Guide: Setting Up App Registration and Permissions in Azure Active Directory for Microsoft Edge Extensions

Step 1: Register an Application in Azure AD

1.1. Log in to Azure Portal

- Navigate to the Azure Portal.
- Sign in with your Azure account credentials.

1.2. Access Azure Active Directory

- Click on **"Azure Active Directory"** from the left-hand navigation menu.

1.3. Navigate to App Registrations

- Click on **"App registrations"** in the Azure Active Directory section.

1.4. Register a New Application

- Click on **"New registration"**.

1.5. Configure Application Details

- **Name**: Enter a name for your application (e.g., "M365 Extension App").
- **Supported account types**:
  - **Accounts in any organizational directory and personal Microsoft accounts**: To support both organizational and personal accounts.
  - **Accounts in this organizational directory only**: To restrict access to your organization.
- **Redirect URI**:
  - Select **"Web"** from the dropdown.
  - Enter the redirect URI (we'll configure this in detail in the next step).

Example Redirect URI:

https://<extension-id>.chromiumapp.org/

Note: The <extension-id> will be known after you load your extension in the browser. Use a placeholder for now and update it later.

1.6. Register the Application

- Click **"Register"** to create the application.

Step 2: Configure Authentication

2.1. Access Authentication Settings

- In your app registration, click on **"Authentication"** in the left-hand menu.

2.2. Configure Redirect URIs

a. Determine the Extension Redirect URI

- For Edge browser extensions, the redirect URI follows this format:

  https://<extension-id>.chromiumapp.org/

- To find your **<extension-id>**:
  - Load your unpacked extension in Edge:
    - Navigate to edge://extensions/.
    - Enable **Developer mode**.
    - Click **"Load unpacked"** and select your extension's directory.
  - After loading, find the extension ID under the extension's details.

b. Add Redirect URI

- Under **"Redirect URIs"**, ensure the URI matches the one generated by your extension.

Example:

https://ilhmjfkemjbdkaheboigeig.chromiumapp.org/

2.3. Configure Implicit Grant and Hybrid Flows

- Under **"Implicit grant and hybrid flows"**, check:
  - **Access tokens (used for implicit flows)**
- This allows your extension to receive access tokens directly.

2.4. Save Authentication Configuration

- Click **"Save"** at the top to apply the changes.

Step 3: Specify API Permissions

Your application needs permissions to access Microsoft 365 services via the Microsoft Graph API.

3.1. Navigate to API Permissions

- Click on **"API permissions"** in the left-hand menu of your app registration.

3.2. Add Microsoft Graph Permissions

- Click **"Add a permission"**.
- Select **"Microsoft Graph"**.

3.3. Choose Delegated Permissions

- Click **"Delegated permissions"**.

3.4. Select Required Permissions

Add the permissions needed for your extension's functionality.

Basic Permissions

- **User.Read**: Sign in and read the user's profile.
- **Profile:** View users' basic profile
- **Openid:** Sign users in
- **Offline_access:** Maintain access to data you have given it access to

Example Steps:

1. In the **Select permissions** search box, type **"User.Read"**.
2. Check the box next to **"User.Read"**.
3. Repeat for other permissions as needed.
4. Click **"Add permissions"**.

3.5. Review and Confirm Permissions

- Ensure all necessary permissions are listed under **"Configured permissions"**.

3.6. Understand Permission Scopes

- **Least Privilege Principle**: Request only the permissions absolutely necessary.
- **Consent Requirements**:
  - Some permissions require admin consent.
  - Users may be prompted to consent during authentication.

3.7. Add Azure Service Management Permissions

Select Azure Servce Management

Delegated permissions

Select or search for user_impersonation

Step 4: Grant Admin Consent

4.1. Grant Consent

- In **"API permissions"**, click on **"Grant admin consent for [Your Organization]"**.
- Confirm the action when prompted.

4.2. Confirm Consent

- The **"Status"** of the permissions should update to **"Granted for [Your Organization]"**.