

File System Linked Service Connection Issue - Name resolution

Last updated by | Supreeth Vasudevamurthy | Nov 21, 2022 at 9:36 PM PST


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Issue Description:

1. User reported that the linked service for File System started failing with the error. **ErrorCode: 28051**
Details: e could not be resolved.

Edit linked service


 File system [Learn more](#)

Name *

CSV_FILE_CONNECTION

Description

Connect via integration

 CloudSelfIR

Host * ⓘ

E:\AZURE MASTERDA

User name *

luminousindia\kpmg1

Password [Azure](#)

Password *

.....

Annotations


[Save](#) [Cancel](#)

Error details


[↗](#) [✕](#)


Error code 28051

Details e could not be resolved.
Activity ID: 7f5036ba-974a-4030-9240-e0c8af1603aa.

 How helpful or unhelpful was this error message?

★ ★ ★ ★ ★

 **Connection failed** [More](#)

 [Test connection](#)

Troubleshooting results:

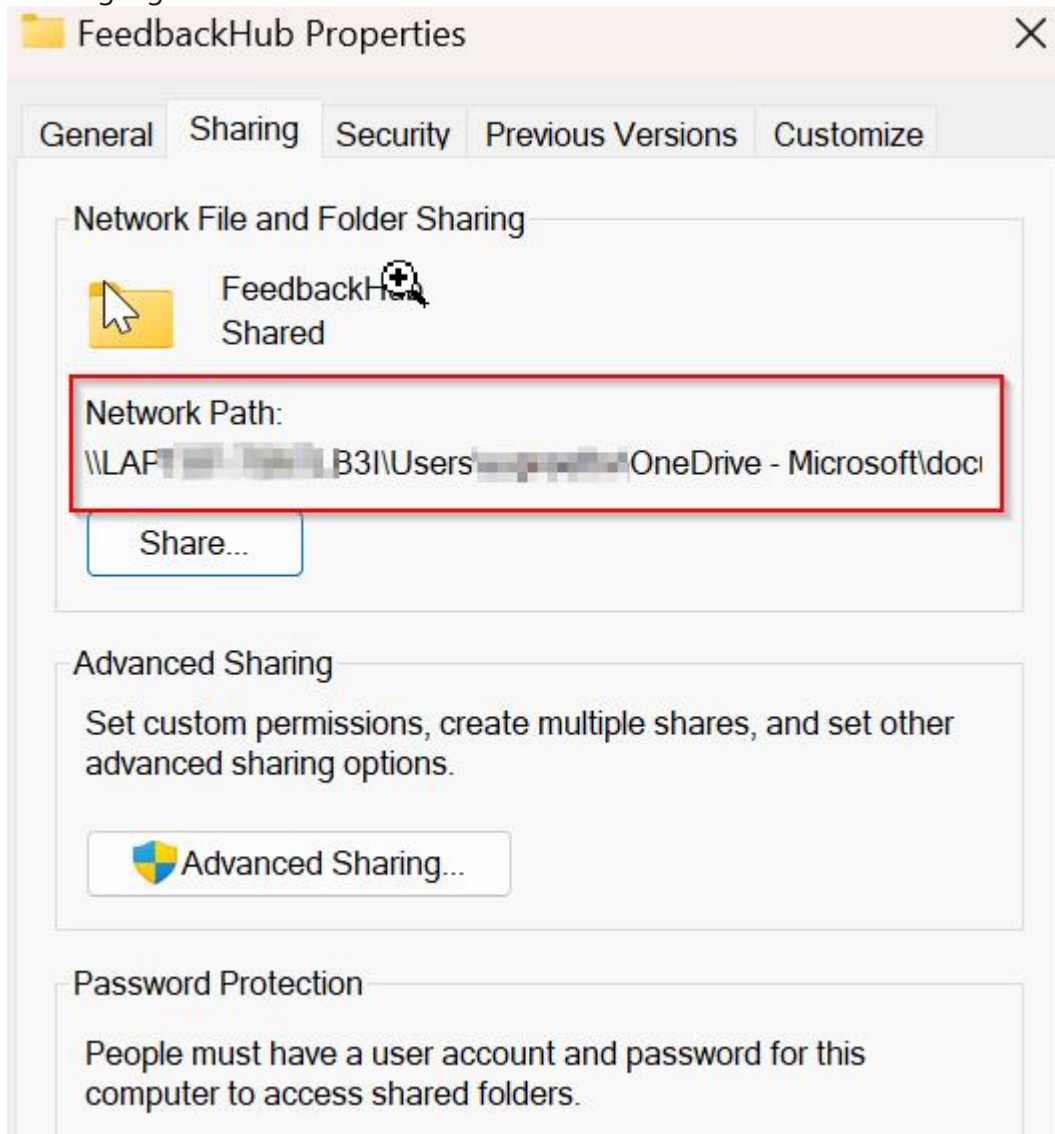
1. The networking configurations seems fine from SHIR VM as the traffic was routing properly when checked.
2. When tried connecting the same file system drive in SHIR directly, it throws the same error.
3. Also, tried for other local drive folders, but the error was persistent over all local host drives resolution.
4. The host name was being sent according to the official document. [Copy data from/to a file system - Azure Data Factory & Azure Synapse | Microsoft Learn](#)
5. The data factory was on public endpoint and the file system was the local folder on Integration Runtime machine.
6. IR Type: SHIR

Root Cause:

1. **With the recent security path/fix added to the SHIR, any host that would be resolved to <localhost> should fail now** or in the future as well due to security consideration and fix, but for such case, we will provide a knob to suppress the security feature.
2. However, setting host to folder path definitely is a security bug which shouldn't even work in the past. Any customer counting on this behavior must fix their pipelines.
3. 5.22.8297.1 is the SHIR version where the code change was made to Host Validation for directly throwing exception upon DNS resolution failure. Note that the toggle "EnableLocalMachineAccess" is not applicable for this scenario as it is only meaningful when the DNS name can be successfully resolved to IP address.

Resolution:

1. Roll back the SHIR version to 5.21.XXXX to temporary mitigate it.
2. Change the local drive folder, example, "D:\BDirectCloud\BDirect" to network shared folder and use that host address FQDN to connect.
 - 2a. For Eg: if you were connecting to a local folder in C: drive before, for the same folder to get the Shared network folder, Navigate to Properties under the folder and click on the 'Sharing' tab, Copy the Network Path highlighted and use in the linked Service 'Host' section




Edit linked service

 File system [Learn more](#) 


Name *


CSV_FILE_CONNECTION

Description

Connect via integration runtime * 

 CloudSelfIR  

 The credentials are stored in the machines of self-hosted integration runtime if you don't choose to store them in Azure Key Vault.

Host * 

\\LPCLSRVPWB\Azure MasterData\Quality

Add dynamic content [Alt+Shift+D]

AG

User name *


luminousindia\kpmg1

Password

Azure Key Vault

Password *

 Connection successful

 Test connection

Apply

Cancel

3. Move all

local host files to another machine and connect the file system as a remote shared server path in ADF.

NOTE

1. In future, any host name resolved to localhost would be blocked as well. Make sure you move those files to another machine.

Additional Information:

- **Reference:** 2211080030000326
- **Author:** : slalwani@microsoft.com
- **Reviewer:** kbanil@microsoft.com

How good have you found this content?

