

Azure AD - App registration

Overview

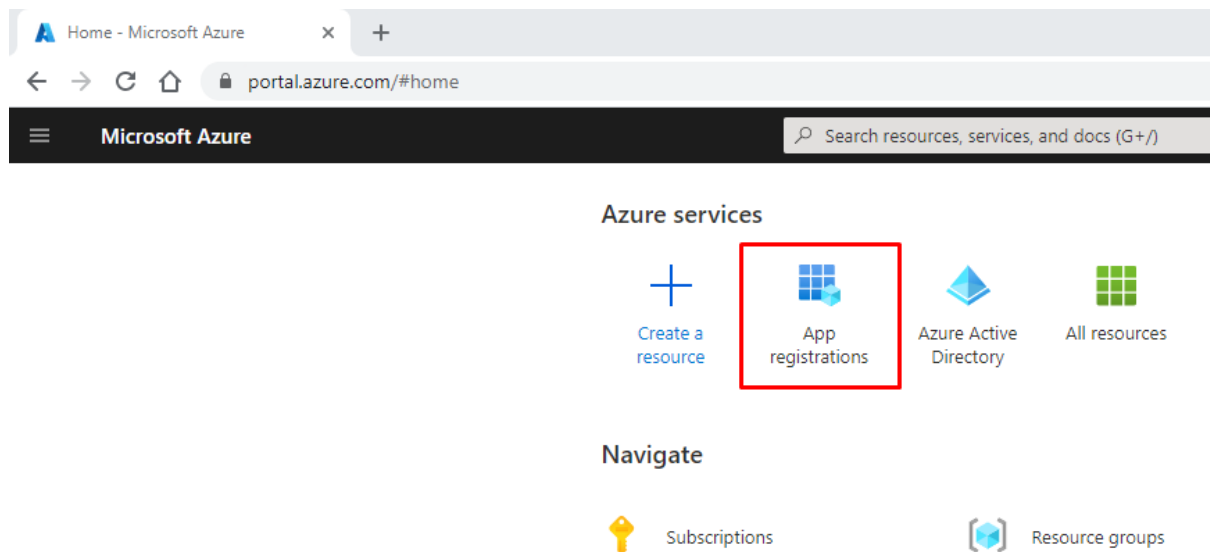
This instruction shows you how to create an app in Azure that enables you to get groups and group members from your AD into your Bosbec account.

We will use our workflows to build an integration towards the Microsoft Graph API. In order to configure the workflow we need three parameters from your Azure account.

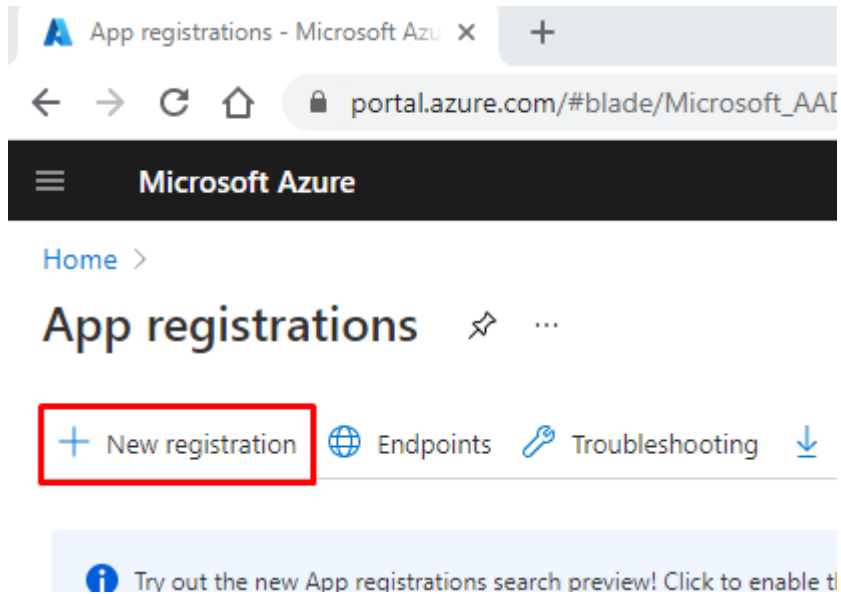
- Directory (tenant) ID
- Application (client) ID
- Client secret

Creating the app registration

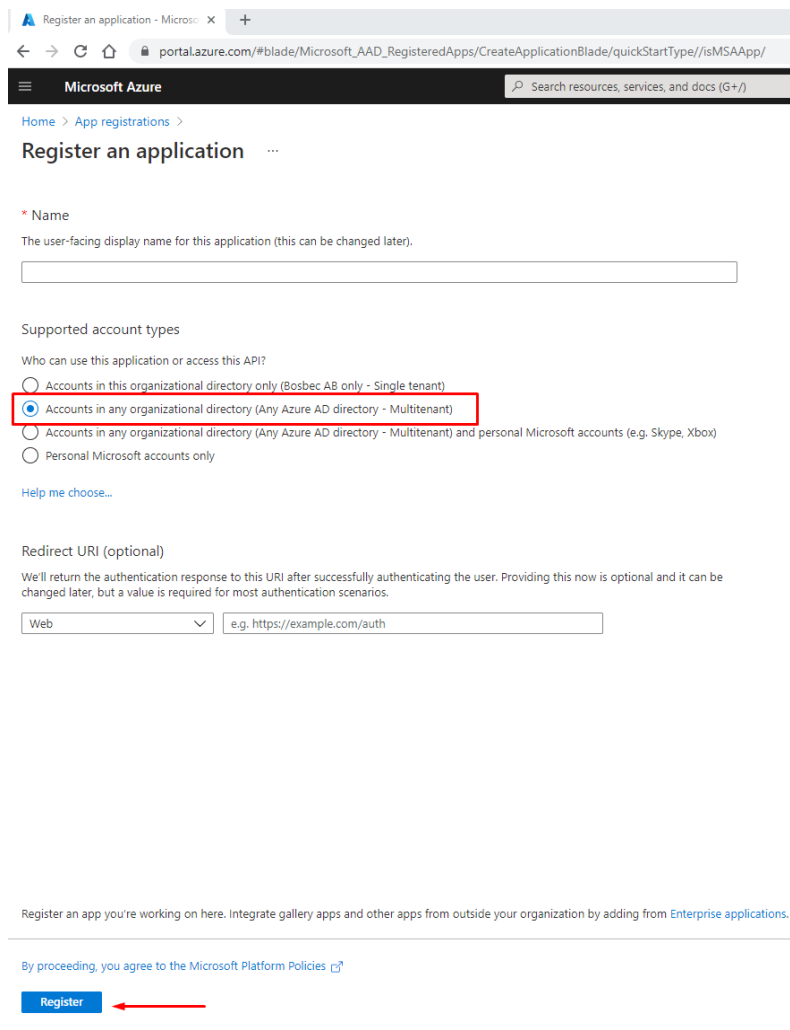
Start by going to portal.azure.com and click in app registrations



Click "New registration"



Enter a name to help you identify the app and for account type choose the second option "Any Azure Account - Multi-tenant".



Next we will add permissions to access the groups and group members from your Azure AD. Select API permissions from the menu and then “Add a permission”. Choose Microsoft Graph as the API you want to work with.

The screenshot shows the Azure AD portal interface for configuring API permissions for an application. On the left, the navigation pane includes 'API permissions' which is highlighted with a red box. The main area shows 'Configured permissions' with a table listing existing permissions. A red box highlights the '+ Add a permission' button. To the right, the 'Request API permissions' pane is open, showing a list of 'Commonly used Microsoft APIs'. The 'Microsoft Graph' API is highlighted with a red box, indicating it is the selected option.

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 all the permissions the application needs. [Learn more about permissions and consent](#)

+ Add a permission ✓ Grant admin consent for Bosbec AB

API / Permissions name	Type	Description	Admin consent req.
Microsoft Graph (1)			
User.Read	Delegated	Sign in and read user profile	No

To view and manage permissions and user consent, try [Enterprise applications](#).

Request API permissions

Select an API

Microsoft APIs | APIs my organization uses | My APIs

Commonly used Microsoft APIs

- Microsoft Graph**
Take advantage of the tremendous amount of data in Office 365, Enterprise Mobility + Security, and Windows 10. Access Azure AD, Excel, Intune, Outlook/Exchange, OneDrive, OneNote, SharePoint, Planner, and more through a single endpoint.
- Azure DevOps**
Integrate with Azure DevOps and Azure DevOps server
- Azure Rights Management Services**
Allow validated users to read and write protected content
- Azure Service Management**
Programmatic access to much of the functionality available through the Azure portal
- Data Export Service for Microsoft Dynamics 365**
Export data from Microsoft Dynamics CRM organization to an external destination
- Dynamics 365 Business Central**
Programmatic access to data and functionality in Dynamics 365 Business Central
- Dynamics CRM**
Access the capabilities of CRM business software and ERP systems
- Flow Service**
Embed Flow templates and manage flows
- Intune**
Programmatic access to Intune data
- Office 365 Management APIs**
Retrieve information about user, admin, system, and policy actions and events

Next choose “application permissions” as type and the search and add the following permissions (you can select multiple permissions at the same time).

- Application.ReadAll
- Directory.ReadAll
- Domain.ReadAll
- Group.ReadAll
- GroupMember.ReadAll
- User.ReadAll

[← All APIs](#)



Microsoft Graph

<https://graph.microsoft.com/> [Docs](#) [↗](#)

What type of permissions does your application require?

Delegated permissions

Your application needs to access the API as the signed-in user.

Application permissions

Your application runs as a background service or daemon without a signed-in user.

Select permissions

[expand all](#)

Permission	Admin consent required
> Calls	
✓ Group (1)	
<input type="checkbox"/> Group.Create ⓘ Create groups	Yes
<input checked="" type="checkbox"/> Group.Read.All ⓘ Read all groups	Yes
<input type="checkbox"/> Group.ReadWrite.All ⓘ Read and write all groups	Yes
✓ GroupMember (1)	
<input checked="" type="checkbox"/> GroupMember.Read.All ⓘ Read all group memberships	Yes
<input type="checkbox"/> GroupMember.ReadWrite.All ⓘ Read and write all group memberships	Yes
> PrivilegedAccess	

After you have added the permissions you need to grant admin consent to use them.

Refresh | Got feedback?

You are editing permission(s) to your application, users will have to consent even if they've already done so previously.

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 Bosbec AB

API / Permissions name	Type	Description	Admin consent req...	Status
Microsoft Graph (7)				
Application.Read.All	Application	Read all applications	Yes	Not granted for Bosbec ...
Directory.Read.All	Application	Read directory data	Yes	Not granted for Bosbec ...
Domain.Read.All	Application	Read domains	Yes	Not granted for Bosbec ...
Group.Read.All	Application	Read all groups	Yes	Not granted for Bosbec ...
GroupMember.Read.All	Application	Read all group memberships	Yes	Not granted for Bosbec ...
User.Read	Delegated	Sign in and read user profile	No	
User.Read.All	Application	Read all users' full profiles	Yes	Not granted for Bosbec ...

To view and manage permissions and user consent, try [Enterprise applications](#).

This is how it looks after giving admin consent

+ Add a permission Grant admin consent for Bosbec AB

API / Permissions name	Type	Description	Admin consent req...	Status
Microsoft Graph (7)				
Application.Read.All	Application	Read all applications	Yes	Granted for Bosbec AB
Directory.Read.All	Application	Read directory data	Yes	Granted for Bosbec AB
Domain.Read.All	Application	Read domains	Yes	Granted for Bosbec AB
Group.Read.All	Application	Read all groups	Yes	Granted for Bosbec AB
GroupMember.Read.All	Application	Read all group memberships	Yes	Granted for Bosbec AB
User.Read	Delegated	Sign in and read user profile	No	Granted for Bosbec AB
User.Read.All	Application	Read all users' full profiles	Yes	Granted for Bosbec AB

Last step is to create a client secret. Click “Certificates & secrets” in the left menu and choose “New client secret”.

Demo app | Certificates & secrets

Search (Ctrl+/) < Got feedback?

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Support + Troubleshooting
Troubleshooting
New support request

Credentials enable confidential applications to identify themselves to the authentication service when receiving tokens at a web addressable location (using an HTTPS scheme). For a higher level of assurance, we recommend using a certificate (instead of a client secret) as a credential.

Certificates
Certificates can be used as secrets to prove the application's identity when requesting a token. Also can be referred to as public keys.

Upload certificate

Thumbprint	Start date	Expires	Certificate ID
No certificates have been added for this application.			

Client secrets
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	Secret ID
No client secrets have been created for this application.			

Enter a description and assign how long the secret should be valid. For security reasons it is good practice to change the secret once every 1-2 years. It is easy to change the secret in the workflow to a new one when it has expired and you can have more than one valid at the same time to avoid any downtime.

Add a client secret ✕

Description: For demo

Expires: Recommended: 6 months

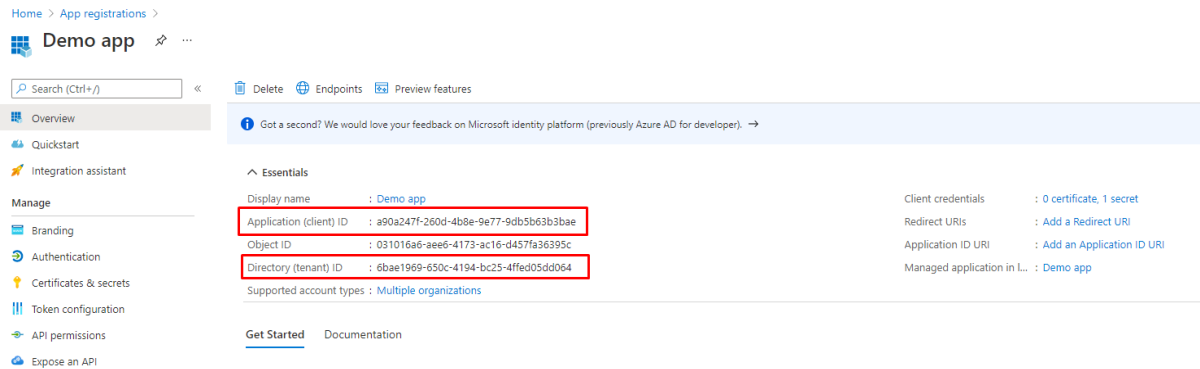
Remember that the secret is only available when it is created so make a copy of it before you move on.

Client secrets
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	Secret ID
For demo	2021-11-20	Nr4-eD3y-T_~lFE4KW7-K_~bLa8ZZJhifk	311da14c-8027-42a9-bc4c-5e32088809ac

Now you have everything you need to start configuring your workflow. You can find the application (client) id and directory (tenant) id on the overview page.



Home > App registrations > Demo app

Search (Ctrl+/) << Delete Endpoints Preview features

Overview

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Branding

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Certificates & secrets

Token configuration

API permissions

Expose an API

Got a second? We would love your feedback on Microsoft identity platform (previously Azure AD for developer). →

Essentials

Display name	: Demo app	Client credentials	: 0 certificate, 1 secret
Application (client) ID	: a90a247f-260d-4b8e-9e77-9db5b63b3bae	Redirect URIs	: Add a Redirect URI
Object ID	: 031016a6-ae6-4173-ac16-d457fa36395c	Application ID URI	: Add an Application ID URI
Directory (tenant) ID	: 6bae1969-650c-4194-bc25-4fed05dd064	Managed application in L...	: Demo app

Supported account types : Multiple organizations

Get Started Documentation

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 - a) Microsoft Graph
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 - ii) Directory.ReadAll
 - iii) Domain.ReadAll
 - iv) Group.ReadAll
 - v) GroupMember.ReadAll
 - vi) User.ReadAll
 - b) Grant admin consent
- 3) Certificates & secrets: New client secret
 - a) Value = secret
- 4) Overview
 - a) Application (client) ID
 - b) Directory (tenant) ID