Copy to Synapse - Auth issues with staging and logging

Last updated by | Veena Pachauri | Mar 9, 2023 at 12:00 AM PST

ISSUE

Client has a copy activity with Synapse as a sink, and the copy activity as the copy method, with **staging** enabled and fault tolerance + **logging**, and faces the error:

SQL DW Copy Command operation failed with error 'Cannot bulk load because the file https://XXX.dfs.core.windows.net/raw/Error_Logs/copyactivity-logs/xxxx/synapse-copy-statement/_rejectedrows/YYYYMMDD_HHMMSS/XXXXX.Row.Txt ⧉ could not be opened. Operating system error code 5(Access is denied.)

Since the client has a first blob endpoint for the staging, the fault tolerance logging will use a second blob endpoint, and it is a known limitation that the client cannot use Account Key as an authentication method:

https://docs.microsoft.com/en-us/azure/data-factory/connector-azure-blob-storage?tabs=data-factory#connector-configuration-details ⧉

> ⓘ **Note**
>
> A secondary Blob service endpoint is not supported when you're using account key authentication. You can use other authentication types.

TROUBLESHOOTING STEPS

Make sure the client has Synapse as a sink:

and confirm the client has both staging:

and logging:
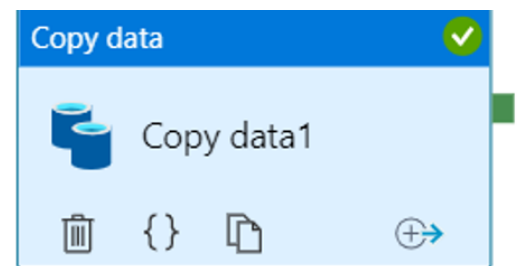
| General | Source | Sink | Mapping | **Settings** | User properties |

Fault tolerance ⓘ   Skip incompatible rows   ⌄

⚠️ To enable fault tolerance for this source-sink copy pair, also go to Sink Copy command and configure additior

Enable logging ⓘ   ✅

⌄ Logging settings

Storage connection name * ⓘ   🖼️ BlobSP   ⌄   🖉 Test connection   ✎ Edit   ╋ New

Logging level ⓘ   Warning   ⌄

Logging mode ⓘ   ◯ Reliable   ⦿ Best effort

Folder path ⓘ   📁 Browse

If this is the case, make sure the client is using either a **SAS Token or a Service Principle in the linked service of the blob that is connected to logging**. The linked service of the blob that is being used for staging can be the normal user authentication.

Note that MSI is also not supported:

Copy data1

Direct copying data to Azure Synapse Analytics using Copy command is only supported when fault tolerance linked service "Authentication method" is set as AccountKeyAuthentication, ServicePrincipalAuthentication, or SasUriAuthentication.

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