

Last updated by | Veena Pachauri | Mar 8, 2023 at 11:10 PM PST

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Preview data for all sharepoint lists shows no data

Object:



No preview data to show

During interactive query service model, when clicking 'preview data' this operation should be dispatched to SHIR diawp and diawp should initiated the connection to SPO.

Therefore, please collect the fiddler trace from local SHIR by following [How to capture http requests for Self-hosted IR through Fiddler - Overview \(visualstudio.com\)](#).

Remote access from intranet ⓘ

Status: Disabled


Change

HTTP Proxy ⓘ

Current Proxy: No proxy

Change

6. Check Use custom proxy, type IP address and the port showed in step 2, if fiddler installed on the same machine as SHIR, we loopback I. Leave user name and password blank.

 Set HTTP Proxy ✕

Integration Runtime (Self-hosted) node uses HTTP proxy to access cloud services. It connects to the proxy using the following settings:

☐ Do not use proxy (Direct access)

☐ Use system proxy (No proxy)

☒ Use custom proxy

Address* Port*

User Name

Password

Analysis

According to the [code](#) , it will leverage the site url and `/_vti_bin/listdata.svc` to query the sharepoint online list.

```
private const string SvcUrlPattern = "{0}/_vti_bin/listdata.svc";  
var svcUrl = string.Format(CultureInfo.InvariantCulture, SvcUrlPattern, siteUrl);
```

The fiddler trace will tell us what the exact issue is:

Request Headers

GET /sites/operationsbi/_vti_bin/listdata.svc/... 'Stop=10 HTTP/1.1

Client
User-Agent: azure-data-factory/2.0

Security
Authorization: Bearer eyJ0eXAiOiJKV1QiLC0iOiJhbnR1c2UxLWYmpBWVhZ...
Host: ...

Transport
Host: ...

Transformer Headers TextView SyntaxView ImageView HexView WebView Auth Caching Cookies Raw JSON XML

feed [xml:base=https://...sharepoint.com/sites/operationsbi/_vti_bin/listdata.svc/ xmlns:d=http://schemas.microsoft.com/ado/2007/08/dataservices]
 title [type=text]
 id
 https://...sharepoint.com/sites/operationsbi/_vti_bin/listdata.svc/
 updated
 2022-11-10T19:11:29Z
 author
 <name xmlns="http://www.w3.org/2005/Atom">...</name>
 <link rel="self" title="..." href="..." xmlns="http://www.w3.org/2005/Atom" />

You can see empty items returned which expected 10 top items.

Good one testing from lab(directly query the sharepoint online list with fiddler trace, please do the same from customer side):

Request Headers

[Ra

GET /sites/site2/_vti_bin/listdata.svc/Testlist?Stop=10 HTTP/1.1

Cache

Cache-Control: max-age=0

Client

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9

Accept-Encoding: gzip, deflate, br

Accept-Language: en-US,en;q=0.9

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.0.0 Safari/537.36

Cookies

Cookie

FedAuth

77u/PD94bWwgdmVyc2lvbj0iMS4=VjEzLDBoLmZ8bWVtYmVyc2hpcHwxMDAzYmZmZDlmZmYyZjc2QGxpdi

MSFPC

GUID=7ecdd...c14e15136b7

HASH=

LU=16...67

LV=20...

V=4

rtFa

Transformer Headers TextView SyntaxView ImageView HexView WebView Auth Caching Cookies Raw JSON

```

feed [ xml:base=https://sharepoint.com/sites/site2/_vti_bin/listdata.svc/ xmlns:d=http://schemas.microsoft.com/ado/2007/08/data
  title [ type=text ]
    Testlist
  id
    https://sharepoint.com/sites/site2/_vti_bin/listdata.svc/Testlist
  updated
    2022-11-22T03:05:31Z
  <link rel="self" title="Testlist" href="Testlist" xmlns="http://www.w3.org/2005/Atom" />
  entry [ m:etag=W/"4" ]
  entry [ m:etag=W/"4" ]
  entry [ m:etag=W/"3" ]
  entry [ m:etag=W/"1" ]
  entry [ m:etag=W/"1" ]

```

By comparing the good and bad one, we can see the authentication is different. The issue may relate to oauth2 AAD authentication from SPN.

Solution

[Please make sure SPN with permission needed](#)

Note: Even service principal without any permission, the SPO still return 200 instead of 401 or 403 which may mislead the troubleshooting direction. If the query to /_vti_bin/listdata.svc from the SPN could not get the 10 items, please make sure the SPN with "Read" permission there.

Reference

[AVA](#)