



ELO Sync

Registration in Azure



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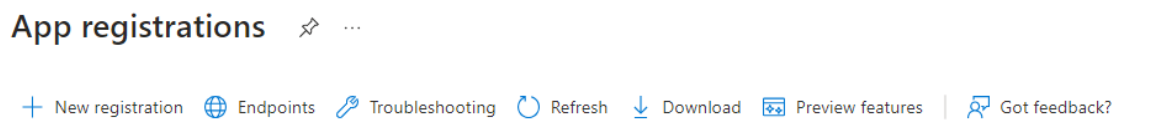
ELO Sync in Azure

This chapter describes how to register ELO Sync in Azure. These actions are required for authentication with Microsoft Entra and access to Microsoft 365 resources.

In our guide, ELO Sync is available under <https://elo-sync.local/> and registered as *ELOSyncApp* (replace as needed).

1. Create a new app registration in the Azure Management portal.

Navigate to [App registrations](#), then click *New registration*.



2. Enter the information required for the new application.

1. Enter the name *EloSyncApp* as the name for the application (or a name of your choice).
2. For supported account types, generally select *Accounts in this organizational directory only (Single tenant)*, though the second option *Multitenant* may apply depending on the structure of your organization.
3. Under Redirect URI, select the *Web* platform and enter <https://<server name:port>/signin-oidc-custom>.

[Home](#) > [App registrations](#) >

Register an application

* Name

The user-facing display name for this application (this can be changed later).

EloSyncApp ✓

Supported account types

Who can use this application or access this API?

- ☒ Accounts in this organizational directory only (- Single tenant)
- ☐ Accounts in any organizational directory (Any Microsoft Entra ID tenant - Multitenant)
- ☐ Accounts in any organizational directory (Any Microsoft Entra ID tenant - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)
- ☐ Personal Microsoft accounts only

[Help me choose...](#)

Redirect URI (optional)

We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios.

Web https://Servername/signin-oidc-custom ✓

Register an app you're working on here. Integrate gallery apps and other apps from outside your organization by adding from [Enterprise applications](#).

There are two options:

- The 'PublicUrl' node in the 'appsettings.json' file is empty: enter the following values: `https://myserver:5063/signin-oidc-custom`

```

37  "Kestrel": {
38    "Endpoints": {
39      "HttpsInlineCertFile": {
40        "Url": "https://myserver:5063",

```

- The 'PublicUrl' node in the 'appsettings.json' file was set: enter the following value in the Redirect URI: `https://mydomain.com/signin-oidc-custom`

```

11  "PublicUrl": "https://mydomain.com",

```

Information

The path `/signin-oidc-custom` can be changed in the `appsettings.json` file. See Configuration for more information.

4. Confirm the information and create the app registration.
3. While you are editing the `appsettings.json` file, go to the *Overview* for the application and copy the `ClientId` and `TenantId` information.
4. Open the newly created *ELOSyncApp* application and select the menu item *Authentication*.

Here, you have to change the settings under *Implicit grant and hybrid flows* and enable both *Access tokens* and *ID tokens*.

Implicit grant and hybrid flows

Request a token directly from the authorization endpoint. If the application has a single-page architecture (SPA) and doesn't use the authorization code flow, or if it invokes a web API via JavaScript, select both access tokens and ID tokens. For ASP.NET Core web apps and other web apps that use hybrid authentication, select only ID tokens. [Learn more about tokens.](#)

Select the tokens you would like to be issued by the authorization endpoint:

- ☒ Access tokens (used for implicit flows)
- ☒ ID tokens (used for implicit and hybrid flows)

Once you have changed the settings, click Save.

5. Create a new app secret
 1. Select the *Certificates & secrets* menu item.
 2. Select the *Client secrets* tab.
 3. Click *New client secret*.
 4. Select a meaningful description and duration for the new secret and confirm with Add.
 - 5.

IMPORTANT: After you create the secret, it is only possible to copy the created secret. While you are editing the appsettings.json file, copy this value to ClientSecret, otherwise copy it to a temporary, secure location where you can access it.

Certificates (0) **Client secrets (1)** Federated credentials (0)

A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.

+ New client secret

Description	Expires	Value ①	Secret ID
Password uploaded on Tue Apr 23 2024	10/20/2024	[REDACTED]	f64067aa-ecfa-48af-bb9b-b75821a24b6f

6. Add the required permissions for ELO Sync.

ELO Sync itself requires permissions to access data via the Microsoft Graph API, either for itself or on behalf of users.

1. Select the *API permissions* menu item.
2. Click *Add a permission* for the following:

Key	Location	Required for
openid	Microsoft Graph/Delegated/ openid	User authentication
offline_access	Microsoft Graph/Delegated/ offline_access	Retain access to the data you gave ELO Sync access to.
User.Read	Microsoft Graph/Delegated/ User.Read	Sign in and read user profile

Please note

IMPORTANT: These are the only basic permissions. Additional permissions may be required depending on the application. You will find more information under Permissions.

EloSyncApp | API permissions

Search Refresh Got feedback?

Overview Quickstart Integration assistant Diagnose and solve problems Manage Branding & properties Authentication Certificates & secrets Token configuration **API permissions** Expose an API App roles Owners Roles and administrators Manifest Support + Troubleshooting

Granting tenant-wide consent may revoke permissions that have already been granted tenant-wide for that application. Permissions that users have already granted on their own behalf aren't affected. [Learn more](#)

The "Admin consent required" column shows the default value for an organization. However, user consent can be customized per permission, user, or app. This column may not reflect the value in your organization, or in organizations where this app will be used. [Learn more](#)

Configured permissions

Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions should include all the permissions the application needs. [Learn more about permissions and consent](#)

+ Add a permission ✓ Grant admin consent for MSFT

API / Permissions name	Type	Description	Admin consent requ...	Status
Microsoft Graph (9)				...
Files.Read.All	Delegated	Read all files that user can access	No	...
Files.ReadWrite.All	Delegated	Have full access to all files user can access	No	...
Group.Read.All	Delegated	Read all groups	Yes	⚠ Not granted for MSFT ...
offline_access	Delegated	Maintain access to data you have given it access to	No	...
openid	Delegated	Sign users in	No	...
Sites.Manage.All	Delegated	Create, edit, and delete items and lists in all site collections	No	...
Sites.Read.All	Delegated	Read items in all site collections	No	...
Sites.ReadWrite.All	Delegated	Edit or delete items in all site collections	No	...
User.Read	Delegated	Sign in and read user profile	No	...

3.

Click *Add a permission*, then select *APIs my organization uses*

4. Search for and select *ELOSyncApp*. Add the newly created permission *SyncJobs.ReadWrite.All*.

Information

The permission may not be listed yet. This can take a few minutes for the changes to be synchronized across all systems in Azure. If this is the case, try again later.

5. If required, you can grant admin consent for all configured permissions so that users do not have to grant individual access to their data.
7. Check that all permissions are correct. In the screenshot below you can see an example for using admin consent:

Home > App registrations > EloSyncApp

EloSyncApp | API permissions

Search Refresh Got feedback?

Overview
Quickstart
Integration assistant
Diagnose and solve problems

Manage
Branding & properties
Authentication
Certificates & secrets
Token configuration
API permissions
Expose an API
App roles
Owners
Roles and administrators
Manifest
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Successfully granted admin consent for the requested permissions.

The "Admin consent required" column shows the default value for an organization. However, user consent can be customized per permission, user, or app. This column may not reflect the value in your organization, or in organizations where this app will be used. [Learn more](#)

Configured permissions

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Files.ReadWrite.All	Delegated	Have full access to all files user can access	No	✓ Granted for MSFT ...
Group.Read.All	Delegated	Read all groups	Yes	✓ Granted for MSFT ...
offline_access	Delegated	Maintain access to data you have given it access to	No	✓ Granted for MSFT ...
openid	Delegated	Sign users in	No	✓ Granted for MSFT ...
Sites.Manage.All	Delegated	Create, edit, and delete items and lists in all site collections	No	✓ Granted for MSFT ...
Sites.Read.All	Delegated	Read items in all site collections	No	✓ Granted for MSFT ...
Sites.ReadWrite.All	Delegated	Edit or delete items in all site collections	No	✓ Granted for MSFT ...
User.Read	Delegated	Sign in and read user profile	No	✓ Granted for MSFT ...

Required permissions for each application

Permission-Matrix Microsoft Graph

- Delegated
- Application

	openid	offline_access	User. Read	Files.Read or Files.Read.All	Files.ReadWrite or Files.ReadWrite.All	Sites.Read. All	Sites.ReadWrite. All	Sites.Manage. All	Group.Read.All
SPO-Folder->ELO	X	X	X	X		X			
SPO-List/DocLib->ELO	X	X	X	X		X			
SPO-Site->ELO	X	X	X	X		X			
SPO-Folder<-ELO	X	X	X		X	X			
SPO-List/DocLib<-ELO	X	X	X		X		X		
SPO-Site<-ELO	X	X	X		X		X	X	
SPO-Folder<->ELO	X	X	X		X	X			
SPO-List/DocLib<->ELO	X	X	X		X		X		
SPO-Site<->ELO	X	X	X		X		X	X	
OD-Folder->ELO	X	X	X	X					X
OD-Folder<-ELO	X	X	X		X				X
OD-Folder<->ELO	X	X	X		X				X

OpenID/Entra ID

The following permissions are required for user authentication:

Microsoft Graph → Delegated permissions → openid: Required for user authentication.

Microsoft Graph → Delegated permissions → offline_access: Required to retain access to data the user gave ELO Sync access to. This enables the continuous synchronization of data without user intervention.

Microsoft Graph → Delegated permissions → User.Read: Required for authentication and to read the user profile. This is required for authentication with the ELO repository.

SharePoint Online

Archiving folders

Microsoft Graph → Delegated permissions → Sites.Read.All: Required to read the content of the selected SharePoint sites, lists, and document libraries. Only the elements that the user who created the job can see are archived.

In addition, the same file rights are required as with archiving files.

Bidirectional synchronization of folders

Requires the same permissions as archiving folders.

In addition, the same file rights are required as with bidirectional synchronization of files.

Publishing in a folder

Requires the same permissions as archiving folders.

In addition, the same file rights are required as with publishing on a drive.

Archiving lists/libraries

Microsoft Graph → Delegated permissions → Sites.Read.All: Required to read the content of the selected SharePoint sites, lists, and document libraries. Only the elements that the user who created the job can see are archived.

Bidirectional synchronization of lists or libraries

Microsoft Graph → Delegated permissions → Sites.ReadWrite.All: Required to create, edit, or delete elements in the selected SharePoint lists and document libraries. The user creating the job must have read/write access to the list/library.

Publishing in a list/library

Requires the same permissions as bidirectional synchronization of lists or libraries.

Archiving a site

Microsoft Graph → Delegated permissions → Sites.Read.All: Required to read the content of the selected SharePoint site.

Bidirectional synchronization of a site

All permissions are required for full functionality.

Microsoft Graph → Delegated permissions → Sites.ReadWrite.All: Required to create, edit, or delete elements in the lists/libraries of the selected SharePoint site.

Microsoft Graph → Delegated permissions → Sites.Manage.All: Required to create document libraries in the selected SharePoint site. New document libraries are created automatically for each of the corresponding child folders in the ELO target folder.

Publishing on a site

Requires the same permissions as bidirectional synchronization of a site.

OneDrive

General

Microsoft Graph → Delegated permissions → Group.Read.All: Required to read the available OneDrive groups so that the user can select the drives of this group in the job configuration.

Archiving files

One of the following permissions is required. Setting both is not necessary and does not offer any additional functions.

Microsoft Graph → Delegated permissions → Files.Read: Required to read the content of the selected OneDrive drives. Only files of the user creating the job are archived. Shared files of other users are not archived.

Microsoft Graph → Delegated permissions → Files.Read.All: Required to read the content of the selected OneDrive drives. All files belonging to the user who created the job or that were shared with them are archived.

Bidirectional synchronization of files

One of the following permissions is required. Setting both is not necessary and does not offer any additional functions.

Microsoft Graph → Delegated permissions → Files.ReadWrite: Required to create, edit, or delete files in the selected OneDrive drives. Only files belonging to the user who created the job are synchronized. Shared files of other users are not synchronized.

Microsoft Graph → Delegated permissions → Files.ReadWrite.All: Required to create, edit, or delete files in the selected OneDrive drives. All files that the user who created the job owns that have been shared with them are synchronized.

Publishing on a drive

Requires the same permissions as bidirectional synchronization of files.