The process of retrieving a file from SharePoint using Microsoft Graph API. Here's a step-by-step guide:

**Step 1: Register an Application in Azure AD**

1. **Go to the Azure portal:**

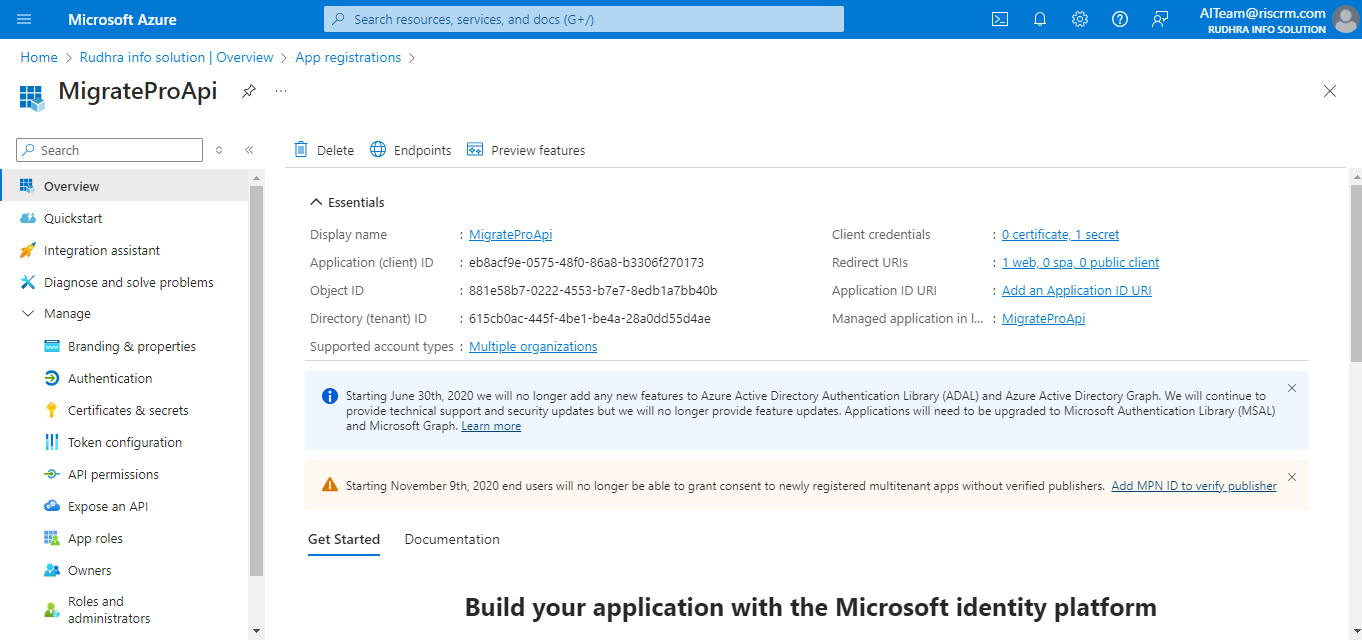
* Navigate to Manage Microsoft Entra ID > App registrations > New registration.
* Provide a name for your application and register it.

1. **Create a Client Secret**:

* In the registered app, go to Certificates & secrets > New client secret.
* Note down the client secret value.

1. **Get Client ID and Tenant ID:**

* Client ID is available on the app's Overview page.
* Tenant ID can be found under Azure Active Directory > Properties.

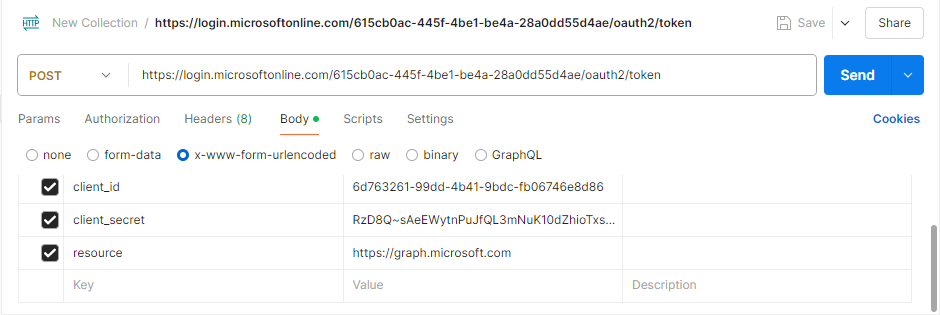
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**Step 2: Fetch the Access Token**

**Make a POST request to get the access token. Use the following endpoint:**

**POST** https://login.microsoftonline.com/{tenant\_id}/oauth2/v2.0/token

* Replace {tenant\_id} with your actual tenant ID.
* Body (client\_id=YOUR\_CLIENT\_ID & client\_secret=YOUR\_CLIENT\_SECRET & resource =https://graph.microsoft.com)

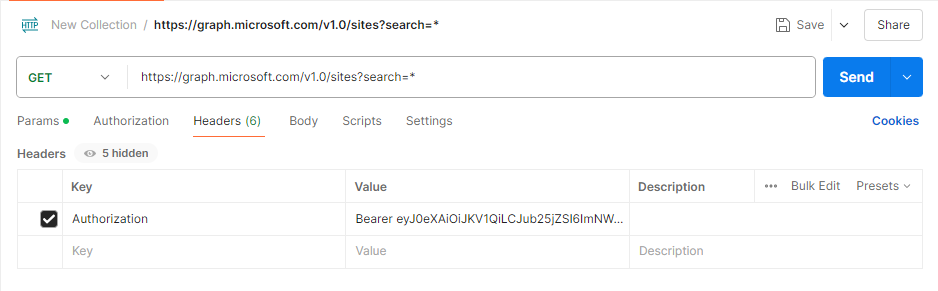
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**Step 3: Retrieve the SharePoint Site Information**

**Use the access token to make a GET request to fetch the site information.**

**GET** [https://graph.microsoft.com/v1.0/sites?search=\*](https://graph.microsoft.com/v1.0/sites?search=*)

* **HEADER** Authorization: Bearer YOUR\_ACCESS\_TOKEN



**EXAMPLE Output:** { "value": [{

"createdDateTime": "2024-06-24T13:08:11Z",

"description": "extradoc",

"id": "rudhrainfosol.sharepoint.com,c4fec375-7d15-4ac1-a45c-6bcbc5c1a75c,e96af3b0-42bd-4e4a-a00e-c63b4bbecf37",

"lastModifiedDateTime": "2024-06-24T13:08:18Z",

"name": "extradoc",

"webUrl": "https://rudhrainfosol.sharepoint.com/sites/extradoc",

"displayName": "extradoc",

"root": {},

"siteCollection": {

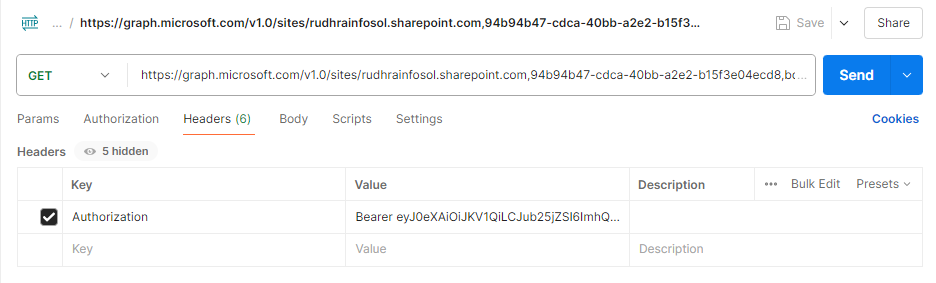
"hostname": "rudhrainfosol.sharepoint.com"}}]}

**Step 4: Retrieve the File from SharePoint**

**Once you have the id of the site, use it to construct the URL for the file you need to fetch.**

**GET** https://graph.microsoft.com/v1.0/sites/{hostname},{siteId},{webId}/drive/root:/DocuSign.pdf

* Replace {hostname}, {siteId}, and {webId} with the corresponding parts from the id field.
* HEADER Authorization: Bearer YOUR\_ACCESS\_TOKEN



* Response will be in a Link format to download the file.

**Conclusion**

By following these steps, you can efficiently retrieve files from SharePoint using the Microsoft Graph API. Ensure you handle the access token securely and manage your API permissions appropriately in Azure AD.