

Azure App Registration for Active Directory Authentication

In order to be able to authenticate Novus users against an Azure Active Directory an Application must be created in Azure.

App creation in Azure portal

Go to your Active Directory in the Azure portal and follow the steps below.

Step 1. Register an App

Click App registrations, New registration.

Register an application

* Name

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



Supported account types

Who can use this application or access this API?

- Accounts in this organizational directory only (Bo Christian Skjøtt only - Single tenant)
- Accounts in any organizational directory (Any Azure AD directory - Multitenant)
- Accounts in any organizational directory (Any Azure AD directory - 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.



By proceeding, you agree to the [Microsoft Platform Policies](#)

Register

Call it for example **AdAuthentication** and enter this Redirect URI:

https://novus.zylinc.cloud/tenant1/auth/signin-aad

where you replace *novus.zylinc.cloud* with the hostname of your installation.

Replace **tenant1** with the tenant number that this App registration is for.

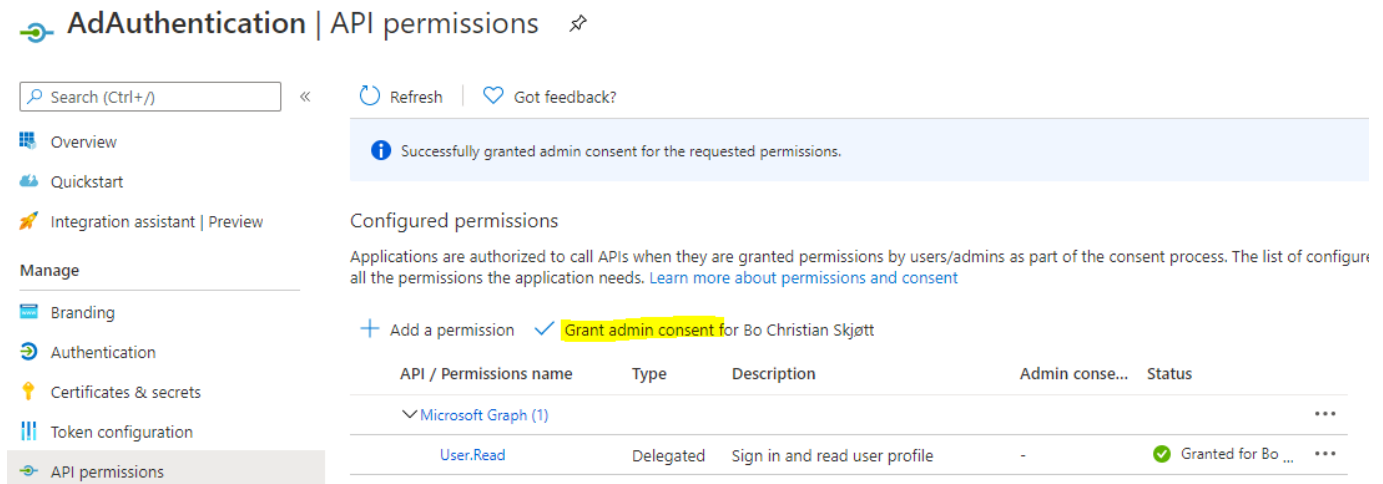
Click the Register button.

Step 2. Grant API permissions

When you have created the application it already has the required API permission, which is *User.Read*.

Click on the "**Grant admin consent for ...**" button to grant admin consent for the API permissions.

The permissions are then as shown below



AdAuthentication | API permissions

Search (Ctrl+/) Refresh Got feedback?

Overview
Quickstart
Integration assistant | Preview

Manage
Branding
Authentication
Certificates & secrets
Token configuration
API permissions

Successfully granted admin consent for the requested permissions.

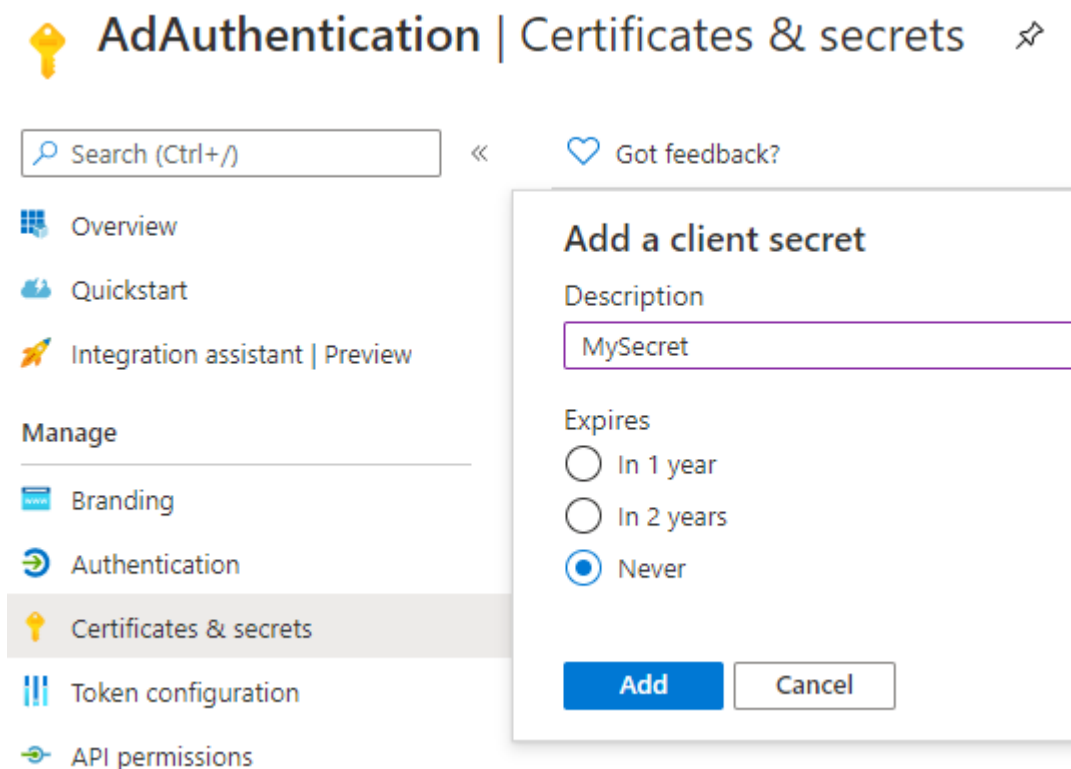
Configured permissions

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

+ Add a permission ✓ Grant admin consent for Bo Christian Skjøtt

API / Permissions name	Type	Description	Admin conse...	Status
▼ Microsoft Graph (1)				
User.Read	Delegated	Sign in and read user profile	-	✓ Granted for Bo ...

Step 3. Add a Client Secret



AdAuthentication | Certificates & secrets

Search (Ctrl+/) Got feedback?

Overview
Quickstart
Integration assistant | Preview

Manage
Branding
Authentication
Certificates & secrets
Token configuration
API permissions

Add a client secret

Description
MySecret

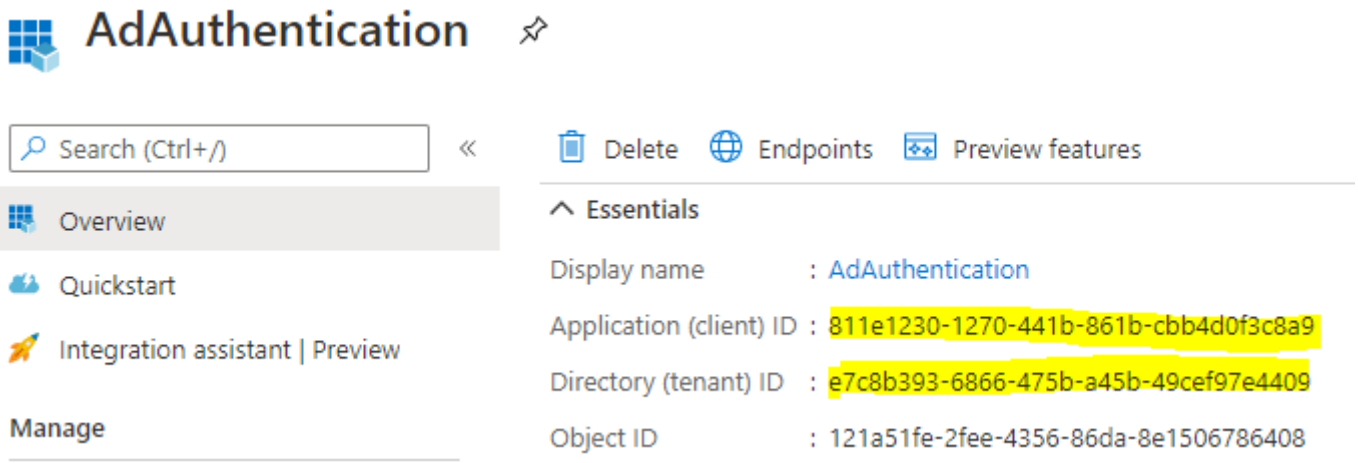
Expires
 In 1 year
 In 2 years
 Never

Add Cancel

Take a copy of the generated secret. It is only shown during creation.

Step 4. Get the Client and Tenant IDs for the application

Go to the Application Overview page and copy the Client ID and Tenant ID. You need to enter these in the Novus Configuration UI along with the Client Secret.



The screenshot shows the Azure portal interface for an application named "AdAuthentication". The left sidebar contains navigation options: Overview (selected), Quickstart, Integration assistant | Preview, and Manage. The main content area displays the application's "Essentials" information:

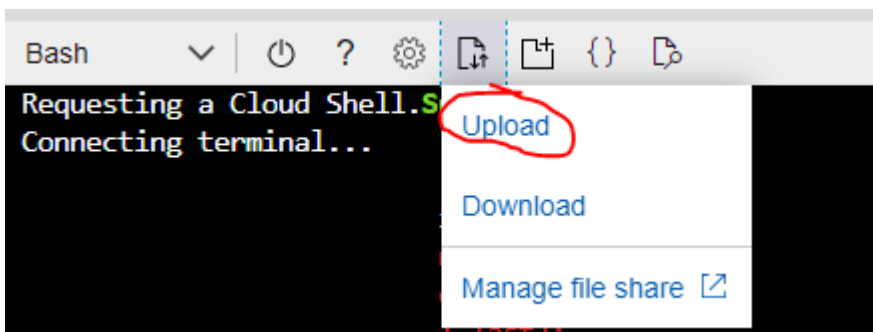
- Display name : AdAuthentication
- Application (client) ID : 811e1230-1270-441b-861b-cbb4d0f3c8a9
- Directory (tenant) ID : e7c8b393-6866-475b-a45b-49cef97e4409
- Object ID : 121a51fe-2fee-4356-86da-8e1506786408

App creation using Azure CLI commands

The application can also be made with the Azure CLI commands below.

Copy the **requiredResourceAccess.json** file to the Azure storage (clouddrive) used by Azure CLI.

If you are using the **Cloud Shell** in the Azure Portal then you can click on the Upload File button in its menubar as shown below



```
az ad app create \  
--display-name AdAuthentication \  
--password VerySecretWord#1234 \  
--end-date 2100-12-31 \  
--reply-urls https://novus.zylinec.cloud/tenant1/auth/signin-aad \  
--required-resource-accesses requiredResourceAccess.json
```

Replace the password with your choice.

Replace the **reply-urls** to match your installation.

Grant admin consent for the requested API permissions with this command

```
az ad app permission admin-consent --id 00000000-0000-0000-0000-000000000000
```

where 00000000-0000-0000-0000-000000000000 must be replaced with the actual ID of the application created above.

(Note: the az ad app permission admin-consent fails with an exception)