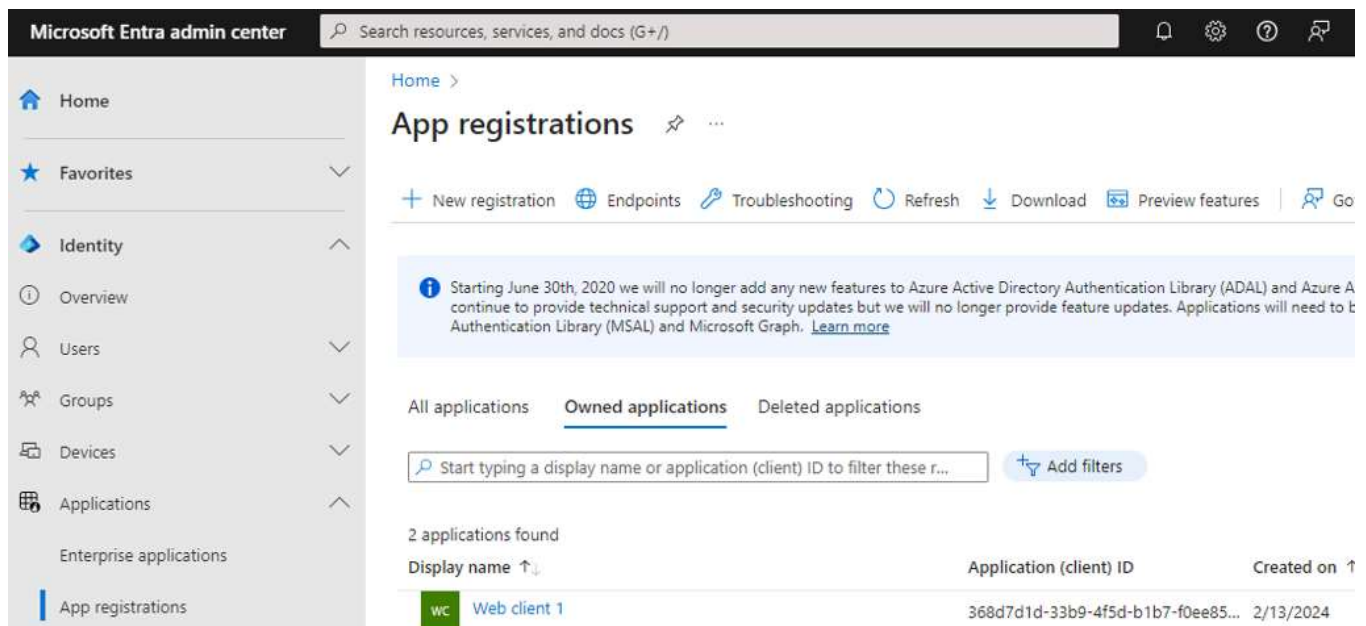


Microsoft Teams Skill

This skill allows the authenticated user to perform simple tasks on his/her Microsoft Teams account directly from the VertexGraph chat prompt.

API Permissions Setup:

1. Go to <https://entra.microsoft.com>
2. Login with your Microsoft account credentials.
3. Go to **Applications > App registrations**.



The screenshot shows the Microsoft Entra admin center interface. The left sidebar contains navigation links: Home, Favorites, Identity (expanded), Overview, Users, Groups, Devices, and Applications. The main content area is titled 'App registrations' and includes a search bar, a '+ New registration' button, and links for Endpoints, Troubleshooting, Refresh, Download, and Preview features. A blue information banner states: 'Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Library (ADAL) and Azure A continue to provide technical support and security updates but we will no longer provide feature updates. Applications will need to t Authentication Library (MSAL) and Microsoft Graph. [Learn more](#)'. Below this, there are tabs for 'All applications', 'Owned applications' (selected), and 'Deleted applications'. A search bar prompts 'Start typing a display name or application (client) ID to filter these r...'. A table lists 2 applications found:

Display name	Application (client) ID	Created on
Web client 1	368d7d1d-33b9-4f5d-b1b7-f0ee85...	2/13/2024

4. Select **New registrations**. Fill out the desired name for the registration and then choose second or third option in **Supported account types**. You can leave Redirect URI empty.

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 (VertexGraph 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.

Select a platform

▼

e.g. <https://example.com/auth>

5. Select **Register** to create a new app registration.
6. After that is done, navigate back to App registrations in step 3 and click on your newly create application.
7. Now navigate to **API Permissions** and click **Add a permission**

[Refresh](#) | [Got feedback?](#)

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Starting November 9th, 2020 end users will no longer be able to grant consent to newly registered multitenant apps without verified publishers. [Add MPN ID to verify publisher](#)

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 VertexGraph

API / Permissions name	Type	Description	Admin cons
<div> <div>></div> <div>Microsoft Graph (12)</div> <div><</div> </div>			

To view and manage consented permissions for individual apps, as well as your tenant's consent settings, try [Enterprise applications](#).

8. Select **Microsoft Graph** > **Delegated permissions** and then select all necessary permissions in the application (*offline_access*, *User.Read*, *User.ReadBasic.All*, *Chat.ReadWrite*, *ChatMember.ReadWrite*, *Group.ReadWrite.All*, *TeamMember.ReadWrite.All*, *Team.ReadBasic.All*). Then click **Add permissions** to complete.

(*) Note: Some permissions need admin consent so unless you are granted permission by the admin or the account is the admin itself, some permissions will not work.

Request API permissions



[← 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](#)

Start typing a permission to filter these results



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](#)



Permission	Admin consent required
> OpenId permissions (1)	
> AccessReview	
> Acronym	
> AdministrativeUnit	
> AgreementAcceptance	
> Agreement	
> Analytics	
> APIConnectors	
> AppCatalog	
> AppCertTrustConfiguration	
> Application-RemoteDesktopConfig	
> Application	
> AppRoleAssignment	

> AttackSimulation

Add permissions

Discard

9. After adding the permissions, navigate to **Authentication** and click **Add a platform**.

Search

«

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Depending on the platform or device this application is targeting, additional configuration may be required such as redirect URIs, specific authentication settings, or fields specific to the platform.

+ Add a platform

Supported account types

Who can use this application or access this API?

Accounts in any organizational directory (Any Microsoft Entra ID tenant - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)

All users with a work or school, or personal Microsoft account can use your application or API. This includes Office 365 subscribers.

To change the supported accounts for an existing registration, use the manifest editor. Take care, as certain properties may cause errors for personal accounts. [Learn more about these restrictions.](#)

Starting November 9th, 2020 end users will no longer be able to grant consent to newly registered multitenant apps without verified publishers. [Add MPN ID to verify publisher](#)

Advanced settings

Live SDK support ⓘ

Allow direct inteoration with the Microsoft account service (login.live.com).

Yes No


10. In **Configure platforms**, select **Web**.

Configure platforms




Web applications

**Web**
Build, host, and deploy a web server application. .NET, Java, Python

**Single-page application**
Configure browser client applications and progressive web applications. Javascript.

Mobile and desktop applications

**iOS / macOS**
Objective-C, Swift, Xamarin

**Android**
Java, Kotlin, Xamarin

**Mobile and desktop applications**
Windows, UWP, Console, IoT & Limited-entry Devices, Classic iOS + Android

11. Add <https://api.vertexgraph.com/adminapi/assets/oauthcode> in Redirect URIs in Configure Web. Then select Configure to create the platform.

Configure Web



[← All platforms](#)

[Quickstart](#)

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* Redirect URIs

The URIs we will accept as destinations when returning authentication responses (tokens) after successfully authenticating or signing out users. The redirect URI you send in the request to the login server should match one listed here. Also referred to as reply URLs. [Learn more about Redirect URIs and their restrictions](#)

`https://api.vertexgraph.com/adminapi/assets/oauthcode`



Front-channel logout URL

This is where we send a request to have the application clear the user's session data. This is required for single sign-out to work correctly.

e.g. `https://example.com/logout`

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)

12. Then a window for Web platform will be created. Add the following URL's below the first one.

<https://api.vertexgraph.com/adminapi/assets/oauthcode>

<https://login.microsoftonline.com/common/oauth2/v2.0/token>

<http://localhost/msteams/auth> (only apply to local setup, public url is different)

<http://localhost/msteams/token> (only apply to local setup, public url is different)

Platform configurations

Depending on the platform or device this application is targeting, additional configuration may be required such as redirect URIs, specific authentication settings, or fields specific to the platform.

+ Add a platform

Web

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Redirect URIs

The URIs we will accept as destinations when returning authentication responses (tokens) after successfully authenticating or signing out users. The redirect URI you send in the request to the login server should match one listed here. Also referred to as reply URLs. [Learn more about Redirect URIs and their restrictions](#)

https://api.vertexgraph.com/adminapi/assets/oauthcode	
https://api.vertexgraph.com	
http://localhost/msteams/auth	
http://localhost/msteams/token	
<input type="text" value="https://login.microsoftonline.com/common/oauth2/v2.0/token"/>	

Add URI

13. Once that is done, navigate **Overview** and click on **Add a certificate or secret** on the right corner.

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Delete Endpoints Preview features

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

Essentials

Display name

Application (client) ID

Object ID

Directory (tenant) ID

Supported account types : [Add Microsoft account users](#)

Client credentials

Redirect URIs

Application ID URI

Managed application in L

[Add a certificate or secret](#)

[Add a Redirect URI](#)

[Add an Application ID URI](#)

[random](#)

Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Library (ADAL) and Azure Active Directory Graph. We will continue to provide technical support and security updates but we will no longer provide new features. [Learn more](#)

Starting November 9th, 2020 end users will no longer be able to grant consent to newly registered multitenant apps without verified publishers. [Add MPN ID to verify publisher](#)

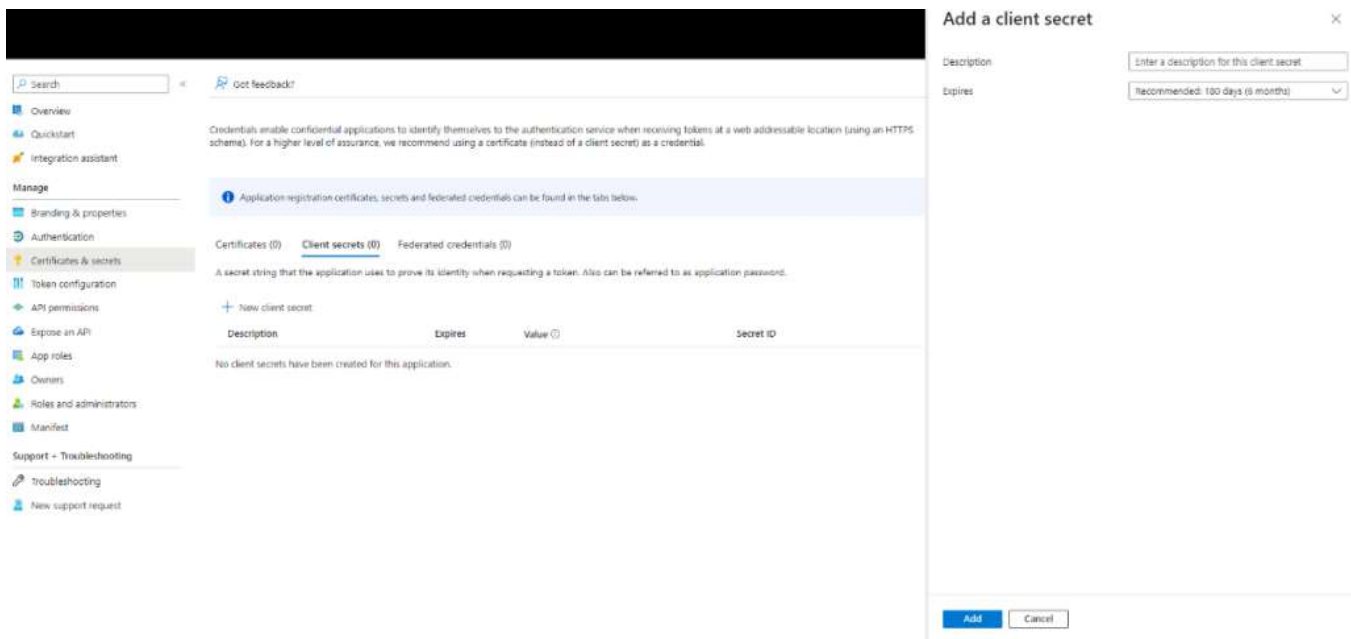
Get Started

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, integrate with your users and customers. [Learn more](#)

14. Click on **New client secret**, add a description to the client secret and then click **Add**.



15. Scroll down and you will see your App Credentials, you want to copy your **Client ID** (or Application ID) and **Client Secret** (Client Secret Value)

(*) Note: Multiple applications can use the same app registrations, what matters is that permissions are added and redirect URLs and secrets are known

Test Prompts:

- Get chats for the past week.
- Create a chat with example@example.com in my MS teams.
- Update my most recent chat's topic to "chat with friend".
- Add testing1@vertexgraph.com to my chats within last 2 days in my MS teams.
- Remove example@example.com from my chats within last 2 days in my MS teams.
- Get chat messages for the past week from my MS teams.
- Send a message with content "test message from ai chat" to chats within past week from my MS teams.
- Update chat messages to "new update message" from my MS teams in the chat with topic containing 'test1'.
- Remove chat messages from my MS teams with topic containing "chat".
- Get teams with example@example.com.
- Create a team with example@example.com.
- Update most recently created team display name to "update team display name".

- Remove most recently created team.
- Get team members who are the owner of the teams.
- Add example@example.com to all teams.
- Remove testing1@vertexgraph.com from most recent team.