

# Dataflow activity failed with error (This operation is not permitted on a non-empty directory)

Last updated by | Ranjith Katukojwala | May 20, 2022 at 12:57 PM PDT

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## Issue

When Cx tries to run a Dataflow activity with sink type as Azure Blob storage This error occurs when the Storage Account Type is ADLS Gen2 and Hierarchy Name Space is enabled on Storage account but Cx using Azure blob Storage Linked service to connect to Storage account then they face this issue.

## Error

Activity has failed because of below user error.\nDF-SYS-01 at Sink 'Enrollment': org.apache.hadoop.fs.azure.AzureException: com.microsoft.azure.storage.StorageException: This operation is not permitted on a non-empty directory. org.apache.hadoop.fs.azure.AzureException: com.microsoft.azure.storage.StorageException: This operation is not permitted on a non-empty directory. at org.apache.hadoop.fs.azure.AzureNativeFileSystemStore.delete(AzureNativeFileSystemStore.java:2607) at org.apache.hadoop.fs.azure.AzureNativeFileSystemStore.delete(AzureNativeFileSystemStore.java:2617) at org.apache.hadoop.fs.azure.NativeAzureFileSystem.deleteFile(NativeAzureFileSystem.java:2657) at org.apache.hadoop.fs.azure.NativeAzureFileSystem 2.execute(NativeAzureFileSystem.java : 2391)atorg.apache.hadoop.fs.azure.AzureFileSystemThreadPoolExecutor.executeParallel(AzureFileSystem.write(FileFormatWriter.scala:201) at

**Note:** This usually runs fine if the Dataflow activity uses Databricks cluster but if Dataflow uses Azure Synapse spark cluster then this type of error occurs.

## Troubleshooting

1. Check if there are any files in the folder – if there are no files then issue most likely as mentioned in the next steps.
2. Find out the Storage Type from ASC or check with Cx
3. Find out the Cluster Type Dataflow job ran:

```
cluster('adfcus.kusto.windows.net').database(' AzureDataFactory').DataflowClusterLogs
| union cluster('adfneu.kusto.windows.net').database(' AzureDataFactory').DataflowClusterLogs
| where ActivityRunId == " d4e160bf-6103-4125-bbad-f4da4cc5a07f"
```

ActivityRunId	TraceCorrelationId	ClusterTrackingId	SubscriptionId	Build	Region	ClusterType
d4e160bf-6103-4125-bbad-f4da4cc5a07f	ecc3c6e5-bca4-4bce-8c8e-b5dcb005210e	205564fc-3754-4f8d-8b4a-d30754651681	07b23d15-261a-45c4-ba6d-1188a583dd31	20220505.2	centralus	Databricks:0518-201028-5f2ktzwl
d4e160bf-6103-4125-bbad-f4da4cc5a07f	ecc3c6e5-bca4-4bce-8c8e-b5dcb005210e	205564fc-3754-4f8d-8b4a-d30754651681	07b23d15-261a-45c4-ba6d-1188a583dd31	20220505.2	centralus	Databricks:0518-201028-5f2ktzwl
d4e160bf-6103-4125-bbad-f4da4cc5a07f	ecc3c6e5-bca4-4bce-8c8e-b5dcb005210e	205564fc-3754-4f8d-8b4a-d30754651681	07b23d15-261a-45c4-ba6d-1188a583dd31	20220505.2	centralus	Databricks:0518-201028-5f2ktzwl
d4e160bf-6103-4125-bbad-f4da4cc5a07f	ecc3c6e5-bca4-4bce-8c8e-b5dcb005210e	205564fc-3754-4f8d-8b4a-d30754651681	07b23d15-261a-45c4-ba6d-1188a583dd31	20220505.2	centralus	Databricks:0518-201028-5f2ktzwl
d4e160bf-6103-4125-bbad-f4da4cc5a07f	ecc3c6e5-bca4-4bce-8c8e-b5dcb005210e	205564fc-3754-4f8d-8b4a-d30754651681	07b23d15-261a-45c4-ba6d-1188a583dd31	20220505.2	centralus	Databricks:0518-201028-5f2ktzwl
d4e160bf-6103-4125-bbad-f4da4cc5a07f	ecc3c6e5-bca4-4bce-8c8e-b5dcb005210e	205564fc-3754-4f8d-8b4a-d30754651681	07b23d15-261a-45c4-ba6d-1188a583dd31	20220505.2	centralus	Databricks:0518-201028-5f2ktzwl
d4e160bf-6103-4125-bbad-f4da4cc5a07f	ecc3c6e5-bca4-4bce-8c8e-b5dcb005210e	205564fc-3754-4f8d-8b4a-d30754651681	07b23d15-261a-45c4-ba6d-1188a583dd31	20220505.2	centralus	Databricks:0518-201028-5f2ktzwl
d4e160bf-6103-4125-bbad-f4da4cc5a07f	ecc3c6e5-bca4-4bce-8c8e-b5dcb005210e	205564fc-3754-4f8d-8b4a-d30754651681	07b23d15-261a-45c4-ba6d-1188a583dd31	20220505.2	centralus	Databricks:0518-201028-5f2ktzwl
d4e160bf-6103-4125-bbad-f4da4cc5a07f	ecc3c6e5-bca4-4bce-8c8e-b5dcb005210e	205564fc-3754-4f8d-8b4a-d30754651681	07b23d15-261a-45c4-ba6d-1188a583dd31	20220505.2	centralus	Databricks:0518-201028-5f2ktzwl
d4e160bf-6103-4125-bbad-f4da4cc5a07f	ecc3c6e5-bca4-4bce-8c8e-b5dcb005210e	205564fc-3754-4f8d-8b4a-d30754651681	07b23d15-261a-45c4-ba6d-1188a583dd31	20220505.2	centralus	Databricks:0518-201028-5f2ktzwl
d4e160bf-6103-4125-bbad-f4da4cc5a07f	ecc3c6e5-bca4-4bce-8c8e-b5dcb005210e	205564fc-3754-4f8d-8b4a-d30754651681	07b23d15-261a-45c4-ba6d-1188a583dd31	20220505.2	centralus	Databricks:0518-201028-5f2ktzwl
d4e160bf-6103-4125-bbad-f4da4cc5a07f	ecc3c6e5-bca4-4bce-8c8e-b5dcb005210e	205564fc-3754-4f8d-8b4a-d30754651681	07b23d15-261a-45c4-ba6d-1188a583dd31	20220505.2	centralus	Databricks:0518-201028-5f2ktzwl
d4e160bf-6103-4125-bbad-f4da4cc5a07f	ecc3c6e5-bca4-4bce-8c8e-b5dcb005210e	205564fc-3754-4f8d-8b4a-d30754651681	07b23d15-261a-45c4-ba6d-1188a583dd31	20220505.2	centralus	Databricks:0518-201028-5f2ktzwl
d4e160bf-6103-4125-bbad-f4da4cc5a07f	ecc3c6e5-bca4-4bce-8c8e-b5dcb005210e	205564fc-3754-4f8d-8b4a-d30754651681	07b23d15-261a-45c4-ba6d-1188a583dd31	20220505.2	centralus	Databricks:0518-201028-5f2ktzwl
d4e160bf-6103-4125-bbad-f4da4cc5a07f	ecc3c6e5-bca4-4bce-8c8e-b5dcb005210e	205564fc-3754-4f8d-8b4a-d30754651681	07b23d15-261a-45c4-ba6d-1188a583dd31	20220505.2	centralus	Databricks:0518-201028-5f2ktzwl
d4e160bf-6103-4125-bbad-f4da4cc5a07f	ecc3c6e5-bca4-4bce-8c8e-b5dcb005210e	205564fc-3754-4f8d-8b4a-d30754651681	07b23d15-261a-45c4-ba6d-1188a583dd31	20220505.2	centralus	Databricks:0518-201028-5f2ktzwl

## Recommendation

Ask Cx to change the Linked Service type to use Gen2 LS by creating a new one. Refer to this [link](#)

or

Since we migrated from Databricks to the Synapse cluster and the above scenario would be a non-supported scenario. If Cx is not willing to change LS type by any chance soon and requests for some time, please reach out to Dataflow PG via AVA and PG will guide accordingly.

## References:

Case [2205190040007814](#) 

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