Sync Error - No Clustered Index Exception

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Contents

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Issue

Failed to sync all the data from sql server in VM to hub azure sql db

Customer side's exception is unknown

Troubleshooting

Check syncgroupstatus.xts

Can see following error based on the tracking id

Microsoft.SqlServer.Management.Service.Workflows.DataSyncOperationManagementOperation 8513 20 Microsoft Distributed Transaction Coordinator (MS DTC) end transaction acknowledgement failed: Exception of type 'Microsoft.SqlAzureDataSync.ClientServerCommon.Exceptions.**DssNoClusteredIndexException**' was thrown..

Cause

Basically, it means that table(s) in the selected sync schema doesn't contain a **Clustered Index**

Customer can have the clustered index on another column other than the PK column (usually it's on the PK columns).

The reason for the clustered index requirement is because in SAWA V1, SQL DB required clustered PK. For SAWA V2, it's not required anymore, PG has fixed the issue and plans to remove this soon.

TSG: Sync0010 Error "DssNoClusteredIndexException" when trigger sync

Resolution

We can ask customer to run this query:

```
SELECT [name] FROM sys.tables
WHERE [object_id] NOT IN (SELECT [object_id] FROM sys.indexes WHERE type=1 AND is_primary_key=1)
```

Then create **PK with Clustered Index** on those tables want to sync

If the cluster index is added later, we may need to perform following steps to refresh the schema in cache.

1. Remove the table from the sync group and save it.
2. Drop the table from the on-premise database.
3. Refresh the schema from portal.
4. Add the table again to database using the definition you shared below.
5. Refresh the schema from portal.
6. Add the table with all columns to sync group and save it again.
7. Run the sync.

Classification

Root cause Tree - DataSync/User issue/error/SyncFail

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