DSS043 - SQL error with code 103

Last updated by | Vitor Tomaz | Jun 8, 2022 at 5:32 AM PDT

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Issue

Provision fails (ProvFailure) with
SqlException ID: xxxxx, Error Code: -2146232060 - SqlError Number:103, Message: SQL error with code 103
SqlError Number:103, Message: SQL error with code 103
For more information, provide tracing ID 'yyyyyy' to customer support.

Investigation/Analysis

Use the tracing ID on the error message to find more details:

```
MonDataSync
| where TracingId == 'yyyyyy'
```

You can see logs like

```
'Type=Microsoft.Synchronization.Data.DbPartiallyProvisionedException,Message=The identifier that starts with
&apos;ABCDEF ZZZZZZZZZZZZ$Cust_ Ledger Entry$12345678-84ff-417a-965d-ed2bb9650972_dss_selectchanges_123456789-
is too long. Maximum length is 128. ,Source=Microsoft.Synchronization.Data.SqlServer,StackTrace=
    at Microsoft.Synchronization.Data.SqlServer.SqlSyncScopeProvisioning.ApplyScope(SqlConnection connection)
    at Microsoft.Synchronization.Data.SqlServer.SqlSyncScopeProvisioning.ApplyInternal(SqlConnection connection
    at Microsoft.Synchronization.Data.SqlServer.SqlSyncScopeProvisioning.Apply(),'
```

Mitigation

Unless customer can change the table names and have them up to 73 characters, Data Sync will not be able to be used on this database.

RCA Template

Data Sync tracks changes using insert, update, and delete triggers. The changes are recorded in a side table in the user database. Data Sync uses stored procedures (among other objects) to sync data. These stored procedures are named like {TableName}*dss_selectchanges*{ScopeId}. One example: CREATE PROCEDURE [DataSync].[Table4_dss_selectchanges_0669a060-e1ec-4b99-acb8-fb1ce059a29a]

The length of the ScopeId cannot be changed and the complete name for a procedure or a global temporary procedure, including ##, cannot exceed 128 characters. This means that if the TableName exceeds 73 characters, Data Sync provisioning will fail with SQL error 103 that means "The identifier that starts with {x} is too long. Maximum length is 128."

Unless customer can change the table names and have them up to 73 characters, Data Sync will not be able to be used on this database.

Internal Reference

https://portal.microsofticm.com/imp/v3/incidents/details/249182592/home ⧉

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