Useful options when exporting to bacpac

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

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Issue

Customer just wants to export one table, or a set of tables, to BACPAC.

Mitigation

We can use the parameter /p:TableData=

for the tables the customer wants to export.

```
sqlpackage /a:export /ssn:tcp:<servername>.database.windows.net,1433 /sdn:<database name> /su:<username> /sp:<
```

Issue

Customer is facing an error when exporting to BACPAC and he doesn't have much more information about it.

Mitigation

To collect more diagnostics information about the export process use the parameter /DiagnosticsFile: <Diagnostics file> or /df:<Diagnostics file>

```
sqlpackage /a:export /ssn:tcp:<servername>.database.windows.net,1433 /sdn:<database name> /su:<username> /sp:<
```

Issue

Customer is getting timeouts when exporting to BACPAC.

Investigation/Analysis

Enable the parameter /DiagnosticsFile:<Diagnostics file> or /df:<Diagnostics file> to collect more details

Example of a timeout exception collected from the diagnostics file
Exception: System.Data.SqlClient.SqlException (0x80131904): Execution Timeout Expired. The timeout period elapsed prior to completion of the operation or the server is not responding. ---> System.ComponentModel.Win32Exception (0x80004005): The wait operation timed out

Mitigation

Confirm that the SLO of the Azure SQL Database has enought resources and it's not causing throttling.

Increase the values of the following parameters depending on the type of timeout:

- /SourceTimeout:<value in seconds> or /st:<value in seconds> - Timeout for establishing a connection
- /p:CommandTimeout=<value in seconds> - command timeout when executing queries, try 120 or higher
- /p:DatabaseLockTimeout=<value in seconds (-1 to wait indefinitely)> - database lock timeout when executing queries
- /p:LongRunningCommandTimeout=<value in seconds (0 to wait indefinitely)> - long running command timeout when executing queries

```
sqlpackage /a:export /ssn:tcp:<servername>.database.windows.net,1433 /sdn:<database name> /su:<username> /sp:<
```

Issue

Customer if facing issues when extracting the schema to export to BACPAC and it can't find a reason for the issue.

Investigation/Analysis

Enable the parameter /DiagnosticsFile:<Diagnostics file> or /df:<Diagnostics file> to collect more details

Mitigation

Instead of exporting a BACPAC, try extracting the schema without verifying it and extract the data. PS: The parameters used on the previous issues can also be used when extracting to DACPAC, like TableData, LongRunningCommandTimeout, ...

```
sqlpackage /a:extract /ssn:tcp:<servername>.database.windows.net,1433 /sdn:<database name> /su:<username> /sp:
```

Root Cause Classification

Cases resolved by this TSG should be coded to the following root cause:
Azure SQL DB v2\Import/Export\Service Issue\ExportLongRunning

How good have you found this content?