Getting started with Microsoft Graph Presence API and Adaptive Card Extensions

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Introduction to Microsoft Graph Presence API

Microsoft Graph Presence API (beta for this demo) contains information about a user's presence, including their **availability and activity** with capabilities like:

- ✓ Get user’s presence information
- ✓ Set user’s presence information
- ✓ Clear user’s presence information
- ✓ Set user’s status message
- ✓ Track user’s presence changes information
- ✓ And more...

Available API methods

Method	Description
Get presence	Get a user's presence information.
Get presence of multiple users	Get the presence information for multiple users.
Set presence	Set the availability and activity status in a presence **session of an application** for a user.
Clear presence	Clear a presence **session of an application** for a user.
Set user preferred presence	Set the preferred availability and activity status for a user.
Clear user preferred presence	Clear the preferred availability and activity status for a user.
Set user status message	Set a presence status message for a user.

Presence sessions

In the previous table, some methods from the API mention the notion of **presence session** in order to be used properly.

Multiple presence sessions can be active **simultaneously** for the following reasons:

- Usage of multiple Teams clients (web, desktop and mobile)
- Applications like ACE, Web Parts or any LOB that interacts with the API

Each session may **timeout and expire**, so the application needs to call the API before the expiration in order to keep the session alive.

Presence sessions with SPFx

When developing an ACE or a Web Part with SPFx (v1.16.1), we use the **MSGraphClientV3** that simplifies connecting to Microsoft Graph API.

Behind the scene, the MSGraphClientV3 implements Azure AD OAuth flow through the **SharePoint Online Client Extensibility service principal** to obtain a valid access token like with the AadHttpClient.

In the context of Microsoft Graph Presence API, the **sessionId** parameter required to call some API methods is nothing other than the service principal ID aka **Application (client) ID** in Azure AD.

Example: setPresence method

Request:

*POST /users/**{userId}**/presence/setPresence*

Body:

{

*"sessionId": "**{servicePrincipalId}**",*

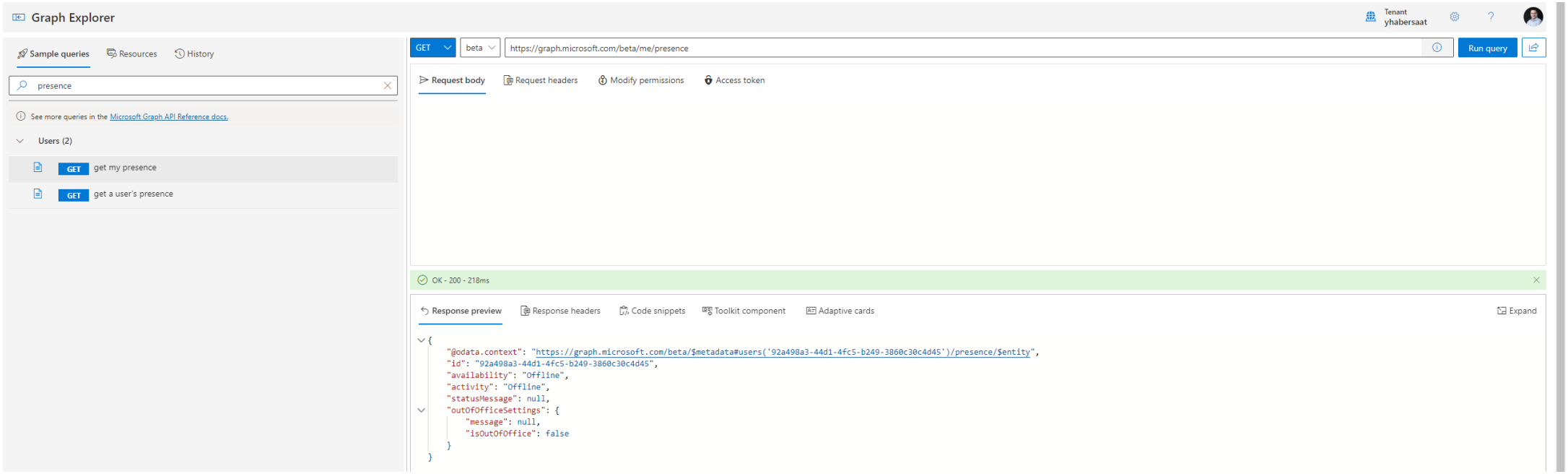
*"availability": "Busy", **(availability and activity parameters have fixed list of combinations)***

"activity": "InACall",

*"expirationDuration": "PT2H30M" **(ISO 8601 format, default is 5 minutes – PT5M)***

}

Graph Explorer



Demo time!