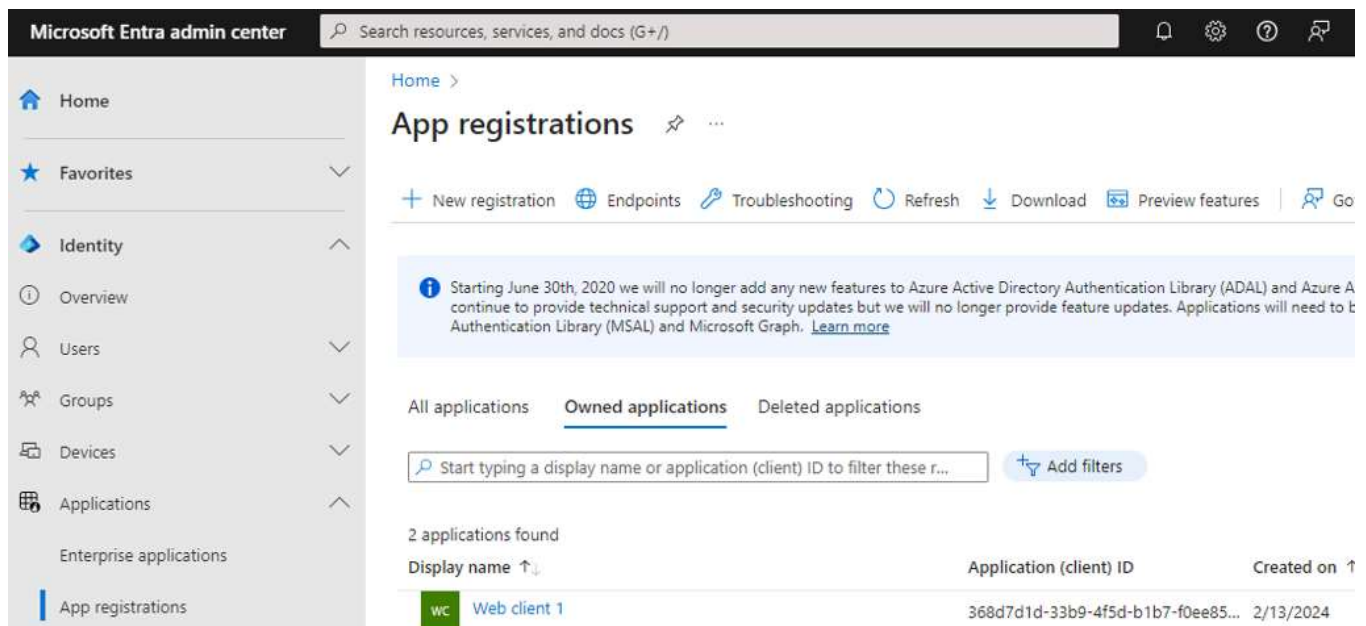# Microsoft Teams Skill

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.**



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**

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

**Microsoft Graph**
https://graph.microsoft.com/  Docs ⬈

What type of permissions does your application require?

| Delegated permissions | Application permissions |
|---|---|
| Your application needs to access the API as the signed-in user. | 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**.



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

## Configure platforms ✕

Web applications

| Web | Single-page application |
|---|---|
| Build, host, and deploy a web server application. .NET, Java, Python | Configure browser client applications and progressive web applications. Javascript. |

Mobile and desktop applications

| iOS / macOS | Android |
|---|---|
| Objective-C, Swift, Xamarin | 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   Docs ⬈

**\* 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
Quickstart   Docs🗗   🗑

#### 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 | 🗑 |
| 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.

14. Click on **New client secret**, add a description to the client secret and then click **Add.**
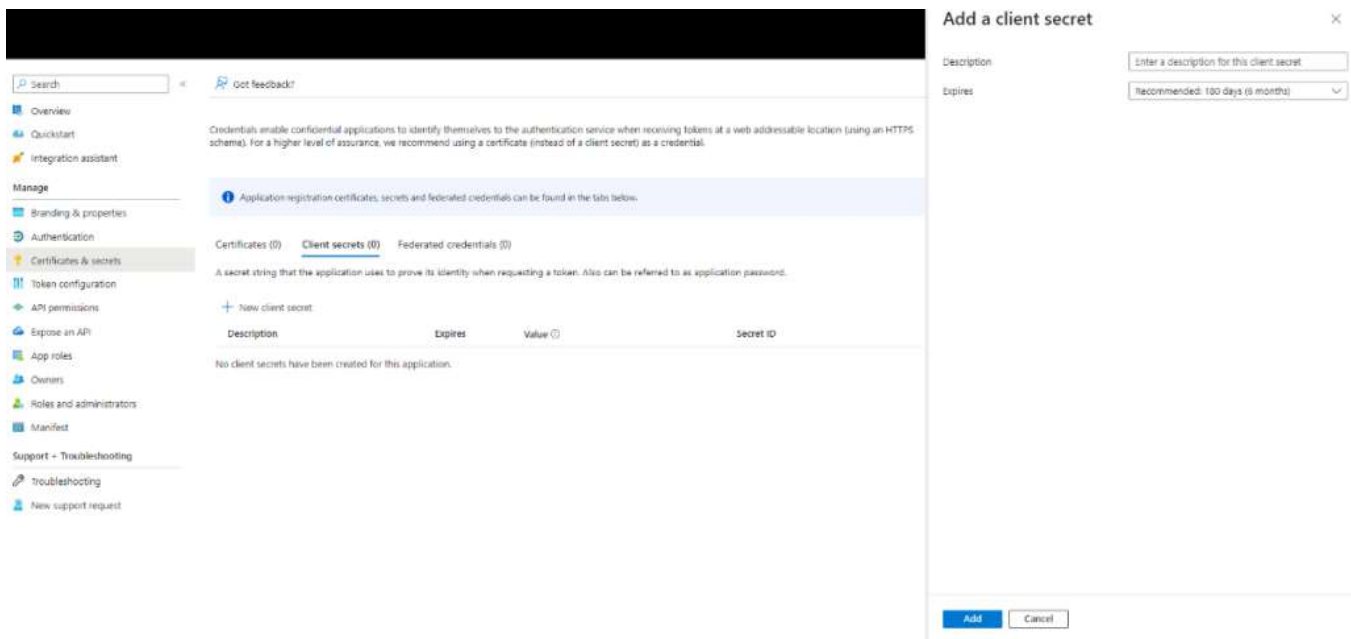
15. Scroll down and you will see your App Credentials, you want to copy your **Client ID** (or Application ID) and **Client Secret** (Client Secret Value)

(*) 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](mailto:example@example.com) to all teams.
- Remove [testing1@vertexgraph.com](mailto:testing1@vertexgraph.com) from most recent team.