• Use a clustered index with non-null values on all large tables. Without clustered indexes, an

is not null and its value has good distribution. For details, see DBCC SHOW_STATISTICS.

Azure SQL Managed Instance does not currently support exporting a database to a BACPAC file

using the Azure portal or Azure PowerShell. To export a managed instance into a BACPAC file, use

• For larger databases, BACPAC export/import may take a long time, and may fail for various reasons.

BACPACs are not intended to be used for backup and restore operations. Azure automatically creates backups for every user database. For details, see business continuity overview and SQL Database

Exporting a BACPAC of a database from Azure SQL Managed Instance using the Azure portal is not

Machines processing import/export requests submitted through the Azure portal or PowerShell need to store the BACPAC file as well as temporary files generated by the Data-Tier Application Framework

is not enough space on the disk. In this case, the workaround is to run SqlPackage on a machine

1. To export a database using the Azure portal \(\text{\sigma} \), open the page for your database and select **Export** on

TEXPORT Set server firewall Delete 🔑 Connect with... 🗸 🔊 Feedback

Server name Elastic pool

with enough local disk space. We encourage using SQLPackage to import/export databases larger

MySampleDatabase (mydocsamplesqlserver/MySampleDatabase) 🖈 🖈

: Ready

🗋 Copy ಶ Restore

Resource group (move) : AzureSQLSample

(DacFX). The disk space required varies significantly among databases with the same size and can require disk space up to three times the size of the database. Machines running the import/export request only have 450GB local disk space. As a result, some requests may fail with the error There

export may fail if it takes longer than 6-12 hours. This is because the export service needs to complete a table scan to try to export entire table. A good way to determine if your tables are

optimized for export is to run DBCC SHOW_STATISTICS and make sure that the RANGE_HI_KEY

• Temporarily increase your compute size.

Cease all read and write activity during the export.

SQL Server Management Studio (SSMS) or SQLPackage.

Import and Export using Private Link is in preview.

The Azure portal

currently supported. See Considerations.

than 150GB to avoid this issue.

the toolbar.

Search (Ctrl+/)

Activity log

Use private link (preview)

Select storage

Authentication type

Active Directory

yourAdmin

*Password

3. Select **OK**.

Authentication:

extension.

Storage (Premium not supported) *

Active Directory admin username *

SQLPackage utility

Azure Data Studio

supported. See Considerations.

[Console]::Write("Exporting")

① Note

backups.

① Note

① Note

2. Specify the BACPAC filename, select an existing Azure storage account and container for the export, and then provide the appropriate credentials for access to the source database. A SQL Server admin login is needed here even if you are the Azure admin, as being an Azure admin does not equate to having admin permissions in Azure SQL Database or Azure SQL Managed Instance.

Home > SQL databases > MySampleDatabase (mydocsamplesqlserver/MySampleDatabase) > Export database ...

MySampleDatabase

File name *

MySampleDatabase-2022-9-8-12-27

Subscription *

environments. You can run multiple SqlPackage commands in parallel for subsets of tables to speed up import/export operations.

To export a database in SQL Database using the SQLPackage command-line utility, see Export parameters and properties. The SQLPackage utility is available for Windows, macOS, and Linux.

This example shows how to export a database using SqlPackage with Active Directory Universal

We recommend the use of the SQLPackage utility for scale and performance in most production

4. To monitor the progress of the export operation, open the page for the server containing the

database being exported. Under Data management, select Import/Export history.

Azure Data Studio is a free, open-source tool and is available for Windows, Mac, and Linux. The "SQL Server dacpac" extension provides a wizard interface to SqlPackage operations including export and

import. See the extension's documentation page for more information on installing and using the

The newest versions of SQL Server Management Studio provide a wizard to export a database in Azure

SQL Database or a SQL Managed Instance database to a BACPAC file. See the Export a Data-tier

SqlPackage /a:Export /tf:testExport.BACPAC /scs:"Data Source=apptestserver.database.w

Application. PowerShell

SQL Server Management Studio (SSMS)

Use the New-AzSqlDatabaseExport cmdlet to submit an export database request to the Azure SQL Database service. Depending on the size of your database, the export operation may take some time to complete.

Exporting a BACPAC of a database from Azure SQL Managed Instance using PowerShell is not currently

-DatabaseName \$DatabaseName -StorageKeytype \$StorageKeytype -StorageKey \$StorageKey -AdministratorLogin \$creds.UserName -AdministratorLoginPassword \$creds.Password

To check the status of the export request, use the Get-AzSqlDatabaseImportExportStatus cmdlet. Running this cmdlet immediately after the request usually returns Status: InProgress. When you see Status: Succeeded the export is complete.

\$exportRequest = New-AzSqlDatabaseExport -ResourceGroupName \$ResourceGroupName -Serve

while (\$exportStatus.Status -eq "InProgress")
{
 Start-Sleep -s 10
 \$exportStatus = Get-AzSqlDatabaseImportExportStatus -OperationStatusLink \$exportR
 [Console]::Write(".")
}
[Console]::WriteLine("")
\$exportStatus

Use the Database Operations - Cancel API or the PowerShell Stop-AzSqlDatabaseActivity command to

\$exportStatus = Get-AzSqlDatabaseImportExportStatus -OperationStatusLink \$exportReque

Stop-AzSqlDatabaseActivity -ResourceGroupName \$ResourceGroupName -ServerName \$ServerN

① Note

retention.

database.

Cancel the export request

cancel an export request. Here is an example PowerShell command:

To cancel export operation you will need to have one of the following roles:

• The SQL DB Contributor role or

Next steps

• To learn about long-term backup retention of a single database and pooled databases as an alternative to exporting a database for archive purposes, see Long-term backup retention. You can use SQL Agent jobs to schedule copy-only database backups as an alternative to long-term backup

• A custom Azure RBAC role with Microsoft.Sql/servers/databases/operations permission

To learn about exporting a BACPAC from a SQL Server database, see Export a Data-tier Application
To learn about using the Data Migration Service to migrate a database, see Migrate from SQL Server to Azure SQL Database offline using DMS.

• If you are exporting from SQL Server as a prelude to migration to Azure SQL Database, see Migrate

To learn about importing a BACPAC to a SQL Server database, see Import a BACPAC to a SQL Server

Storage Security Guide.

To learn how to manage and share storage keys and shared access signatures securely, see Azure

Recommended content

Create a transactionally consistent copy of an existing database in Azure SQL Database on either the same server

or a different server. Import or export an Azure SQL Database without allowing Azure services to access the server. -

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a SQL Server database to Azure SQL Database.

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Create a new database in Azure SQL Database or Azure SQL Managed Instance from a .bacpac file.

Import and export of a database takes a long time - Azure SQL Database

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