Failed to connect to cloud service

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

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Determine which FQDN is blocked

If customer's SHIR could not connect to the cloud service, SHIR connects either below FQDNs:

- {region}.frontend.clouddatahub.net
- {factoryname}.{region}.datafactory.azure.net

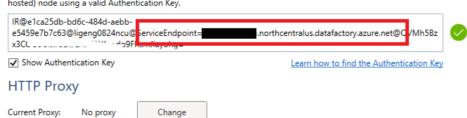
Which one to connect is determined by the key format the high-light part in below key format:

Whether key contains ServiceEndpoint	Key format	Targeted FQDN	Comment
No	IR@{Guid}@{factoryName}@ {region} @************************************	{region}.frontend.clouddatahub.net	Factory created before 2020/08 and not enabled PE, Synapse, Purview
Yes	IR@{Guid}@{factoryName}@ServiceEndpoint= {region}.frontend.clouddatahub.net@************************************	The value of ServiceEndpoint	Fairfax, Mooncake
Yes	IR@{Guid}@{factoryName}@ServiceEndpoint= {factoryname}. {region}.datafactory.azure.net@************************************	The value of ServiceEndpoint	Factory created after 2020/08 or enabled PE

Customer could verify it from the SHIR key:

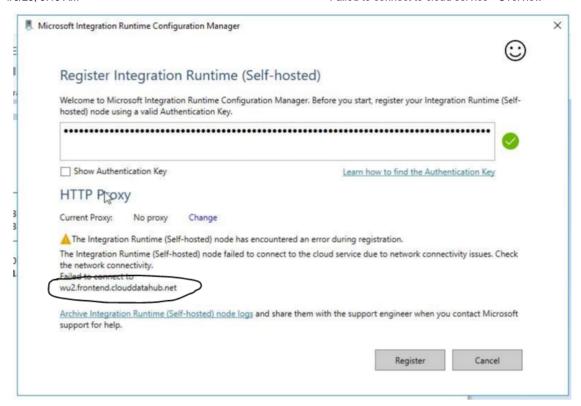
Register Integration Runtime (Self-hosted)

Welcome to Microsoft Integration Runtime Configuration Manager. Before you start, register your Integration Runtime (Self-hosted) node using a valid Authentication Key.



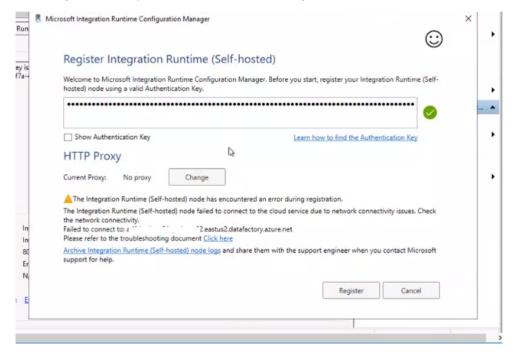
Factory enabled private endpoint

{region}.frontend.clouddatahub.net

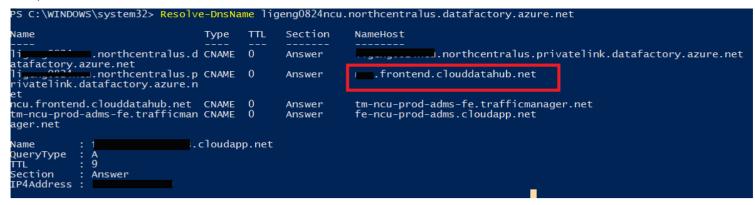


{factoryname}.{region}.datafactory.azure.net

why SHIR is connecting to this per factory fqdn, we are doing some migration for each new factory we will create a DNS record, so new SHIR created in these data factory will use this fqdn to connect to Azure Data Factory service

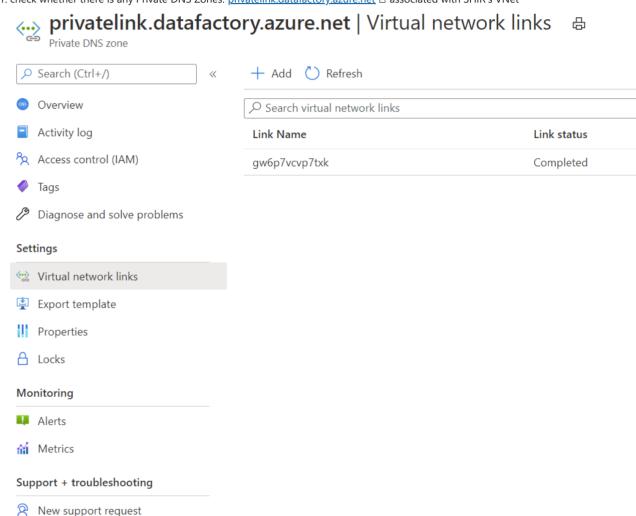


if customer could resolve the FQDN in public internet, check below:

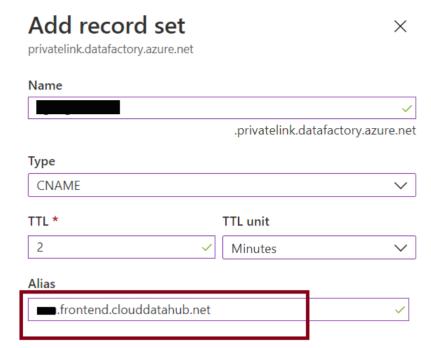


but could not resolve the DNS in his private VNet

1. check whether there is any Private DNS Zones: privatelink.datafactory.azure.net 2 associated with SHIR's VNet



- 2. If yes, either add a CRecord entry or delete the private dns zone or delete the Virtual network links
- 3. otherwise, go to below more troubleshooting stpes



Troubleshooting

1. If customer do not use proxy, use below powershell command

 $({\tt New-Object\ System.Net.WebClient}). DownloadString("{\tt https://eu.frontend.clouddatahub.net/"})$

eu_frontend.clouddatahub.net ☑ should be replaced with above fqdn

PS C:\WINDOWS\system32> (New-Object System.Net.WebClient).DownloadString("https://eu.frontend.clouddatahub.net/")

Exception calling "bownloadString" with "1" argument(s): "The remote server returned an error: (403) Forbidden."

At line:1 char:2

+ (New-Object System.Net.WebClient).DownloadString("https://eu.fronten ...

+ CategoryInfo : NotSpecified: (:) [], MethodInvocationException

+ FullYQualifiedErrorId : WebException

- [1] If you get error "the remote name could not be resolved", please help customer check DNS settings (change DNS server or change hosts mapping file)
- [2] If you get error like ssl/tls cert is not trusted, please let customer check the Cert for "https://{region please replace it to customer's region like below image}.frontend.clouddatahub.net/" is trusted on the machine, install the public cert to trusted people could mitigate this issue.
- [3] Check Event log for any failure, mostly caused by DNS, firewall rule and network settings of the company (Forcely close the connection), for this issue we should engage customer's network team for further troubleshot, every company has customize network settings.

2. If customer use proxy

Verify whether customer's proxy could access our service endpoint, (Use similar command like below, but make sure the powershell use the same proxy (https://stackoverflow.com/guestions/571429/powershell-web-requests-and-proxies [2])

 $_$ \$user = env: usernamewebproxy = (get-itemproperty 'HKCU:\Software\Microsoft\Windows\CurrentVersion\Internet Settings').ProxyServer \$pwd = Read-Host "Password?" -assecurestring

 $proxy = new - objectSystem.Net.WebProxy \\ \text{proxy-Address} = webproxy \\ \text{account} = \text{new-object System.Net.NetworkCredential} \\ \text{(}$

below response is expected:

```
Exception calling "DownloadData" with "1" argument(s): "The remote server returned an error: (403) Forbidden."

At line:1 char:1

+ $webpage = $wc.DownloadData($url)

+ CategoryInfo : NotSpecified: (:) [], MethodInvocationException

+ FullyQualifiedErrorId : WebException
```

Some special notes for Proxy:

Please help customer check if the proxy need whitelist for URL/IP, engage customer's network team or proxy admin.

Note: Please engage customer's network team/Proxy admin, if there's any special network settings.

3. If all options not resolved the issue, please help collect below log:

IR log: Collecting Self-hosted IR logs

Netmon log Fiddler Trace (should use same account as "Integration Runtime Service")