[OData Project Online] OData connector failed to connect to Project Online site

Last updated by | Jackie Huang | Jan 4, 2022 at 12:24 AM PST

Issue

Customer want to connect Project Online to export project online data, when customer try to connect with OData connector, the connection failed with "Access denied. You do not have permission to perform this action or access this resource."

Resolution

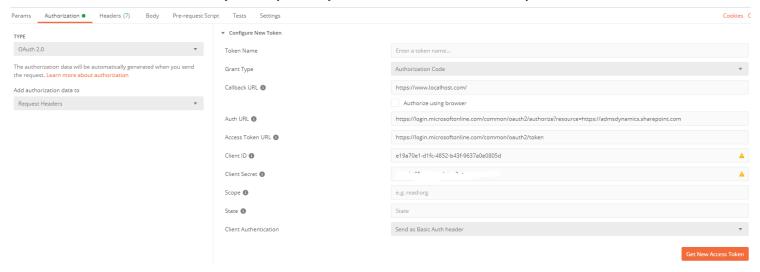OData (including REST/SharePointOnlineList) Connector doesn't support Project Online.

Reason

Project Online require AAD user-based OAuth, need user to login in with user's username and password. ADF today only support AAD ServicePrincipalKey and ServicePrincipalCert, both are app-only Auth. ADF doesn't have plan to support user-based OAuth.

Workaround

User can get the access token with other tools (like postman) then use the access token in OData Connector.

1. Use Postman to get access token
   - Navigate to Authorization tab
     - Type "OAuth 2.0" , Add authorization data to "Request Header"
     - Fill Information for getting new token
       - Grant type: Authorization code
       - Call back URL added to azure registered app in Authentication/Redirect URIs :"https://www.localhost.com ↗ "
       - Auth URL: https://login.microsoftonline.com/common/oauth2/authorize?resource=https://admsdynamics.sharepoint.com ↗ (replace admsdynamics with your tenant name)
       - Access token URL: https://login.microsoftonline.com/common/oauth2/token ↗
       - Client ID: AAD Service principal ID.
       - Client Secret: Service Principal Secret.
       - Client Authentication: send as basic auth header.
     - You will asked to login with your username and password, please fill in the login
     - You will get the access token, please copy it somewhere for next step.

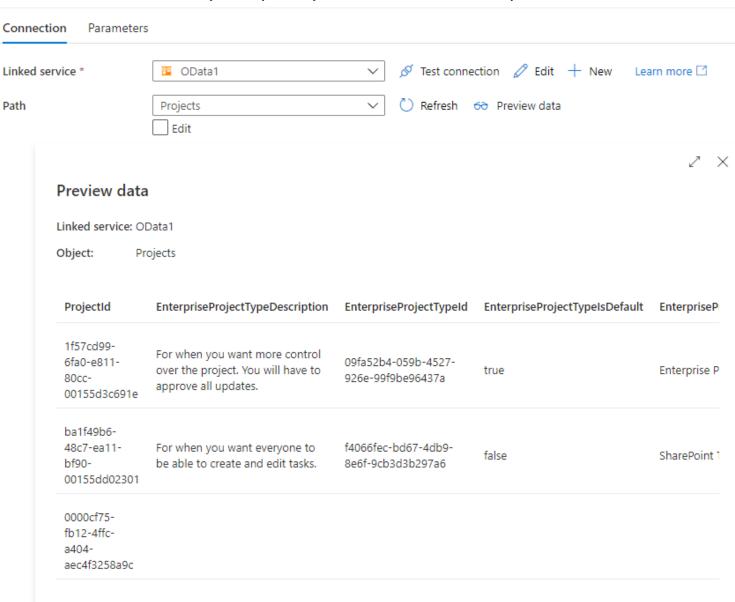Params   Authorization ●   Headers (7)   Body   Pre-request Script   Tests   Settings   Cookies C

TYPE

| OAuth 2.0 | ▼ |

The authorization data will be automatically generated when you send the request. Learn more about authorization

Add authorization data to

| Request Headers | ▼ |

▼ Configure New Token

Token Name		Enter a token name...
Grant Type		Authorization Code ▼
Callback URL ⓘ		https://www.localhost.com/
	☐ Authorize using browser
Auth URL ⓘ		https://login.microsoftonline.com/common/oauth2/authorize?resource=https://admsdynamics.sharepoint.com
Access Token URL ⓘ		https://login.microsoftonline.com/common/oauth2/token
Client ID ⓘ		e19a70e1-d1fc-4852-b43f-9637a0e0805d ⚠
Client Secret ⓘ		⚠
Scope ⓘ		e.g. read:org
State ⓘ		State
Client Authentication		Send as Basic Auth header ▼

[Get New Access Token]

2. Create OData Linked Service

- Service URL: https://admsdynamics.sharepoint.com/sites/pwa/_api/Projectdata ↗ (replace admsdynamics with your tenant name)
- Authentication type: Anonymous
- Auth headers
  - Authorization: Bearer <Access token copy from Step 1>
- Test Linked service

Connect via integration runtime * ⓘ

| AutoResolveIntegrationRuntime | ∨ |

Service URL *

| https://admsdynamics.sharepoint.com/sites/pwa/_api/Projectdata |

Authentication type *

| Anonymous | ∨ |

Auth headers ⓘ

+ New | 🗑 Delete

| ☐ | Property name | | Value |
| ☐ | Authorization ∨ | | •••••••••• |

3. Create OData Dataset

- Create the dataset with linked service created in step2.
- Preview data.

Connection   Parameters

Linked service *   [OData1 ⌄]   🖉 Test connection   ✏ Edit   ＋ New   Learn more ⧉

Path   [Projects ⌄]   ↻ Refresh   👓 Preview data

                      ☐ Edit

                                                                    ⤢ ✕

Preview data

Linked service: OData1

Object: Projects

ProjectId	EnterpriseProjectTypeDescription	EnterpriseProjectTypeId	EnterpriseProjectTypeIsDefault	EnterpriseP
1f57cd99-6fa0-e811-80cc-00155d3c691e	For when you want more control over the project. You will have to approve all updates.	09fa52b4-059b-4527-926e-99f9be96437a	true	Enterprise P
ba1f49b6-48c7-ea11-bf90-00155dd02301	For when you want everyone to be able to create and edit tasks.	f4066fec-bd67-4db9-8e6f-9cb3d3b297a6	false	SharePoint 1
0000cf75-fb12-4ffc-a404-aec4f3258a9c				

4. Notes
   - The access token by default expire in 1 hour, please refresh the token when it's expired.