

Import or Export - Export Fails on blob Storage

Last updated by | Keith Elmore | Apr 5, 2021 at 7:56 AM PDT

Contents

- [Issue](#)
- [Investigation/Analysis](#)
- [Mitigation](#)
- [RCA Template \(optional\)](#)
- [Root Cause Classification](#)

Issue

An attempt has been made to export a database using the Import/Export the export may fail if there is a transient failure on the blob storage which the bacpac file is being written.

An example of what the customer may see is as follows

'Retry failed after 6 tries. A task was canceled.'

Properties

Database

LogicalServer

Operation

ExportDatabase

Status

Failed

Start time

2/5/2021 4:52:00 AM

End time

2/5/2021 6:08:07 AM

Operation ID

d8274c5d-fc23-4bc1-b63a-453493a3...



Subscription ID

[Redacted]



Additional details

Retry failed after 6 tries. A task was canceled.

Investigation/Analysis

The issue can be seen from the usual MonMonManagement and MonImportExport tables in Kusto.

Once you have the request_id you can look into the MonImportExport table, at the top of the output you will see the export starting and progressing.

MonImportExport

| where request_id =~ "0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05"

| project TIMESTAMP,NodeName,AppName,AppTypeName, request_id

,logical_server_name,LogicalDatabaseName,Detail

(note Server/database columns removed)

TIMESTAMP	▲	NodeName	AppName	AppTypeName	request_id	Detail
2021-02-05 16:24:04.9114359		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	OnOpen() is called
2021-02-05 16:24:04.9114359		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	OnChangeRole() is called....
2021-02-05 16:24:04.9114359		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	Opening instance of Impo...
2021-02-05 16:24:04.9114359		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	Retrieve parameters from f...
2021-02-05 16:24:33.3658431		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	Exiting InstanceOpen()
2021-02-05 16:24:33.3658431		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	Starting DacOperation asy...
2021-02-05 16:24:33.3658431		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	Starting Export operation.
2021-02-05 16:24:33.3658431		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	Exporting the database to...
2021-02-05 16:25:03.3684706		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	Running, Progress = 10.00%
2021-02-05 16:25:03.3684706		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	Running, Progress = 10.00%
2021-02-05 16:25:03.3684706		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	Running, Progress = 10.00%
2021-02-05 16:25:03.3684706		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	Running, Progress = 10.01%
2021-02-05 16:25:03.3684706		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	Running, Progress = 10.01%
2021-02-05 16:25:03.3684706		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	Running, Progress = 10.02%
2021-02-05 16:25:03.3684706		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	Running, Proqress = 10.02%

At the end of the output before the tidy up section you will see something like this.

TIMESTAMP	▲	NodeName	AppName	AppTypeName	request_id	Detail
2021-02-05 17:37:34.2747579		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	Running, Progress = 90.00%
2021-02-05 17:37:34.2747579		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	Upload backup of size 3589773KB to Azure Storage.
2021-02-05 17:48:04.4767553		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	Exiting thread loop for StatusPropertySynchronizer
2021-02-05 17:48:04.4767553		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	ImportExport application encountered an error during operation execution: System.AggregateException
2021-02-05 17:48:04.4767553		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	ImportExport application encountered an error during operation execution: System.AggregateException
2021-02-05 17:48:04.4767553		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	ImportExport application encountered an error during operation execution: System.AggregateException
2021-02-05 17:48:04.4767553		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	ImportExport application encountered an error during operation execution: System.AggregateException
2021-02-05 17:48:04.4767553		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	ImportExport application encountered an error during operation execution: System.AggregateException
2021-02-05 17:48:04.4767553		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	ImportExport application encountered an error during operation execution: System.AggregateException
2021-02-05 17:59:04.6619360		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	OnChangeRole() is called. NewRole is None
2021-02-05 17:59:04.6619360		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	Stop() is called.
2021-02-05 17:59:04.6619360		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	Service instance /ImportExport/a4b93771d7f5/SQL.ImportExport/a4b93771d7f5 is being shutdown
2021-02-05 17:59:04.6619360		DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	Service instance /ImportExport/a4b93771d7f5/SQL.ImportExport/a4b93771d7f5 is shutdown

You can see here there appears to be some retry attempts occurring, to get some more detail we need the ExceptionStackTrace information

MonImportExport

| where request_id ~ "0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05"

| project TIMESTAMP,NodeName,AppName,AppTypeName, request_id
,logical_server_name,LogicalDatabaseName,Detail,ExceptionStackTrace

TIMESTAMP ▲	NodeName	AppName	AppTypeName	request_id	Detail	ExceptionStackTrace
2021-02-05 17:37:34.2747579	DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	Upload bacpac of size 358...	
2021-02-05 17:48:04.4767553	DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	Exiting thread loop for Sta...	
2021-02-05 17:48:04.4767553	DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	ImportExport application e...	at Azure.Core.Pi... --- End of stack tr... at System.Runti... at System.Runti... at Azure.Core.Pi... at Azure.Core.Pi... at Azure.Core.Pi... at Azure.Core.Pi...
2021-02-05 17:48:04.4767553	DB16C.3	a4b93771d7f5	ImportExport	0fdaf7ae-b6b6-457f-a3d3-893cf2ca1d05	ImportExport application e...	at System.Runti... at System.Runti... at Azure.Core.Pi... --- End of stack tr... at System.Runti... at System.Runti... at System.Runti... at System.Runti... at Azure.Core.Pi...

The exception stack can be copied out of Kusto and pasted into an editor (notepad) which makes it easier to read.

```

--
at Azure.Core.Pipeline.RetryPolicy.<ProcessAsync>d__11.MoveNext()
--- End of stack trace from previous location where exception was thrown ---
at System.Runtime.ExceptionServices.ExceptionDispatchInfo.Throw()
at System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndDebuggerNotification(Task task)
at Azure.Core.Pipeline.TaskExtensions.EnsureCompleted(ValueTask task)
at Azure.Core.Pipeline.RetryPolicy.Process(HttpMessage message, ReadOnlyMemory`1 pipeline)
at Azure.Core.Pipeline.HttpPipelinePolicy.ProcessNext(HttpMessage message, ReadOnlyMemory`1 pipeline)
at Azure.Core.Pipeline.HttpPipelineSynchronousPolicy.Process(HttpMessage message, ReadOnlyMemory`1 pipeline)
at Azure.Core.Pipeline.HttpPipelinePolicy.ProcessNext(HttpMessage message, ReadOnlyMemory`1 pipeline)
at Azure.Core.Pipeline.HttpPipelineSynchronousPolicy.Process(HttpMessage message, ReadOnlyMemory`1 pipeline)
at Azure.Core.Pipeline.HttpPipelinePolicy.ProcessNext(HttpMessage message, ReadOnlyMemory`1 pipeline)
at Azure.Core.Pipeline.HttpPipelineSynchronousPolicy.Process(HttpMessage message, ReadOnlyMemory`1 pipeline)
at Azure.Core.Pipeline.HttpPipeline.Send(HttpMessage message, CancellationToken cancellationToken)
at Azure.Storage.Blobs.BlobRestClient.BlobClient.<UploadAsync>d__0.MoveNext()
--- End of stack trace from previous location where exception was thrown ---
at System.Runtime.ExceptionServices.ExceptionDispatchInfo.Throw()
at System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndDebuggerNotification(Task task)
at System.Threading.Tasks.ValueTask`1.get_Result()
at Azure.Storage.Blobs.Specialized.BlobClient.<UploadInternal>d__26.MoveNext()
--- End of stack trace from previous location where exception was thrown ---
at System.Runtime.ExceptionServices.ExceptionDispatchInfo.Throw()
at System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndDebuggerNotification(Task task)
at Azure.Storage.Blobs.Specialized.BlobClient.<<_DisplayClass48_0.<<GetPartitionedUploaderBehaviors>b__0>d.MoveNext()>
--- End of stack trace from previous location where exception was thrown ---
at System.Runtime.ExceptionServices.ExceptionDispatchInfo.Throw()
at System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndDebuggerNotification(Task task)
at Azure.Storage.PartitionedUploader`2.<UploadInternal>d__19.MoveNext()
--- End of stack trace from previous location where exception was thrown ---
at System.Runtime.ExceptionServices.ExceptionDispatchInfo.Throw()
at System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndDebuggerNotification(Task task)
at Azure.Storage.Blobs.BlobClient.<StagedUploadInternal>d__29.MoveNext()
--- End of stack trace from previous location where exception was thrown ---
at System.Runtime.ExceptionServices.ExceptionDispatchInfo.Throw()
at System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndDebuggerNotification(Task task)
at Azure.Core.Pipeline.TaskExtensions.EnsureCompleted[T](Task`1 task)
at Azure.Storage.Blobs.BlobClient.Upload(Stream content, BlobHttpHeaders httpHeaders, IDictionary`2 metadata, BlobRequestConditions conditions, IProgress`1 progressHandler, Nullable`1 &
at Azure.Storage.Blobs.BlobClient.Upload(Stream content, Boolean overwrite, CancellationToken cancellationToken)
at Microsoft.Xdb.ImportExportOperations.ExportOperation.ExecuteImpl(CancellationTokens cancellationToken) in d:\dbs\sh\w3sc\0121_030801\cmd\k\Sq\l\ldb\manifest\svc\ImportExport\Operator
at Microsoft.Xdb.ImportExportOperations.DacOperation.Execute(CancellationTokens cancellationToken) in d:\dbs\sh\w3sc\0121_030801\cmd\k\Sq\l\ldb\manifest\svc\ImportExport\Operations\DacOp
at Microsoft.Xdb.ImportExport.ImportExportService.RunDacOperation() in d:\dbs\sh\w3sc\0121_030801\cmd\k\Sq\l\ldb\manifest\svc\ImportExport\ImportExportService.cs:line 274

```

```

--- End of stack trace from previous location where exception was thrown ---
at System.Runtime.ExceptionServices.ExceptionDispatchInfo.Throw()
at System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndDebuggerNotification(Task task)
at Azure.Core.Pipeline.TaskExtensions.EnsureCompleted[T](Task 1 task) at
Azure.Storage.Blobs.BlobClient.Upload(Stream content, BlobHttpHeaders httpHeaders, IDictionary 2 metadata,
BlobRequestConditions conditions, IProgress 1 progressHandler, Nullable 1 accessTier, StorageTransferOptions
transferOptions, CancellationToken cancellationToken)
at Azure.Storage.Blobs.BlobClient.Upload(Stream content, Boolean overwrite, CancellationToken
cancellationToken)
at Microsoft.Xdb.ImportExportOperations.ExportOperation.Executelmpl(CancellationTokencancellationToken) in

```

```
d:\dbs\sh\w3sc\0121_030801\cmd\k\Sq\xdb\manifest\svc\ImportExport\Operations\ExportOperation.cs:line 224
at Microsoft.Xdb.ImportExport.Operations.DacOperation.Execute(CancellationTokencancellationToken) in
d:\dbs\sh\w3sc\0121_030801\cmd\k\Sq\xdb\manifest\svc\ImportExport\Operations\DacOperation.cs:line 119
at Microsoft.Xdb.ImportExport.ImportExportService.RunDacOperation() in
d:\dbs\sh\w3sc\0121_030801\cmd\k\Sq\xdb\manifest\svc\ImportExport\ImportExportService.cs:line 274
```

Mitigation

If the export has failed retrying may be successful, alternatively using sqlpackage.exe and exporting to a local storage can be used as a workaround.

RCA Template (optional)

For recurring [by design] issues where there is an RCA template for the engineer to customize with timestamps and server details, provide that here.

Root Cause Classification

Cases resolved by this TSG should be coded to the following root cause:

Root Cause: Azure SQL v3\Import/Export\Import issues\Import failed

****How good have you found this content?****



-