

# [SQL DW] This request is not authorized to perform this operation using this permission

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

Contents

- Issue
- Resolution

## Issue

Copy from ADLS Gen 2 to SQL using ADF copy activity with polybase failing with the following error:

```
<LogProperties><Text>Copy failed with error: 'Type=Microsoft.DataTransfer.Common.Shared.HybridDeliveryException,Message=Please make sure SQL DW has access to
at Microsoft.DataTransfer.ClientLibrary.PolybaseExecutor.Execute(IPolybaseConfiguration config)
at Microsoft.DataTransfer.TransferTask.PolybaseStageProcessor.ProcessInternal(NoData data)
at Microsoft.DataTransfer.Runtime.PipelineProcessStageProcessor`2.Process(TInput data)
at Microsoft.DataTransfer.Runtime.PipelineProcessStageProcessor`2.Process(TInput data)
at Microsoft.DataTransfer.TransferTask.CopyTask.DoCopy()
at Microsoft.DataTransfer.TransferTask.CopyTaskBase.Execute(), 'Type=System.Data.SqlClient.SqlException,Message=External file access failed due to internal
HdfsBridge::isDirExist - Unexpected error encountered checking whether directory exists or not: AbfsRestOperationException: Operation failed: "This request is
HdfsBridge::isDirExist - Unexpected error encountered checking whether directory exists or not: AbfsRestOperationException: Operation failed: "This request is
at System.Data.SqlClient.SqlConnection.OnError(SqlException exception, Boolean breakConnection, Action`1 wrapCloseInAction)
at System.Data.SqlClient.TdsParser.ThrowExceptionAndWarning(TdsParserStateObject stateObj, Boolean callerHasConnectionLock, Boolean asyncClose)
at System.Data.SqlClient.TdsParser.TryRun(RunBehavior runBehavior, SqlCommand cmdHandler, SqlDataReader dataStream, BulkCopySimpleResultSet bulkCopyHandler
at System.Data.SqlClient.SqlCommand.InternalEndExecuteNonQuery(IAsyncResult asyncResult, String endMethod, Boolean isInternal)
at System.Data.SqlClient.SqlCommand.EndExecuteNonQueryInternal(IAsyncResult asyncResult)
at System.Data.SqlClient.SqlCommand.EndExecuteNonQueryAsync(IAsyncResult asyncResult)
at System.Threading.Tasks.TaskFactory`1.FromAsyncCoreLogic(IAsyncResult iar, Func`2 endFunction, Action`1 endAction, Task`1 promise, Boolean requiresSynchron
```

## Resolution

Customer should provide required ADLS Gen2 permissions to sink Synapse's Managed Id but not ADF's Managed Id. "Polybase" allows sink SQL Datawarehouse aka Synapse directly access data from ADLS Gen2, but ADF cannot read data from ADLS, except from staging copy area. You may refer to the following link: <https://docs.microsoft.com/en-us/azure/synapse-analytics/security/how-to-grant-workspace-managed-identity-permissions>

## Further Investigation

You can find out the objectId being used to access the storage account by querying [ADLS Gen2](#) logs.

In this particular case, we found the account (UserObjectId) which was being used to query ADLS Gen2 to give permission:

Operation	Status	UserObjectId	ErrorDetail	LastFEErrorCode
GetFileProperties	AuthorizationPermissionMismatch This request is n...		RBAC Authori...	-2096430326

You can use ASC to query the objectId to get the name of the app/user being used to access ADLS Gen2 storage. Steps below:

1. Launch ASC -> Tenant Explorer
2. Click on Application from the list and choose **Serviceprincipal ObjectId** from the Search Type drop-down
3. Enter the ObjectId in the Search box and click Run.

Service

Azure AD Explorer

F66FAE02-5D36-495B-8FE0-78A6FF9F8E6E

Domains

Graph Explorer

Application

Conditional Access

MFA

Identity Protection

User

Group

Contact

Device

Audit Logs

Resource Management

Applications

Settings

Managed Identities

Delegated Permission Classifications

Permission Grant Policies

Aut

Please narrow your search results to one application to see additional tabs (like Role Assignment, Single Sign-On etc)

Search Type

Serviceprincipal ObjectId

Search

Run

This is an active application.

Configuration

Service Principal

Application Object

App Role Assignments

Self Service

Single Sign-On

App Type

Object ID

App ID

Parent App ID

App Display Name

Created DateTime

Display Name

N/A

N/A

N/A

2020-09-14 14:19:56

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4. Get the Display Name and ensure customer has assigned a RBAC role with the Storage account as mentioned in the article above.

Additional Information:

- Icm References: <https://portal.microsofticm.com/imp/v3/incidents/details/198637506/home>

How good have you found this content?

