

Import BACPAC fails if database schema is large

Last updated by | Vitor Tomaz | Jun 8, 2022 at 5:31 AM PDT

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Issue

Azure portal Import from BACPAC fails if database schema is large because the number of tables, columns, indexes and views.

" BadRequest ErrorMessage: The ImportExport operation with Request Id 'ed049683-1d74-46bf-9dd6-2375c5d079fa' failed due to 'An internal error occurred. Please contact Microsoft support and reference the server name, database name, and operation ID.'.."

SQL Server Management Studio "Import data-tier application" option fails after some time with an error that indicating "not enough memory"

Investigation/Analysis

If the number of tables, indexes and views is large, import model preparation needs a lot of memory and time.

Mitigation

Import BACPAC using SqlPackage.exe using "/p:Storage=File" option


/p: Storage=({File|Memory}) Specifies how elements are stored when building the database model. For performance reasons the default is InMemory. For large databases, File backed storage is required.

Syntax

```
sqlpackage.exe /Action:Export /ssn:tcp:<servername>.database.windows.net,1433 /sdn:<source-database-name> /su:<username> /sp:<Password> /tf:.\export.bacpac /p:Storage=File /d:true /df:.\outputlog.log /p:LongRunningCommandTimeout=0
```

```
SqlPackage.exe /Action:Import /sf:.\bacpacfile.bacpac /tsn:<servername>.database.windows.net /tdn:<database-name> /p:Storage=File /tu:<username> /tp:***** /d:true /df:.\outputlog.log /p:LongRunningCommandTimeout=0
```

Note that some import steps will take some time (hours) and you could think that process is hang. You can use Windows "Resource Monitor" and monitor Sqlpackage.exe disk activity.

<https://techcommunity.microsoft.com/t5/azure-database-support-blog/using-sqlpackage-to-import-or-export-sql-server-and-azure-sql-db/ba-p/368861> 

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?



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