[OData SPO]SharePoint Online List with OData Connector

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

Symptoms

Customer want to use Odata connector to extract SharePoint Online List, but the authentication is failed no matter which authentication to use

Resolution

Public doc is available:

https://docs.microsoft.com/en-us/azure/data-factory/connector-sharepoint-online-list

SharePoint online only supports Oauth authentication, but Oauth with user's personnel credential is not support in ADF v2 today, following the steps below to address this issue:

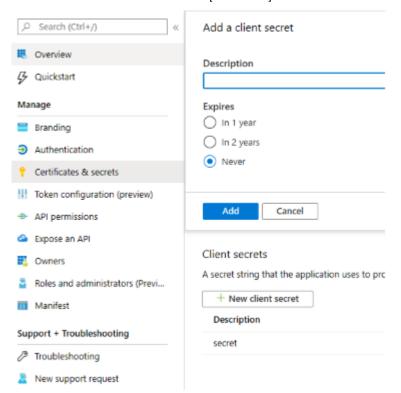
Workaround 1: [OData] How to connect to SharePoint List Using OData Connector

With this workaround sometimes customer complain they are not able to create self-signed cert or they are not able to find the tenant admin to grant permission for them.

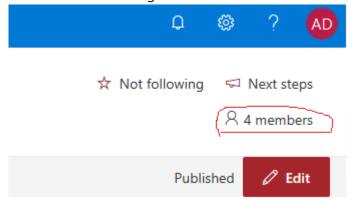
Then go to:

Workaround 2:

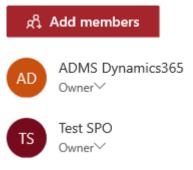
- 1. Register SharePoint Application and Grant permission
 - 1. Register AAD Application (with user's personnel account)
 - 1. Open azure portal aad app registration page:
 https://portal.azure.com/#blade/Microsoft AAD IAM/ActiveDirectoryMenuBlade/RegisteredApps
 - 2. New registration, enter your app name
 - 3. Go to "Certificates & secrets", create new client secret, you can set the expire to 1Y/2Y/Never



- 2. Grant sharepoint site permission to your registered App (need site owner permission)
 - 1. How to find the site owner
 - 1. Go to site home page(eg. https://admsdynamics.sharepoint.com/sites/site2 □), and click the "X members" in the right corner



2. Check who is the owner



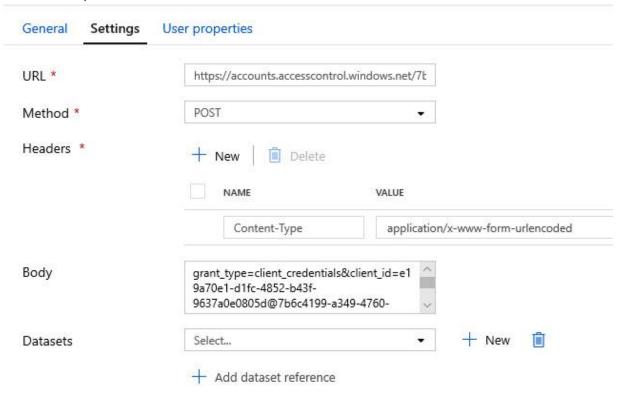
- 2. Open sharepoint site link: https://[Tenant-Name].sharepoint.com/sites/[Site-Name]/_layouts/15/appinv.aspx (replace tenant/site name)
- 3. Search the Appld you just registered in Step 1a and fill the empty fields and click **"Create"** App Domain: <u>localhost.com</u> ☑

Redirect URL: https://www.localhost.com https://www.localhost.com Permission Request XML:

<pre><apppermissionrequests <="" allowapponlypolicy="tru</th><th>Right=" read"="" th=""></apppermissionrequests></pre>	
App Id:	
e19a70e1-d1fc-4852-b43f-9€ Lookup	
Title:	
spodemo	
App Domain:	
localhost.com	
Example: "www.contoso.com"	
Redirect URL:	
https://www.localhost.com	
Example: "https://www.contoso.com/default.aspx"	
Permission Request XML:	
AppPermissionRequests AllowAppOnlyPolicy="true">	

- 4. Click "Trust It" for this app
- 2. Create ADF Pipeline
 - 1. Create Web Activity to get the access token
 - URL: https://accounts.accesscontrol.windows.net/[Tenant-ID]/tokens/OAuth/2 12
 - Method: POST
 - Headers:
 - Content-Type: application/x-www-form-urlencoded
 - Body: grant_type=client_credentials&client_id=[Client-ID]@[Tenant-ID]&client_secret= [Clinet-Secret]&resource=00000003-0000-0ff1-ce00-000000000000/[Tenant-ID]&client_secret=

Name].sharepoint.com@[Tenant-ID]



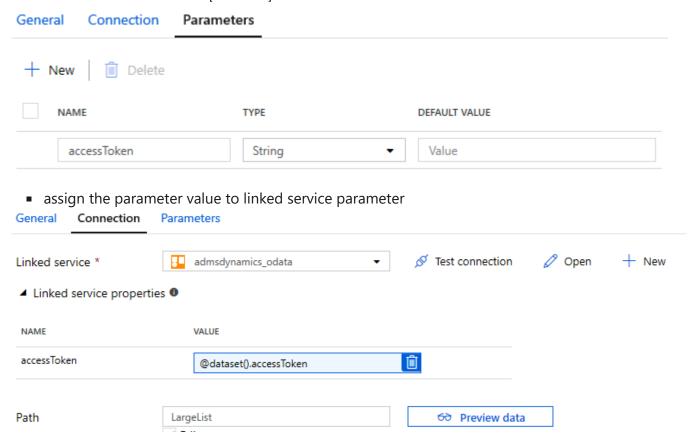
2. Create Odata Linked Service

- 1. Create new Dataset, select "OData" as data store type
- 2. In the Connection tab, create a new linked service
- 3. Check the "Specify dynamic contents in JSON format" and manually input the json content

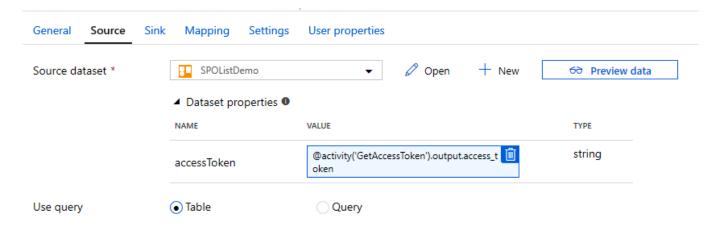
```
"name": "odata",
    "type": "Microsoft.DataFactory/factories/linkedservices",
    "properties": {
        "type": "OData",
        "annotations": [],
        "parameters": {
            "accessToken": {
                 "type": "String"
        "typeProperties": {
            "url": "https://[Tenant-Name].sharepoint.com/sites/[Site-Name]/_vti_bin/listdata.svc/
            "authenticationType": "Anonymous",
            "additionalHeaders": {
                "Authorization": "Bearer @{linkedService().accessToken}"
        }
    }
}
```

3. In the dataset tab

add a new parameter "accessToken"



- Edit and set the Path to the list name you want to extract
- 4. Assign the web activity output value to dataset parameter



Detail

How good have you found this content?

