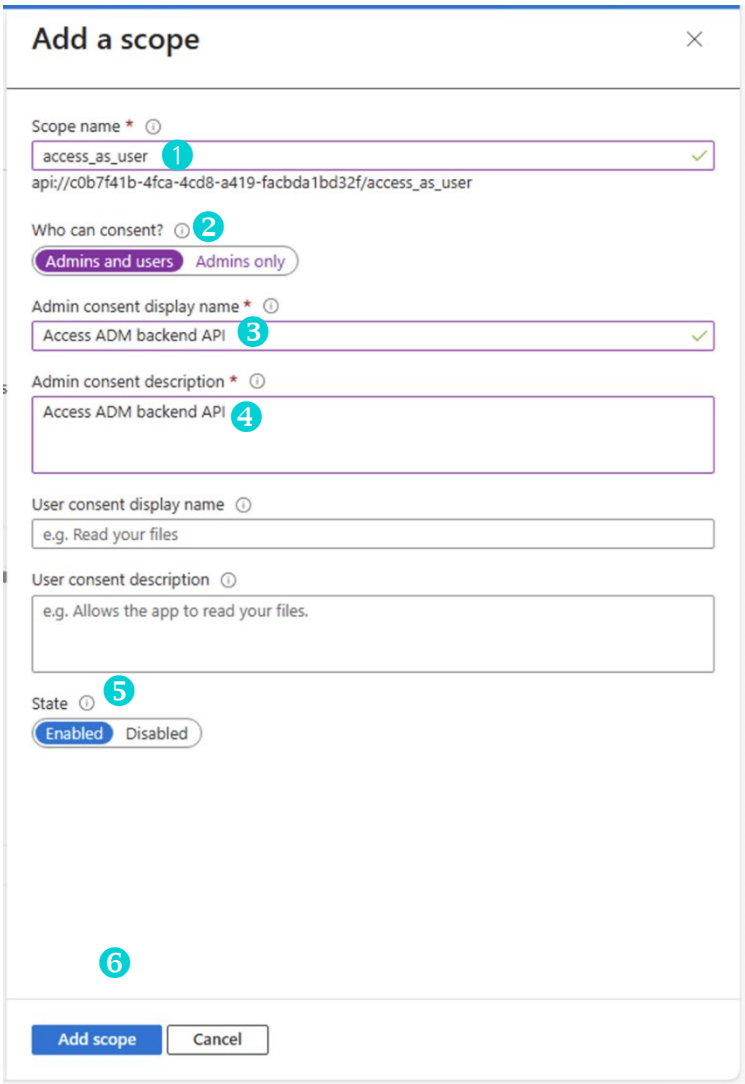
1. Click **Add a permission**.
2. Select **Microsoft Graph** and then choose **Application Permissions**.
3. The permissions are as follows:
   - Application.Read.All – read all applications
   - Group.ReadWrite.All – read and write all groups
   - GroupMember.Read.All – read all group memberships
   - Mail.Send – send mail as any user
   - Organization.Read.All – read organisation information
   - User.ReadBasic.All – read all users' basic profiles
4. If it was created automatically, you should remove the User.Read permission. This permission is not required for the adm-backend.
5. Click **Grant admin consent** for all permissions.

📌 This is a required step for the app to work.

Exposing an API

To expose an API, you need to:

1. Create an application ID URI and click on it.
2. Add a scope as follows:
   i. In the **Scope name** field, type 'access_as_user' ❶.
   ii. Select 'Admins and users' in the **Who can consent?** field ❷.
   iii. In the **Admin consent display name** field, type 'Access ADM backend API' ❸.
   iv. In the **Admin consent description**, type 'Access ADM backend API' ❹.
   v. Ensure the **State** is 'Enabled' ❺.
   vi. Click the **Add scope** button ❻.



Obtaining the adm-backend client ID

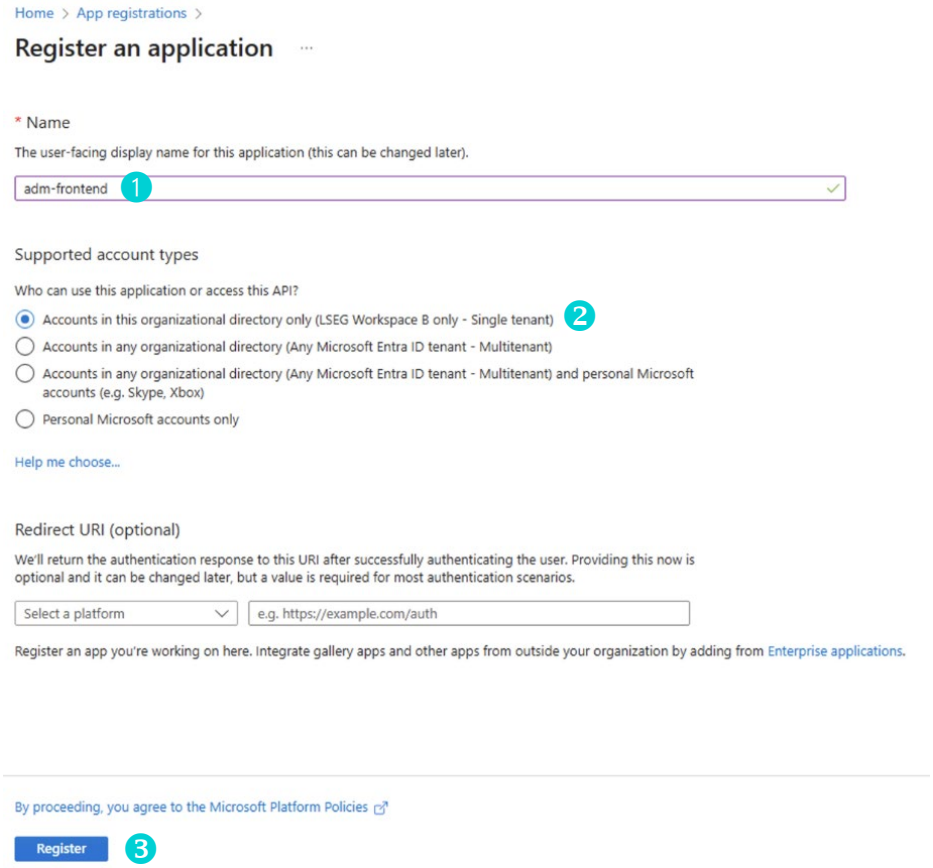
To obtain the adm-backend client ID:

1. Return to **Overview** menu in App Registration > adm-backend
2. Copy the Application (client) ID. This will be used for the 'Backend Azure Client ID' in the ARM Template.

Registering the frontend

To register the frontend:

1. Click **New registration** to create a new App Registration for the frontend app.
2. In the **Name** field, type **adm-frontend** 1.
3. Select the **Accounts in this organisational directory only (<tenant name> only - Single tenant)** radio button 2.
4. Click the **Register** button 3.



Configuring the frontend

To configure adm-frontend:

1. Select **App Registration** > adm-frontend.
2. Select **API permission** and click **Add a permission**.
3. If 'User.Read' was not automatically created, select **Microsoft Graph** and add it as a permission, ensuring the type of permission is 'Delegated'.

4. Click **Add a permission** > select **APIs my organization uses** > adm-backend.
5. Select **Delegated permissions**. The resulting screen displays as follows:

6. Select the permission **access_as_user** and click the **Add permissions** button.
7. Grant admin consent to all permissions. This is a required step for the app to work.

Adding the Teams administrator role to ADM

To add the Teams administrator role to ADM:

1. Go to **Microsoft Entra roles and administrators** in Azure.
2. Search for '**Teams Administrator**' and click on it.
3. To add the required assignments to the Teams administrator role:
   i. Click on **Add assignments**.
   ii. Select the member(s) for whom you want to add assignments.
4. Search for **adm-backend** and select it.
5. Click the **Next** button.
6. Select **Active**.
7. Select **Permanently assigned**.
8. Click the **Assign** button.

Name	Principal name	Type	Scope	Membership	State
Teams Administrator					
adm-backend	e4cd6ce0-2a55-4883-93a	Service principal	Directory	Direct	Assigned

Obtaining the adm-frontend client ID

1. Return to the **Overview** menu in App Registration > adm-frontend
2. Copy the **Application (client) ID**. This will be used as the 'Frontend Client ID' in the ARM template.
3. Ensure the following are all saved for use in ADM template deployment:
   - Backend Azure Client Id
   - Backend Azure Client Secret
   - Frontend Client Id

Obtaining an API key and a Container Registry password

The LSEG API Key and LSEG Container Registry Password will be provided to customers by LSEG as part of the onboarding process.

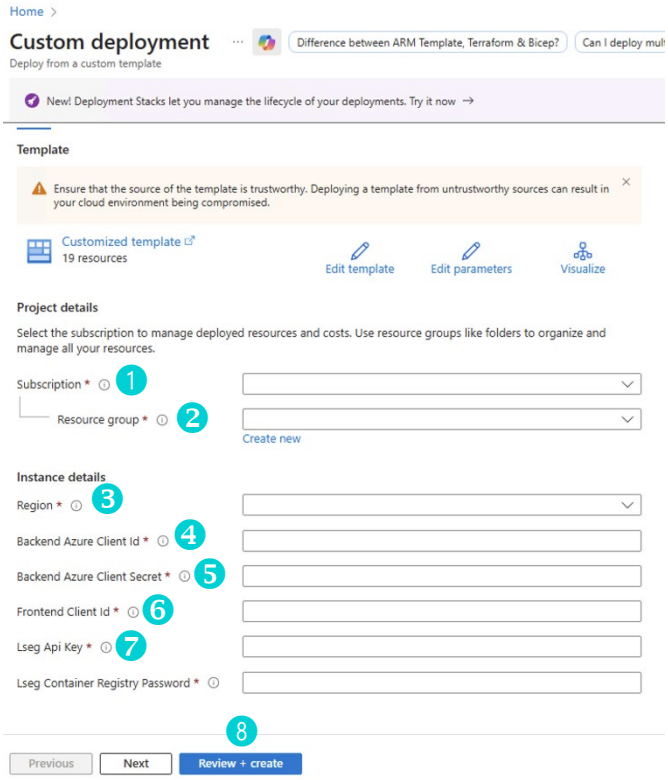
- The API Key is unique for each client.
- The LSEG Container Registry Password is required for accessing container resources needed for ADM backend deployment.

📌 Contact WSTEAMSonboarding@lseg.com if you experience any issues with your API key or password.

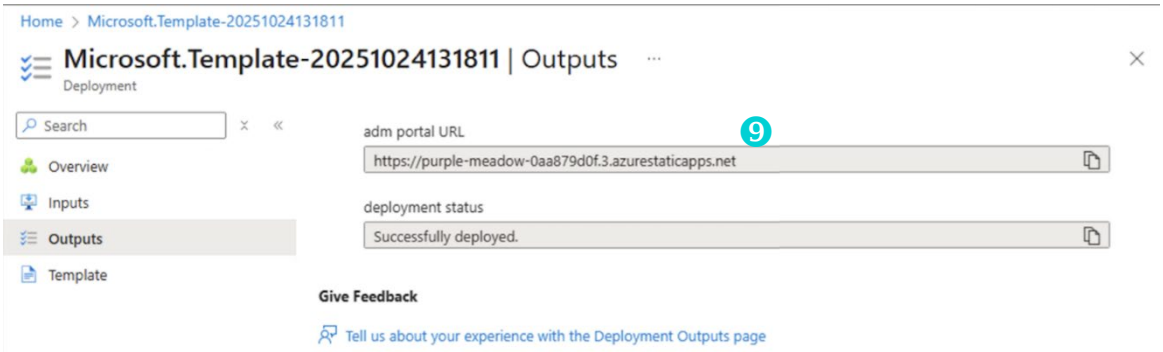
Deploying the ARM template

To deploy the ARM template:

1. Ensure you have the following required information:
   - Backend Azure Client Id
   - Backend Azure Client Secret
   - Frontend Client Id
   - LSEG API Key
   - LSEG Container Registry Password
2. Open the Azure Portal and load the LSEG ARM template for ADM deployment.
3. In the **Project details** section of the screen:
   i. Select your **Subscription** 1.
   ii. Select existing **Resource group** 2 or create a new one (recommended).
4. In the **Instance details** section of the screen:
   i. Select the **Region** 3 where the ADM should be deployed.
5. Enter the **Backend Azure Client Id** 4 (Application Client ID).
6. Enter **Backend Azure Client Secret** 5.
7. Enter **Frontend Client Id** 6 (Application Client ID).
8. Enter the **LSEG API Key** 7.
9. Enter the LSEG Container Registry Password, and then click **Review + create** 8.
10. Review the terms and click **Create** to start the deployment.



After the deployment has been completed, the ADM application URL will be displayed in **Outputs** 9.



Setting up a redirect URI for authentication

This step is required to bind the Entra login and make it redirect to the ADM app after a successful login.

1. Copy the URL created when Deploying the ARM template (see previous page). This is required for adding the URI in the adm-frontend.
2. Go to **App Registration**.
3. Search for, and select, **adm-frontend**.
4. Go to Manage > Authentication > Platform configuration.
5. Click **Add a platform**.
6. In the displayed panel, select **Single-page application**.
7. Enter **Redirect URIs** using the adm-frontend URL you have copied (see Step 1).
8. Click **Configure**.
9. Select the **Accounts in this organizational directory only (<tenant name> only - Single tenant)** radio button.
10. Click the **Save** button.

The redirect URI has now been set up for authentication.

Post-deployment administration

After ADM has been installed / deployed, customers can manage a range of administrative tasks, including:

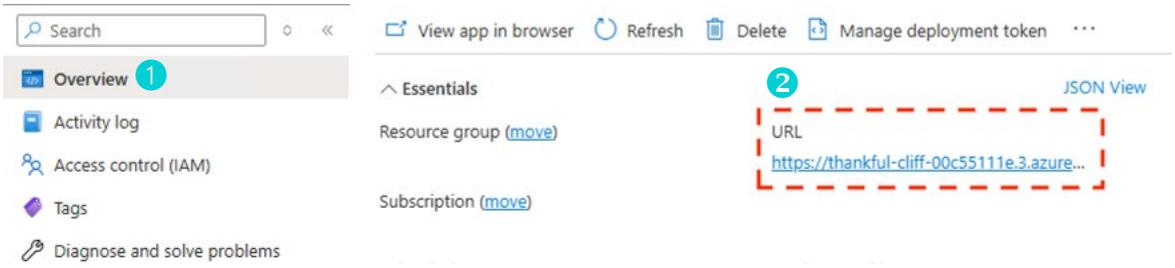
- Managing configuration
- Creating a base policy
- Managing domains
- Managing policies

Managing configuration

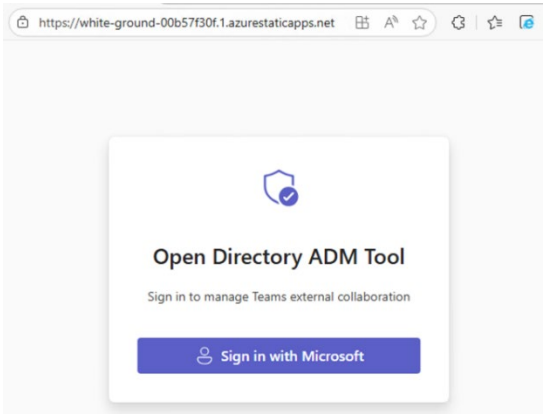
Customers are required to configure ADM before using the unique API Key provided to them by LSEG.

To configure ADM:

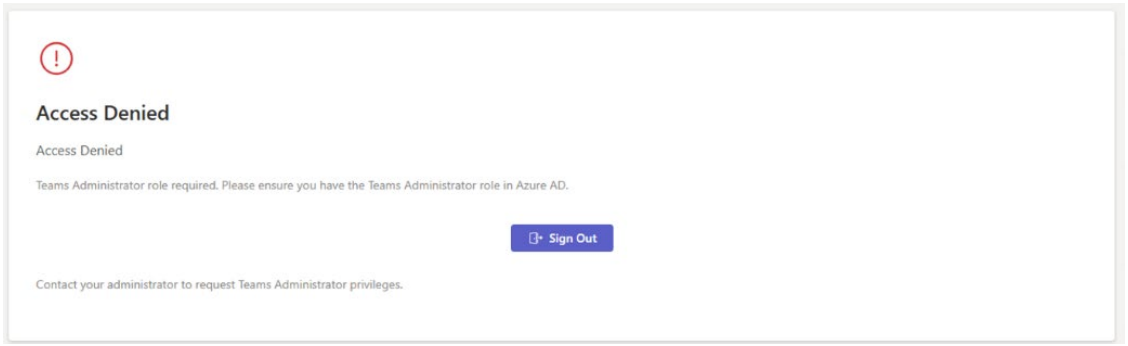
1. Open the ADM tool by using adm-frontend URL from Deploying the ARM template or by finding it in Static Web Apps > adm-frontend > Overview 1 > URL 2.



2. In the resulting popup window, click **Sign in with Microsoft**.



If you have not been assigned the Microsoft Teams Administration role, you will be blocked from accessing the app and the following window will be displayed.



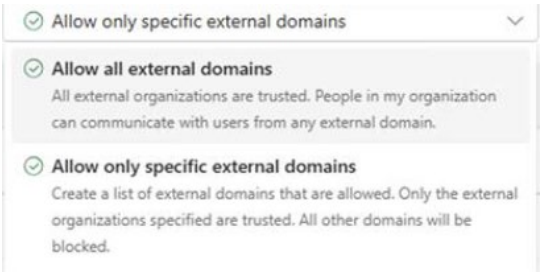
Creating a base policy

The base policy is managed in the Teams Admin Center, outside the ADM app. ADM will not interfere with the existing policy because it will create an inherited version of the base policy instead.

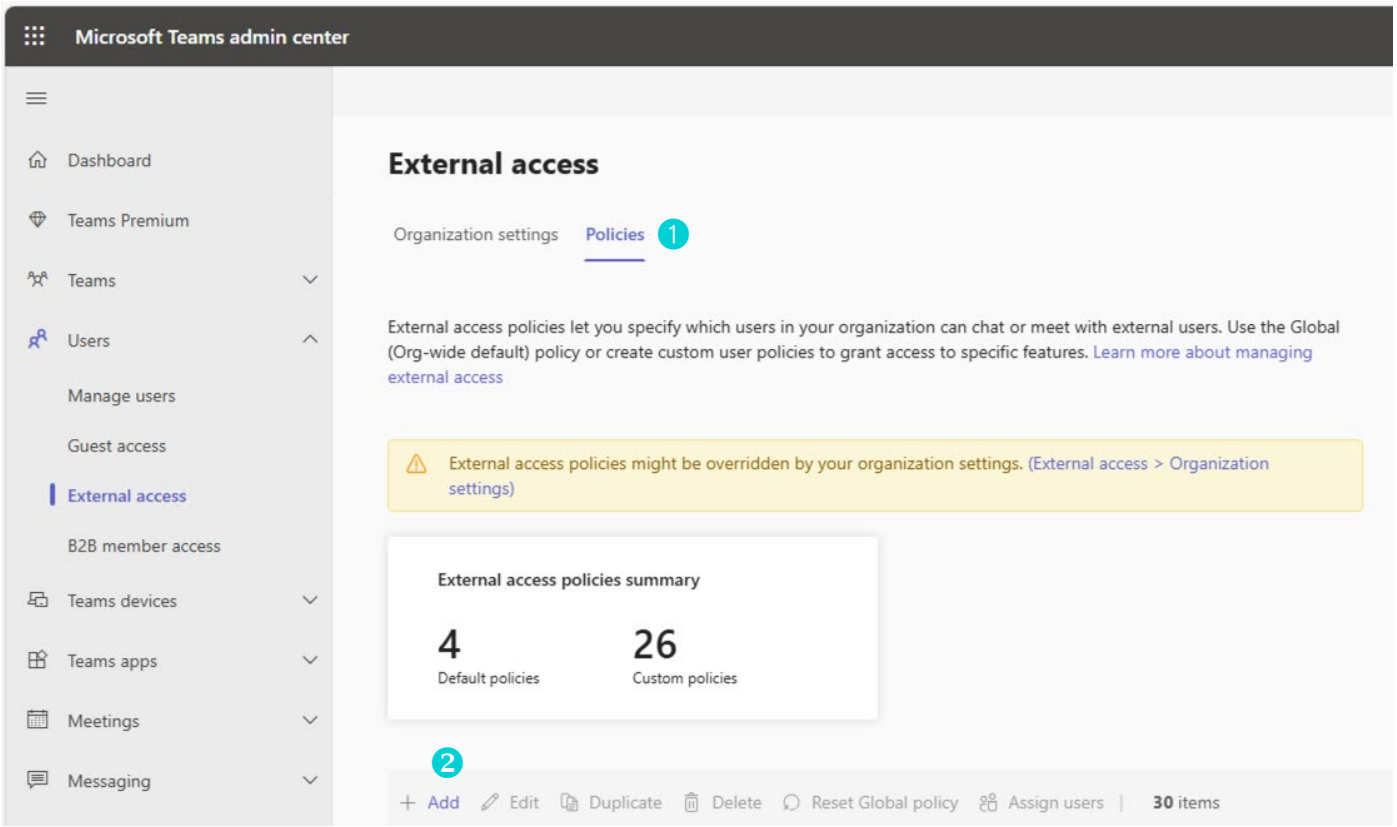
Creating a policy in the Teams Admin Center

To create a base policy in the Teams Admin Center:

1. In the **Organization Settings** tab, select either **Allow all external domains** or **Allow only specific external domains** from the dropdown list.

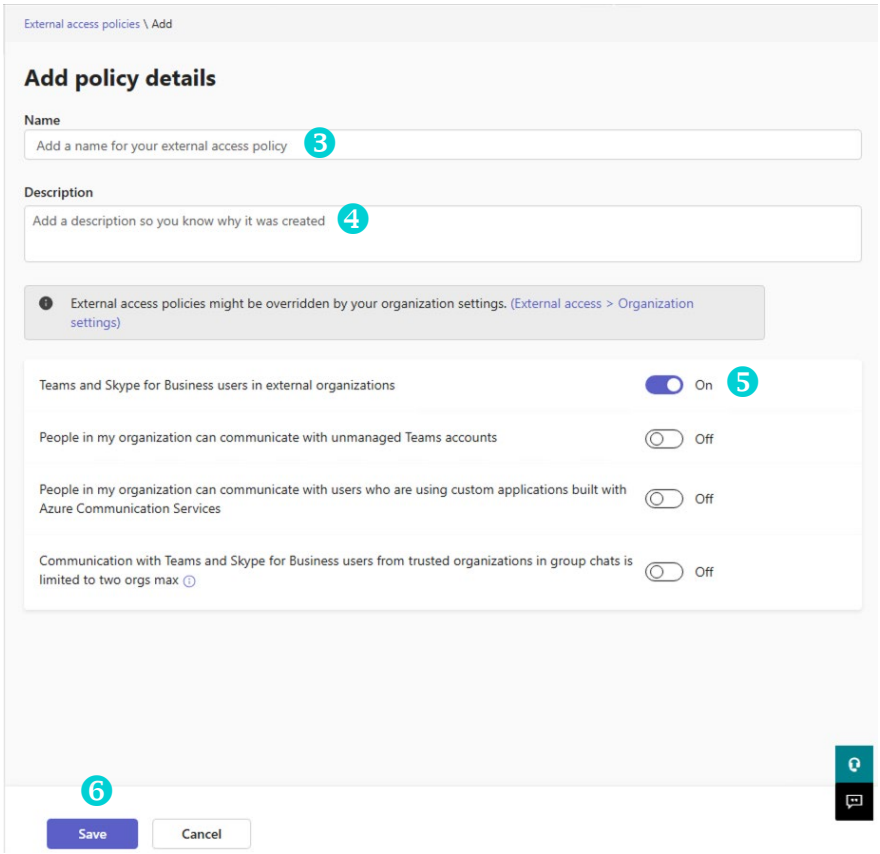


2. Go to the **Policies** tab ❶.



3. Click **Add** ❷.

4. Enter the **Name** of the new policy ❸.
5. Enter a **Description** of the policy (Optional) ❹.
6. Turn the **Teams and Skype for Business users in external organizations** switch to **On.** ❺ This option is a minimum requirement for chat with external organizations.



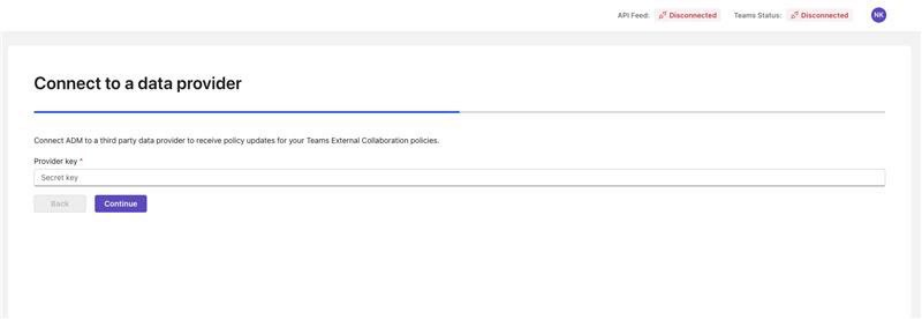
7. Click the **Save** ❻ button.

Configuring domain feeds

The first time you connect to a domain feed, you will use an API key provided to you by LSEG.

To do this:

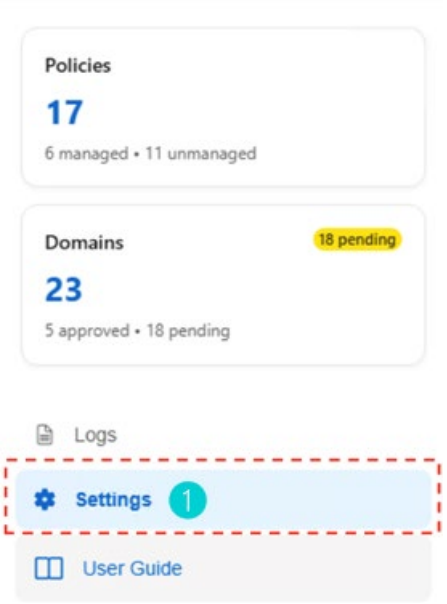
1. In the **Provider key** field, enter the API key.
2. Click the **Continue** button.



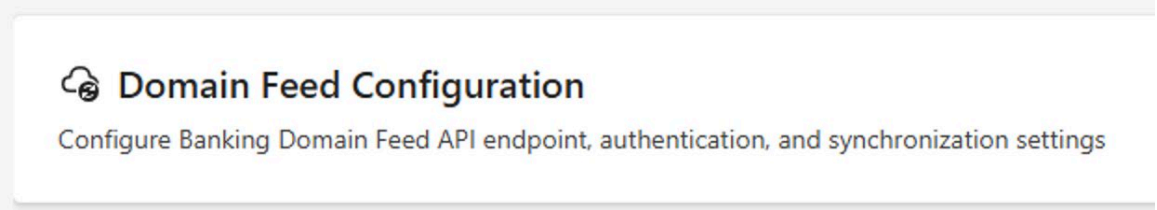
3. Click **Go to Policies** to be directed to the Policies screen.

Thereafter, you may need to configure these domain feeds:

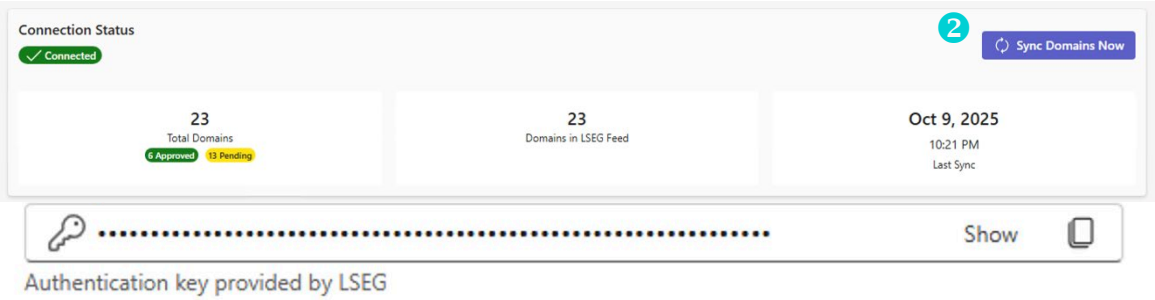
4. In ADM, select **Settings** 1.



5. In the resulting window, select **Domain Feed Configuration**.



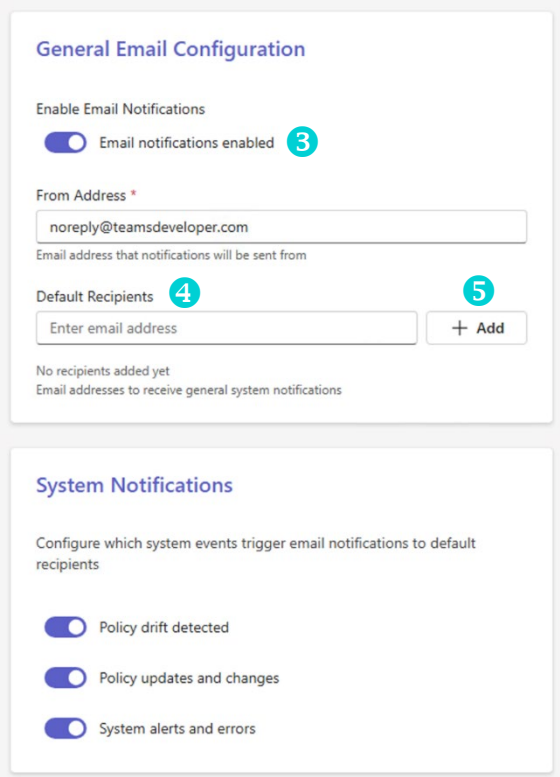
6. In the **API Configuration** section, add the API key provided by LSEG. If you have any issues, contact LSEG Support.
7. Click **Save Configuration**.
8. Validate connectivity by clicking the **Sync Domains Now** ❷ button.



Subscribing Admin users to notifications

To subscribe Admin users to general system notifications:

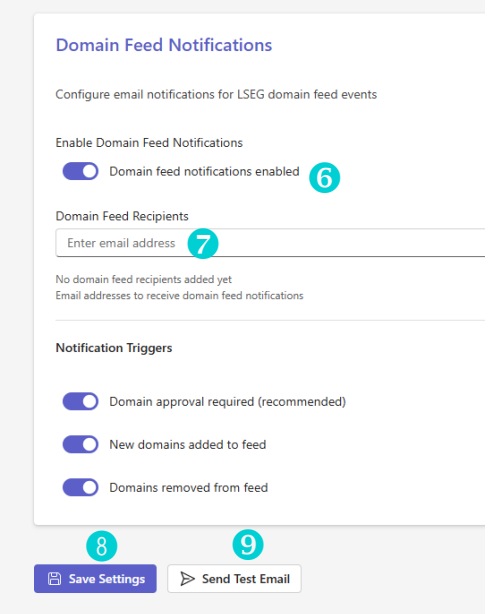
1. In ADM, select **Settings**.
2. Select **Email Notification Settings** and ensure **Email notifications enabled** ❸ is switched on.
3. Add the relevant email addresses in the **Default Recipients** ❹ field and click the **Add** button ❺.



Notifying Admin users of domain changes

To notify Admin users of changes to the domains list:

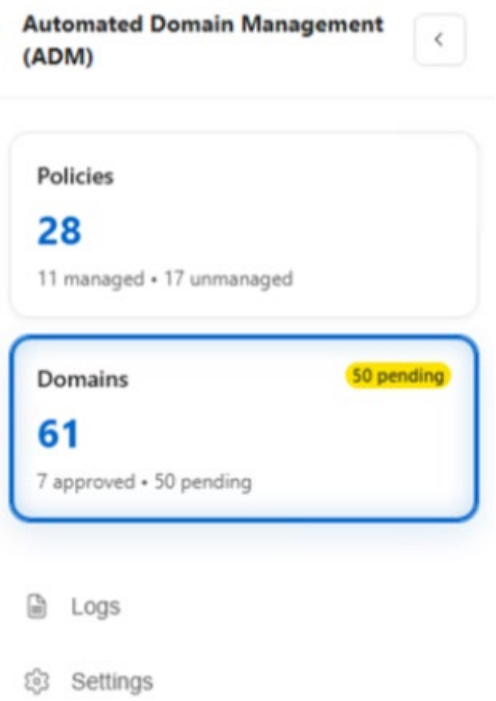
1. In ADM, select **Settings**.
2. Select **Domain Feed Notifications** and ensure **Domain feed notifications enabled** ❻ is switched on.
3. Add the relevant email addresses in the **Default Feed Recipients** ❼ field.
4. Click the **Save Settings** ❽ button and then click **Send Test Email** ❾ to verify the setup.



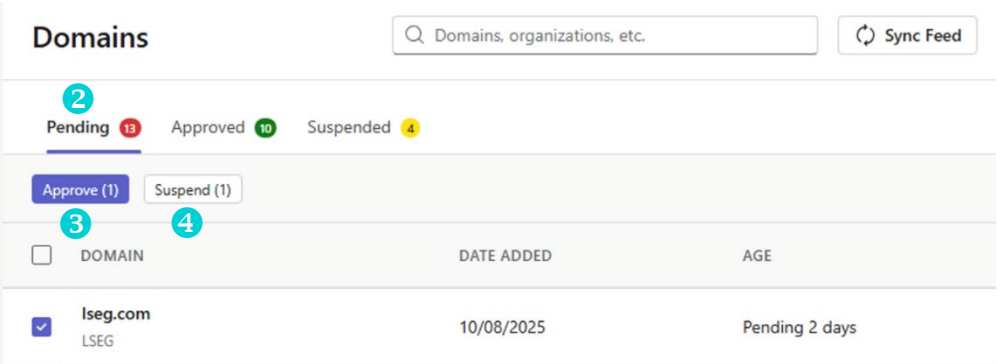
Managing domains

To either approve or suspend domains:

1. Select **Domains** 1.



2. Select domains in the **Pending** 2 list.
3. Approve 3 or 4 suspend the selected domains.



As a result:

- The approved domain will be added to the Approved list, and these domains will be available in the domain selection in Policies Management.
- The suspended domain will be added to the Suspended list, and these domains will be removed from all ADM managed policies.

Managing policies

There are two types of policies that are relevant to ADM:

Policies managed by Teams Admin Center

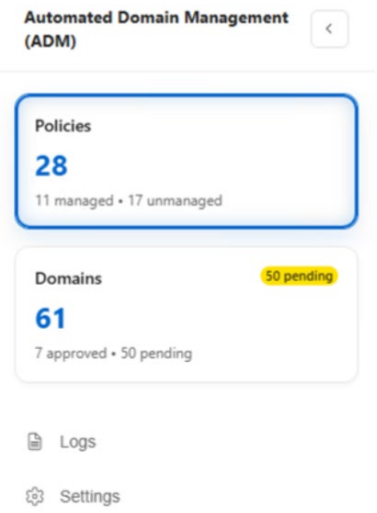
- These policies are not managed in ADM. They are created by the administrator in the Teams Admin Center, and can be used as base policies for ADM managed policies. See Creating a base policy for more information.
- Each ADM managed policy needs to be mapped 1:1 to each org policy (base policy for ADM policy).
- ADM does not change the base org policy.

Policies managed by ADM

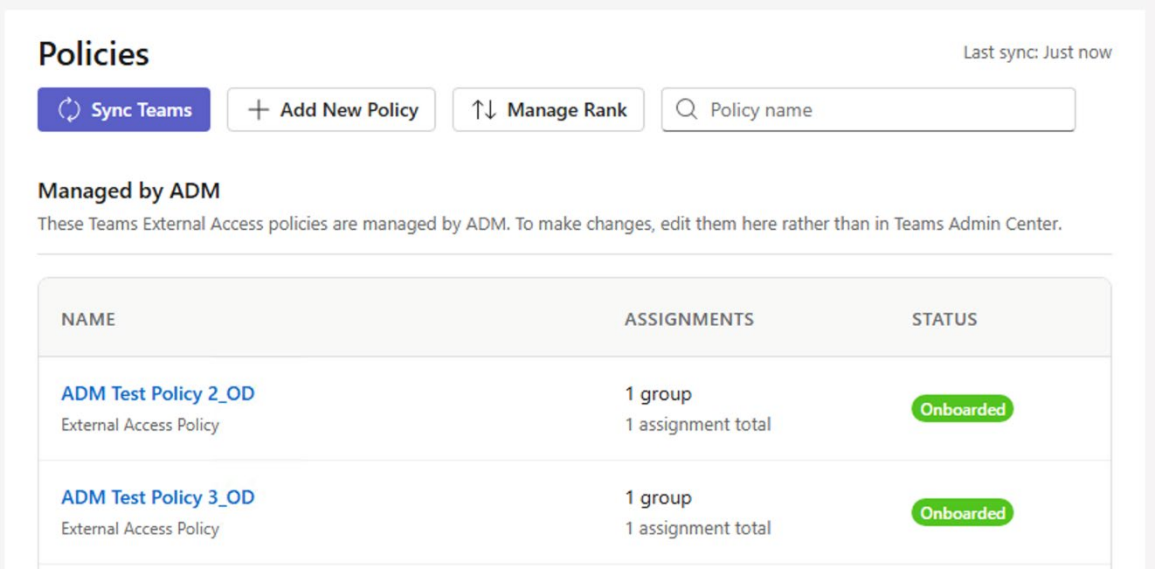
- These policies are created in ADM and can be modified within ADM.
- ADM is assigning domains, users and groups to these policies without touching anything on the org policy.

To navigate to the screen where you can manage policies for your ADM:

1. Select **Policies**.



2. Click **Sync Teams** to sync the policies available for Microsoft Teams.

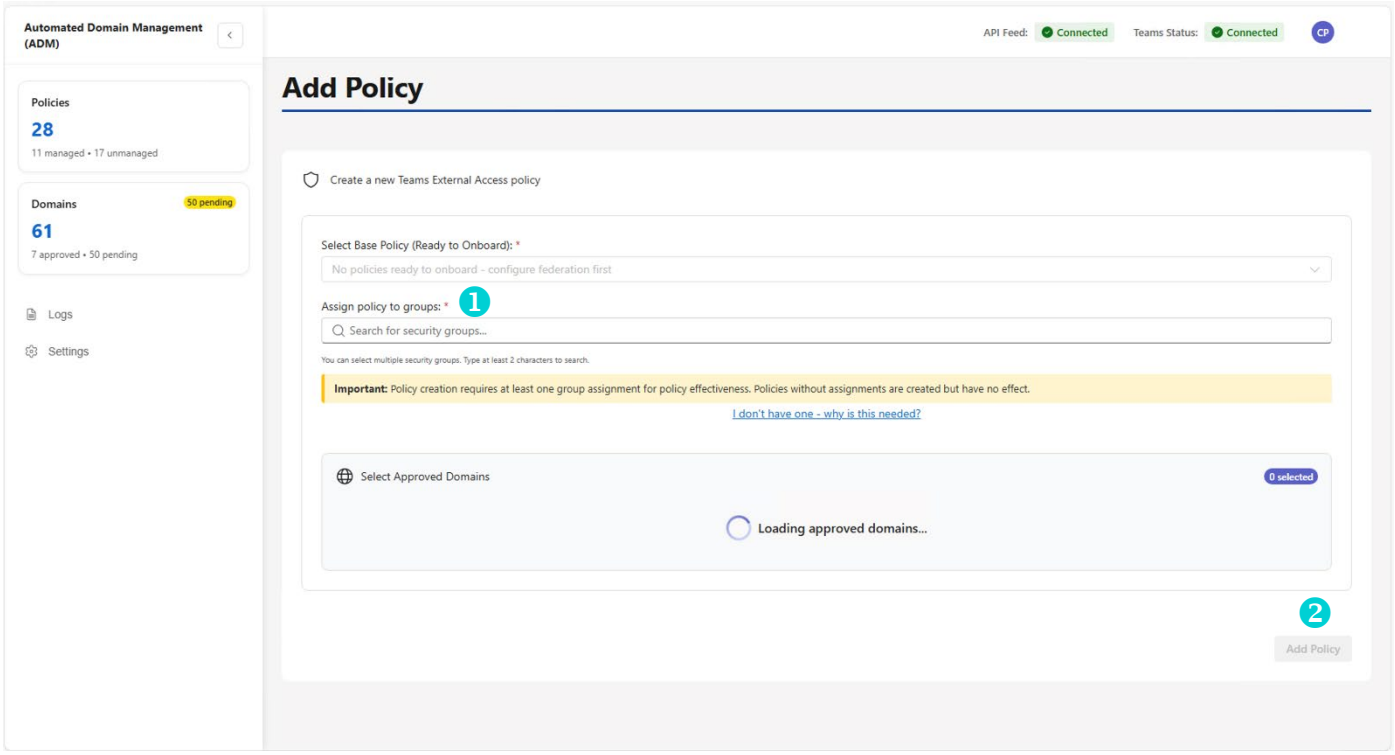


Creating a new policy

To create a new policy:

1. Click **Add New Policy** (next to the Sync Teams button).

   The Create Policy screen appears.
2. From the **Select Base Policy (Ready to Onboard)** field, select the required base policy.
3. In the **Assign policy to groups** field, select the relevant **Security Group** 1.



4. Click the **Add policy** button 2.

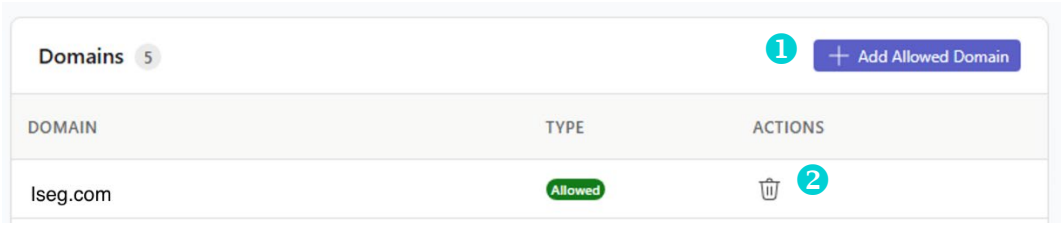
Adding or deleting a domain

To add a domain to a policy:

- Select an existing ADM managed policy and click the **Add Allowed Domain** button 1.

To delete a domain:

- Select an existing domain and click the button 2.



Support

If you need support during any stage of the installation and deployment process, during the preview phase you can contact us here: WSTEAMSonboarding@lseg.com.

Appendix A: Required permissions

The following table describes the permissions that should be granted to enable seamless collaboration and personalized user experiences within the LSEG Workspace app:

Permission	What it allows	Why it's needed	Purpose
Chat.Create	Create new 1:1 or group chats.	This is the base permission to start a new chat thread.	Enables proactive communication—users do not need to manually start a chat before sharing content.
Chat.Read.Basic	View basic information about chats (such as chat IDs and participants).	Helps the app identify existing chats or confirm chat creation.	Retrieves a list of recent chats the user has participated in to generate type-ahead suggestions for recipients.
ChatMessage.Send	Send messages into a chat.	Needed to post content into the chat after it has been created.	Deliver the message with the shared content.
openid	Enables silent single-sign on (SSO). Silent SSO allows users to access Microsoft Teams without re-entering credentials by using a session cookie and Microsoft Entra ID.	Required to verify the end user's Workspace license.	Allows Workspace end users to seamlessly access Workspace Teams.
TeamsAppInstallation.ReadWriteAndConsentForChat	Allows the app and app bot to install itself into a chat before sending a message.	Ensures the app is properly set up to deliver the shared content.	Ensures the app is present in the chat, to support features such as adaptive cards or bots.
User.ReadBasic.All	Accesses basic profile information such as name and photo.	Useful for showing user details in the chat UI or suggesting contacts.	Displays user details such as name and profile photo to enhance the experience and give users confidence that they are messaging the correct person.

Example of permissions being used

📌 The scenario below illustrates how some of these permissions are utilised in a typical workflow.

Scenario: A financial analyst is researching a company in LSEG Workspace and wants to quickly share insights with a colleague via Microsoft Teams. The following workflow is initiated:

1. User clicks 'Send via Teams' in LSEG Workspace.
2. The app uses the **chat.create** permission to check if a 1:1 or group chat already exists.
3. If not, the app will create a new chat thread between the analyst and the recipient.
4. The app uses **chatmessage.send** to post a message with a link to the company insights.
5. If the app is not already installed in the chat, it uses **teamsappinstallation.readwriteandconsentforchat** to install itself.
6. The app may also use **user.readbasic.all** to display the recipient's name and profile picture in the UI.

Appendix B: Azure resources

The following resources will be deployed on the customer's Azure subscription during deployment of ADM:

Resource Type	Default Specification	Minimum Role Required
Action Group	Default value	Contributor or Monitoring Contributor
Application Insights	Default value	Contributor or custom role with Microsoft.Insights/components/write
Azure Database for PostgreSQL flexible server	Name:Standard_B1ms Tier:Burstable PostgreSQL version: 14.19	Contributor or DBAas Contributor
Container App	Default value	Contributor or Azure Kubernetes Service RBAC Writer
Container Apps Environment	workloadProfileType: Consumption	Contributor or custom role with Microsoft.App/managedEnvironments/write
Key vault	Family:A Name:Standard	Contributor or Key Vault Contributor or custom role with Microsoft.KeyVault/vaults/* permissions
Log Analytics workspace	Name:PerGB2018	Contributor or Log Analytics Contributor
Static Web App	Name:Free Tier:Free	Contributor or Website Contributor
Storage account	Name:Standard_LRS Tier:Standard	Contributor or Storage Account Contributor
App Registration - frontend	Graph API delegated permissions (admin consent required): • User.Read – Required for reading user info of the current admin user who is using the app	Contributor
App Registration - backend	Graph API Application permissions (admin consent required): • Application.Read.All - Required for checking app consents are configured correctly • Group.ReadWrite.All - Required for creating security groups to assign newly created policies • GroupMember.Read.All - Required for read security group members to analyze assignments • Mail.Send - required for sending email • Organization.Read.All - Required for teams powershell authentication • User.ReadBasic.All - Required for reading user info for individual user search	Contributor

Appendix C: Frequently asked questions

What is the Automated Domain Management (ADM) app?

The ADM app is a management tool for Microsoft Teams administrators designed to keep external collaboration policies aligned with LSEG's Open Directory network. It automates the process of:

- Subscribing to a domain feed
- Updating federation policies
- Managing collaboration rules at scale

What problem does the ADM app solve?

To communicate externally in Microsoft Teams, organisations must federate with numerous entities in a point-to-point way. Existing workflows require manual processing, which is time-consuming and prone to error. The ADM app automates this process, reduces administrative overhead, and allows policies to remain up to date. ADM features a user-friendly front-end, robust backend services, and is deployed inside the customer's own environment to ensure that sensitive data does not leave the customer data boundary.

How does the app work?

The ADM app creates external access policies within Microsoft Teams, facilitating communication between users and other members of the Open Directory network. These policies, also referred to as external collaboration or federation policies, ensure that only specific individuals in the organisation (in other words, Open Directory users) can communicate only with other Open Directory customers, and to those within your existing federation policies. This capability is enabled by the new Granular Federation Controls feature in Microsoft Teams.

The ADM app will:

- Create new external access policies in Teams
- Synchronise created policies with:
  - Approved domains received from LSEG
  - Other, organisation-managed, policies in Teams
- Assign policies to appropriate users / groups
- Provide workflow for admins to approve / reject domains received from LSEG

The ADM app does not:

- Send tenant configuration or messaging data to LSEG
- Store tenant configuration other than for policies it manages (which it does locally in your environment)
- Edit existing organisation configuration or policies, except in very limited circumstances and with admin consent (see What is Granular Federation Control?, below).

What is Granular Federation Control?

Granular Federation Control is a new feature in Microsoft Teams which enables administrators to configure different federation policies for different groups of users in their organisation.

For granular federation controls to work, the property AllFederatedUsers must be set to true. This is a tenant-wide setting. The ADM app will check this and inform the administrator that it must be set correctly before continuing. The administrator can do this themselves, or the ADM app can do it on their behalf. Changing this value from false to true will enable federation at the tenant-wide level. If this was set to prevent any federation within the tenant, the admin should set the AllowedDomains property to null.

For more information, see Set Tenant Federation Configuration and Set External Access Policy on Microsoft Learn.

How does the ADM app know which settings and domains to configure?

New policies generated by the ADM app are based upon a pre-existing policy that is managed by the organisation's administrator within the Teams Admin Centre (TAC). The ADM app continuously synchronises these new policies with the corresponding base policy. Administrators continue to update their org policies as usual, and the ADM app keeps the policies it manages aligned with any updates made by administrators to the base policy in the TAC.

Federated domains are configured on the ADM-managed policy by referencing both the original baseline policy and the list of approved domains provided by LSEG. This approach allows approved domains from LSEG to be configured, while retaining the organisation’s ability to customise policies enabling communication beyond Open Directory.

ADM does not edit any organisation-managed policies, meaning that administrators can continue to manage their existing policies as usual and the ADM app will resolve any policy conflicts as per the settings chosen by the administrator.

How does the ADM app know which users should be assigned the policy?

The app knows which users should be assigned the policy once administrators have created the relevant security groups and specified users to them.

Do I have control over these policies?

Yes. Administrators can specify whether new domains added to the network by LSEG should be automatically approved and applied to their organisation’s policies, or if approval is required first.

Additionally, adminitrators can specify ’always-block‘ lists that take precedence over the domain feed, ensuring critical domains remain blocked regardless of feed updates.

As policies are synced with base organisation policies, administrators continue to manage their organisation policies as usual, and changes will be replicated to the corresponding ADM-managed policy. This allows administrators to add additional domains which are not members of Open Directory, ensuring users are still able to communicate with these organisations.

How does the ADM app handle security and compliance?

The ADM app leverages Microsoft Azure’s platform-managed services to allow high availability, security, and compliance. It supports secure authentication with Entra ID and maintains comprehensive audit logs. The ADM app requires a service principal in your Entra tenant so that it can connect to the Teams PowerShell service. This service principal requires the Teams Administrator privileges.

The ADM app also requires administrators to create an app registration in Entra to enable SSO to the management portal.

What technology does this use and how is it deployed?

The solution uses Azure platform-managed services, which provide native high availability without requiring custom application-level high availability logic.

The ADM app will have dependencies on the following Azure platform services:

- Azure Container Apps
- Azure Static Web Apps
- Key Vault
- Application Insights
- PostgreSQL

Services such as Azure App Service, Function Apps, Key Vault, and Entra ID are inherently resilient and distributed, ensuring uptime through zone and regional redundancy.

For disaster recovery, the solution is designed to be re-deployable by administrators in alignment with their specific disaster recovery requirements. Infrastructure-as-Code templates support rapid provisioning in alternate regions, while data services use

geo-redundant configurations to protect against regional failures. Key Vault secrets and configuration settings can be replicated across vaults, and monitoring via Application Insights allows visibility and supports proactive recovery actions.

Deploying the ADM app requires provisioning infrastructure in Azure, which can be automated using Azure Resource Manager (ARM) and PowerShell deployment scripts.

Customers are free to tailor the solution per their requirements, for example selecting alternative high availability / disaster recovery options, scaling, network connectivity, load balancing, and so on.

lseg.com

LSEG DATA & ANALYTICS

Document version: 100.04