

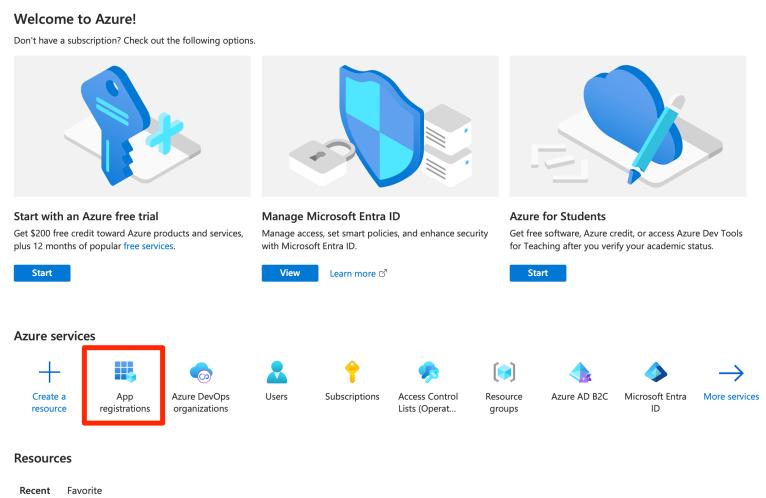
# How to Configure OAuth 2.0 for Azure DevOps

Last Modified on 01/15/2026 7:37 pm EST

The guide is specifically designed for organizations that manage their identities and access through **Microsoft Entra ID** (formerly Azure Active Directory). This article will walk you through the essential steps for configuring your Exalate node with OAuth 2.0.

## Register a New App

1. Navigate to [Azure Portal](#)
2. Sign in using an organizational account that has sufficient permissions to register applications within your Microsoft Entra ID tenant
3. Once signed in, in the Azure portal search bar, type **App registrations** and select the App registrations service.



### 4. Fields to fill:

- **Name**
- **Who can use this application or access this API?**
  - Accounts in this organizational directory only (Default Directory only - Single tenant)
- **Redirect URI**
  - select Web
  - append `/azure/callback` to your Exalate URL ( you can find the Exalate URL on the Registration page)

**General Settings**

\*Authentication Method  
OAuth 2.0

You must belong to Project Collection Administrators group.  
For more details, check [how to configure OAuth 2.0](#).

\*Exalate Url  
https://azurenodenode-xxxx-xxxx-xxxx-xxxx.exalate.cloud

\*Client ID

\*Tenant ID

\*Client Secret

**Example:** https://azurenodenode-xxxx-xxxx-xxxx-xxxx.exalate.cloud/azure/callback

## Register an application

### \* Name

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

Test ✓

### Supported account types

Who can use this application or access this API?

- Accounts in this organizational directory only (Default 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://azurenodenode-xxxx-xxxx-xxxx-xxxx.exalate.cloud/azure/callback ✓

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

5. After filling in all the required fields, click the **Register** button at the bottom of the page to create your application registration.

**Note:** **Client ID** and **Tenant ID** values will be required when you proceed with registering your Exalate node.

Home > App registrations >

 TEST

**Overview**

Search

**Essentials**

Display name : TEST	Client credentials : <a href="#">Add a certificate or secret</a>
Application (client) ID : 6142	Redirect URIs : <a href="#">1 web, 0 spa, 0 public client</a>
Object ID : 9684	Application ID URI : <a href="#">Add an Application ID URI</a>
Directory (tenant) ID : d6b	Managed application in... : TEST

Supported account types : [My organization only](#)

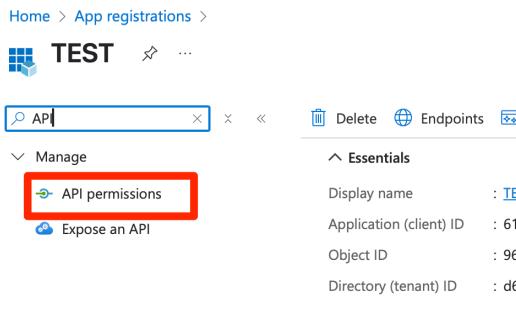
**Get Started** Documentation

**Build your application with the Microsoft identity platform**

The Microsoft identity platform is an authentication service, open-source libraries, and application management tools. You can create modern, standards-based authentication solutions, access and protect APIs, and add sign-in for your users and customers. [Learn more](#)

# Add the API Permissions in the App

## 1. Search for API

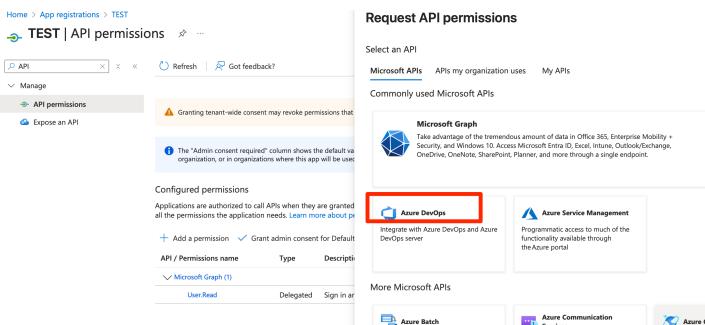


The screenshot shows the 'API permissions' section of the Azure portal. The 'TEST' app registration is selected. The 'API permissions' tab is highlighted with a red box. The 'Essentials' section displays the following details:

Display name	: TE'
Application (client) ID	: 61
Object ID	: 961
Directory (tenant) ID	: d61

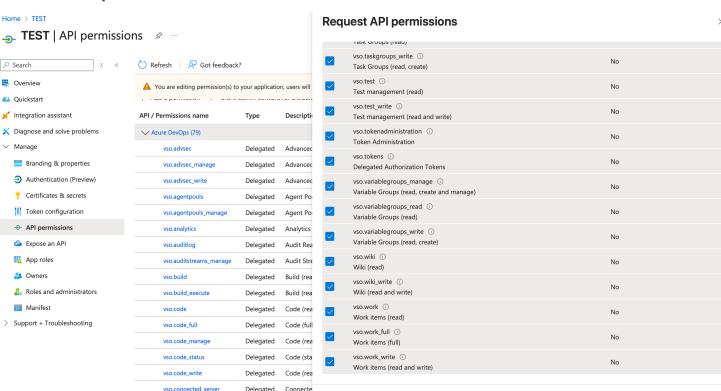
## 2. Click on Add permission

- Click on Azure DevOps



The screenshot shows the 'Request API permissions' dialog for the Azure DevOps API. The 'Azure DevOps' tab is selected. The 'Configured permissions' section shows a single permission: 'User.Read' (Delegated, Sign in or another account). The 'Azure DevOps' section is highlighted with a red box.

- Give all permissions related to VSO



The screenshot shows the 'Request API permissions' dialog for the Microsoft Graph API. The 'Microsoft Graph' tab is selected. The 'Configure permissions' section shows a list of permissions, many of which are highlighted with red boxes. The permissions include:

- Tasks.read, write (Delegated, Application)
- Task Groups (read, create) (Delegated, Application)
- Task management (read) (Delegated, Application)
- Task management (read and write) (Delegated, Application)
- Task administration (Delegated, Application)
- Token Administration (Delegated, Application)
- Variable Groups (read, create and manage) (Delegated, Application)
- Variable Groups (read) (Delegated, Application)
- Variable Groups (read, create) (Delegated, Application)
- Variable Groups (read, write) (Delegated, Application)
- Variable Groups (read, write, create) (Delegated, Application)
- Wiki (read) (Delegated, Application)
- Wiki (read, write) (Delegated, Application)
- Work (read and write) (Delegated, Application)
- Work items (read) (Delegated, Application)
- Work items (full) (Delegated, Application)
- Work items (read) (Delegated, Application)
- Work items (read and write) (Delegated, Application)

- Click on Microsoft Graph and give permissions related to Application and User, as shown in the screenshot below.

- Application.Read.All
- Application.ReadWrite.All
- Directory.ReadWrite.All
- User.Read

- User.ReadWrite.All

vso.work_write	Delegated	Work items (read and write)
↳ Microsoft Graph (5)		
Application.Read.All	Delegated	Read applications
Application.ReadWrite.All	Delegated	Read and write all applications
Directory.ReadWrite.All	Delegated	Read and write directory data
User.Read	Delegated	Sign in and read user profile
User.ReadWrite.All	Delegated	Read and write all users' full profiles

## Grant Admin consent

### Configured permissions

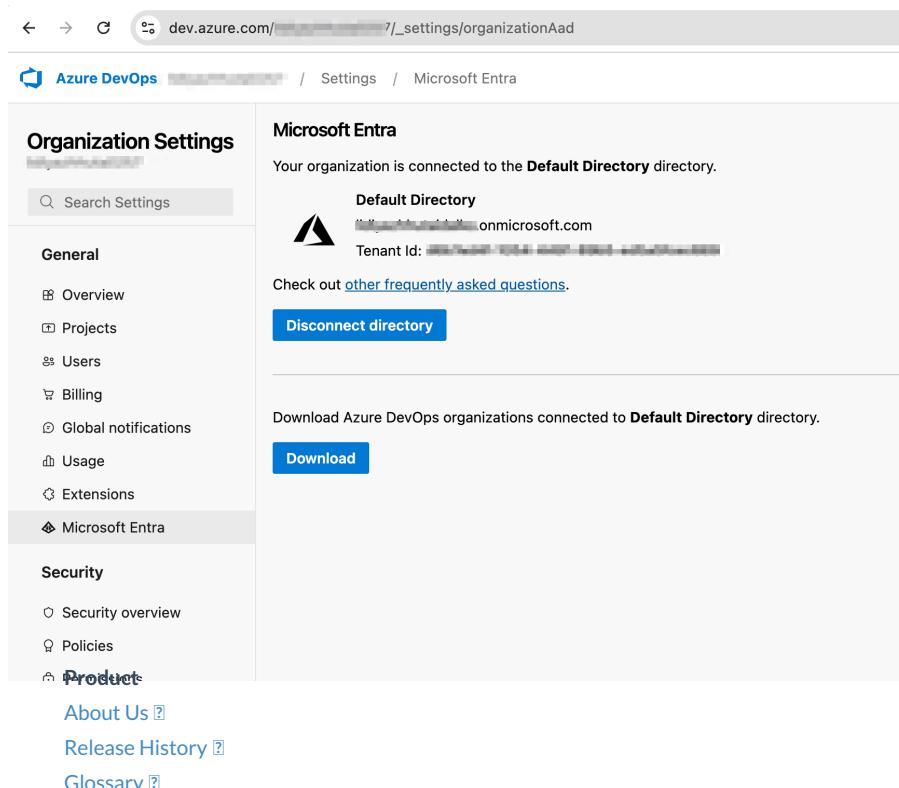
Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list shows all the permissions the application needs. [Learn more about permissions and consent](#)

<a href="#">+</a> Add a permission	<input checked="" type="checkbox"/> Grant admin consent for Default Directory		
<hr/>			
API / Permissions name	Type	Description	Admin consent
vso.project_manage	Delegated	Project and team (read, write and manage)	No
vso.work	Delegated	Work items (read)	No

## Generate Client Secret

**Note:** Check the [How to Generate Client Secret](#) for more details.

**Note:** Make sure your organization is connected to the default directory.



The screenshot shows the Azure DevOps Organization Settings page. On the left, there is a sidebar with 'Organization Settings' and a list of sections: General, Overview, Projects, Users, Billing, Global notifications, Usage, Extensions, Microsoft Entra (which is expanded), Security, Security overview, Policies, and Product. At the bottom of the sidebar are links for 'About Us', 'Release History', and 'Glossary'. The main content area is titled 'Microsoft Entra' and displays the message 'Your organization is connected to the **Default Directory** directory.' It shows a connection icon, the directory name 'Default Directory', the tenant name '████████████████ onmicrosoft.com', and the tenant ID '████████████████-████████████████-████████████████-████████████████'. Below this, there is a link to 'other frequently asked questions' and a 'Disconnect directory' button. Further down, there is a section for 'Download Azure DevOps organizations connected to **Default Directory** directory.' with a 'Download' button.

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