

[ODBC]How to configure proxy for RFI drivers

Last updated by | Veena Pachauri | Mar 8, 2023 at 11:59 PM PST

Background:

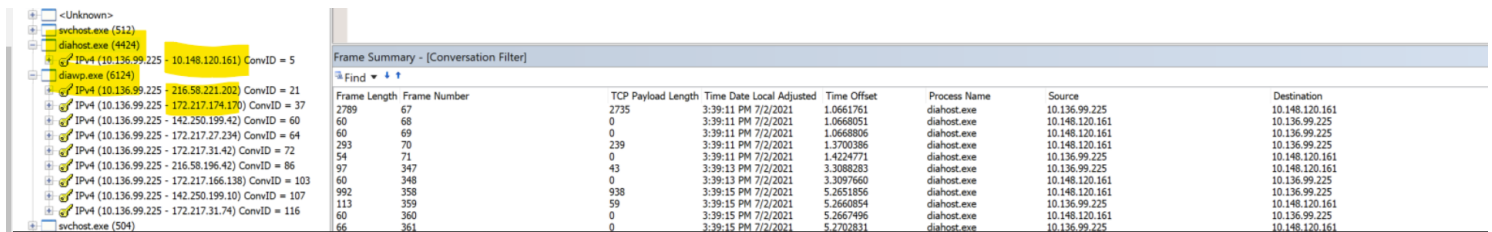
We all know, we can configure proxy for SHIR. However, there is a known issue that RFI drivers/connectors (e.g. salesforce, google big query...) will not "sync" the proxy settings with SHIR. In other words, RFI drivers will not use SHIR's proxy by default.

Due to this behavior, customer will easily get connectivity issue, when their SHIR is configured with proxy and their SHIR machine can only access external network through that proxy. (As driver will not use the proxy, so driver will not be able to connect to target service)

Symptom:

Test connection might get error like below: <Exception> 'Type=Microsoft.DataTransfer.Common.Shared.HybridDeliveryException, Message= **The operation has timed out.**, Source=Microsoft.DataTransfer.TransferService, StackTrace= at Microsoft.DataTransfer.TransferService.BusinessLogic.GatewayChannelHelper. <RelayTaskAsync> d_27'2.MoveNext() in C:\source\Source\Services\TransferService\Src\TransferServiceWebRole\BusinessLogic\GatewayChannelHelper.cs:line 350

capture netmon will find diswp will not use the proxy same as diahost.



Frame Length	Frame Number	TCP Payload Length	Time Date Local Adjusted	Time Offset	Process Name	Source	Destination
2789	67	2735	3:39:11 PM 7/2/2021	1.0661761	diahost.exe	10.136.99.225	10.148.120.161
60	68	0	3:39:11 PM 7/2/2021	1.0668051	diahost.exe	10.148.120.161	10.136.99.225
60	69	0	3:39:11 PM 7/2/2021	1.0668806	diahost.exe	10.148.120.161	10.136.99.225
293	70	239	3:39:11 PM 7/2/2021	1.3700386	diahost.exe	10.148.120.161	10.136.99.225
54	71	0	3:39:11 PM 7/2/2021	1.4224771	diahost.exe	10.136.99.225	10.148.120.161
97	347	43	3:39:13 PM 7/2/2021	3.3088283	diahost.exe	10.136.99.225	10.148.120.161
60	348	0	3:39:13 PM 7/2/2021	3.3097660	diahost.exe	10.148.120.161	10.136.99.225
992	358	938	3:39:15 PM 7/2/2021	5.2651856	diahost.exe	10.148.120.161	10.136.99.225
113	359	59	3:39:15 PM 7/2/2021	5.2660854	diahost.exe	10.136.99.225	10.148.120.161
60	360	0	3:39:15 PM 7/2/2021	5.2667496	diahost.exe	10.148.120.161	10.136.99.225
66	361	0	3:39:15 PM 7/2/2021	5.2702831	diahost.exe	10.136.99.225	10.148.120.161

Resolution:

Configure the proxy for RFI drivers independently in linked service properties.

A noticed point is, some of the linked service already have the additional property in the linked service UI and we could directly add key-value pair in it.



Annotations

+ New

But some RFI drivers do not have this option in the UI, then we need use the "Advanced" option in linked service to add required properties.

Please check following WIKI for more details

https://dev.azure.com/Supportability/AzureDataFactory/_wiki/wikis/AzureDataFactory/417916/How-to-add-additional-properties-into-RFI-driver-connectors'-linked-service

The key name for the property can be found in <https://www.simba.com>

Example:

The Google big query driver does not "sync" the proxy settings with SHIR. In order to let the driver use the same proxy as the SHIR, we need configure proxy for it independently.

To add the proxy property for it we need check the available property keys in Simba's doc.

[https://www.simba.com/products/BigQuery/doc/v2/ODBC InstallGuide/win/content/odbc/options/proxyhost.htm](https://www.simba.com/products/BigQuery/doc/v2/ODBC%20InstallGuide/win/content/odbc/options/proxyhost.htm)

Then add required properties in the linked service Json payload as below:

Edit linked service (Google BigQuery)

Description

Connect via integration runtime * ⓘ

SHIR ▼ 

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Name

Advanced ⓘ

☒ Specify dynamic contents in JSON format ⓘ

```
1
2  "type": "Microsoft.DataFactory/factories/linkedservices",
3  "properties": {
4    "typeProperties": {
5      "connectionProperties": {
6        "project": "nyctaxi-202616",
7        "requestGoogleDriveScope": false,
8        "authenticationType": "UserAuthentication",
9        "clientId": "99783912823-tk8crnolfnucm7n7cllpub0ls7bcmj",
10       "encryptedCredential": "eyJDcmVkZW50aWFsSWQjOiJjODE",
11       "ProxyHost": "192.168.1.12",
12       "ProxyPort": "80"
13     }
14   }
15 }
16
```

 Connection failed. [More](#)

Save

 Test connection

Cancel

(Since 192.168.1.12:80 is a fake proxy,so it is expected connection will fail)

After that if we capture netmon trace on SHIR, we can found the driver will go through the configured proxy as we expected.

Microsoft Network Monitor 3.4

File Edit View Frames Capture Filter Experts Tools Help

New Capture Open Capture Save As Capture Settings Start Pause Stop

Capture1 Start Page Parsers

Network Conversations

Display Filter

Apply Remove History Load Filter

Frame Summary - [Conversation Filter]

Find Autoscroll

Frame Number	Time Date Local Adjusted	Time Offset	Process Name	Source	Destination	Protocol Name	Description
326	1:12:35 PM 1/18/2021	7.7298721	diawp.exe	10.1.15.4	192.168.1.12	TCP	TCP:Flags=CE....S.,
339	1:12:38 PM 1/18/2021	10.7309398	diawp.exe	10.1.15.4	192.168.1.12	TCP	TCP:[SynReTransm
370	1:12:44 PM 1/18/2021	16.7317951	diawp.exe	10.1.15.4	192.168.1.12	TCP	TCP:[SynReTransm

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