# **Import or Export Investigation - Sterling**

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#### Issue

This TSG will cover the basic initial investigation into Import Export failures based on the new Sterling based IE service.

Typically when an Import or Export has failed the customer will be able to provide the Request ID you should ask the customer for this, its not a disaster if they can't provide it though.

## Investigation/Analysis

If you have the Request ID from the customer you can use this to inspect MonManagement and MonManagementOperations tables to get some idea about what went wrong. For example

MonManagementOperations

| where request\_id == "37600FEE-D054-4653-99EE-6629880E6691"

project

TIMESTAMP, ClusterName, NodeName, event, request\_id, subscription\_id, operation\_type, operation\_category, operation\_parameters

The operation\_parameters are probably of most interest to us, typically it looks like this.

- <InputParameters xmlns:xsd="http://www.w3.org/2001/XMLSchema"</pre>
- xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
- <SubscriptionId>435641c1-841e-4bc8-80a3-f3f3bba44354</SubscriptionId>
- <ResourceGroup>we-europe</ResourceGroup>
- <ServerName>we-server</ServerName>
- <DatabaseName>bacpacgap</DatabaseName>
- <OperationType>Export</OperationType>
- <Edition>Standard</Edition>
- <ServiceObjectiveName>S2</ServiceObjectiveName>
- <MaxSizeBytes>268435456000</MaxSizeBytes>

- <StorageKeyType>SharedAccessKey</StorageKeyType>
- <StorageUri>https://cc2store.blob.core.windows.net/exevt/bacpacgap-2021-1-5-13-45.bacpac □ </StorageUri>
- <AuthenticationType>SQL</AuthenticationType>
- <UseImportExportApp>true</UseImportExportApp>
- <UseHighConcurrencyImportExportQueue>false</UseHighConcurrencyImportExportQueue>
- <SourceDBShouldExist>true</SourceDBShouldExist>
- /InputParameters>

But if the request ID is not provided you can run something like this to find all the IE operations for a server and how they ended.

#### MonManagement

| where operation\_parameters contains "we-server" | where operation\_type contains "ExportDatabase" or operation\_type contains 'Import' | project TIMESTAMP, operation\_type, event, elapsed\_time, request\_id, database\_name | order by TIMESTAMP asc

The output will look something like this

Specifically, we are looking at 'event' for failure logs.

To get a simple list of Import/Exports for a given server you could also use the following

### MonImportExport

| where logical\_server\_name contains "we-server" | where Level = ~ 'Verbose' | project TIMESTAMP,NodeName,AppName,AppTypeName, request\_id ,logical\_server\_name,LogicalDatabaseName,Detail

Once we have identified the specific request we can pull details of that request using the following

Looking at a specific export we can use the following:

#### MonImportExport

| where request\_id = ~ "501704a3-b49d-4945-b930-796ed19b0fff" | project TIMESTAMP,NodeName,AppName,AppTypeName, request\_id ,logical\_server\_name,LogicalDatabaseName,Detail

#### **Interpreting Progress %**

#### **Import Progress %**

- 1. Import starts at 1%
- 2. If/while db creation is requested progress still remains at 1%
- 3. While blob is being downloaded progress still remains at 1% (future improvement schedule to report between 1%-5%)
- 4. While DacFx "installs" schema progress still remains at 1% (with above improvement it will be at 5%) (DacFx does not report to us progress for "install")
- 5. While DacFx imports table data progress will be reported between 15%-95%
- 6. While DacFx finalizes schema progress remains at 95%

7. On completion progress finishes at 100%

### **Export Progress %**

- 1. Export starts at 1%
- 2. While DacFx runs extract progress remains 1% (DacFx does not report to us progress for "extract")
- 3. While DacFx exports the table data progress will be reported between 10%-90% (DacFx does report to us progress for "export")
- 4. While blob is uploading progress remains at 90% (current improvement in the works to report from 90%-99%)
- 5. On completion progress finishes at 100%

## **Typical errors**

I ran a query to get a list of common errors they appear to fall into othe following categories

Exception details		
Microsoft. Xdb. Import Export. Operations. Exceptions. BadSql Credentials Exception		
Microsoft. Xdb. Import Export. Operations. Exceptions. BadSql Firewall Exception		
Microsoft. Xdb. Import Export. Operations. Exceptions. Dac Operation Wrapped Dac Services Exception		
System.AggregateException		
Microsoft. Xdb. Import Export. Operations. Exceptions. Unknown Sql Exception		
Microsoft.SqlServer.Dac.Data.DataException		
Microsoft. Xdb. Import Export. Operations. Exceptions. Invalid Database Exception		
Microsoft. Xdb. Import Export. Operations. Exceptions. BadSql Adal Exception		
System.ArgumentException		
Azure.RequestFailedException		
Failed to update status.		
Microsoft.Xdb.ImportExport.Operations.Exceptions.InvalidStorageUriException		
Microsoft. Xdb. Import Export. Operations. Exceptions. ImportInterrupted Exception		
System.AggregateException		

## Mitigation

The exception recieved will need to be investigated further but the MonImportExport does, for some errors there will be suggested sollutions, this can be found in the ExceptionMessage column, for example

MonImportExport | where request\_id =~ "501704a3-b49d-4945-b930-796ed19b0fff" | where Level =~ 'Critical' | project ExceptionType,ExceptionMessage

ExceptionType	ExceptionMessage
Microsoft.Xdb.ImportExport.Operations.Exceptions.BadSqlFirewallException	The Azure SQL Server firewall did not allow the operation to connect. To resolve this, please selec the "Allow All Azure"checkbox in the S Server's configuration blade.
System.Data.SqlClient.SqlException	Please see PiiImportExportExceptio for the complete messac

# **Internal Reference (optional)**

This may include links to architecture, training material, etc. that is helpful for understanding the steps given above.

#### **Root Cause Classification**

Cases resolved by this TSG should be coded to the following root cause: <Root cause path>

## How good have you found this content?

