[SharePoint Online] Preview data for all SharePoint lists returns no items

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

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Issue

Preview data for all sharepoint lists shows no data

Preview data

Linked service:

Object:

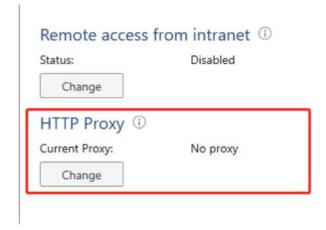


No preview data to show

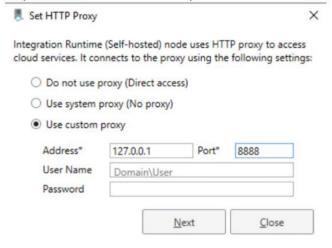
Troubleshooting

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 <u>How to capture http requests for Self-hosted IR through Fiddler - Overview (visualstudio.com)</u>



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.

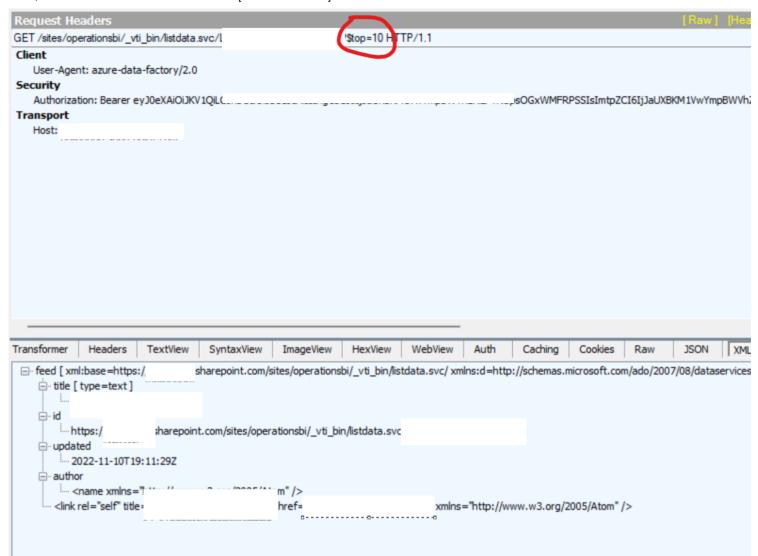


Analysis

According to the $\underline{\mathsf{code}}\ \ \Box$, it will leverage the site $\mathsf{url}\ \mathsf{and}\ /_\mathsf{vti}_\mathsf{bin/list}\mathsf{data}.\mathsf{svc}\ \mathsf{to}\ \mathsf{query}\ \mathsf{the}\ \mathsf{sharepoint}\ \mathsf{online}\ \mathsf{list}.$

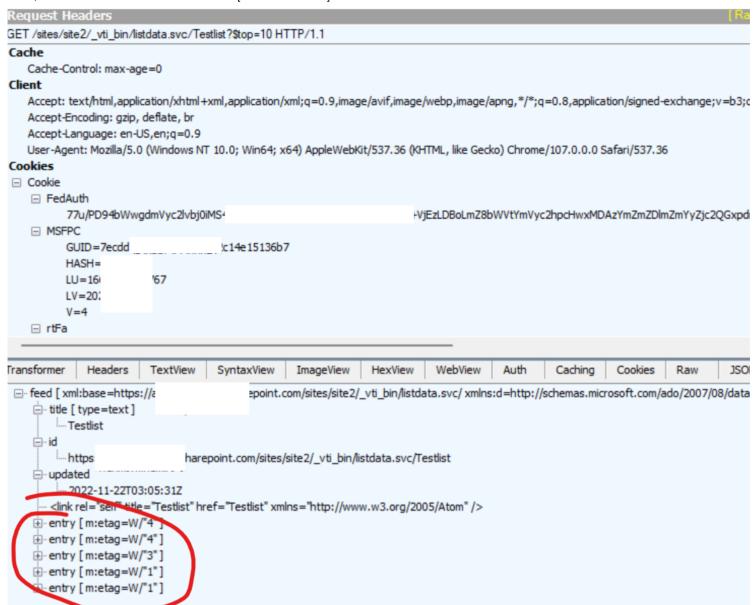
```
private const string SvcUrlPattern = "{0}/_vti_bin/listdata.svc";
var svcUrl = string.Format(CultureInfo.InvariantCulture, SvcUrlPattern, siteUrl);
```

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



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):



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 [2]

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

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