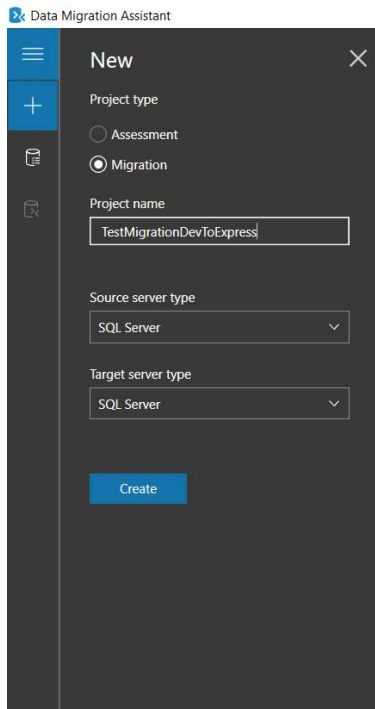
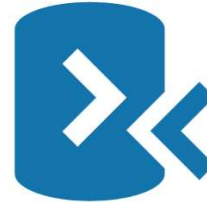


1. Create new migration project and choose project type as Migration



The screenshot shows the 'New' project dialog in the Data Migration Assistant. The 'Project type' section has 'Migration' selected. The 'Project name' field contains 'TestMigrationDevToExpress'. Both 'Source server type' and 'Target server type' are set to 'SQL Server'. A 'Create' button is at the bottom.

Welcome to Data Migration Assistant
Version: 5.6.5445.3

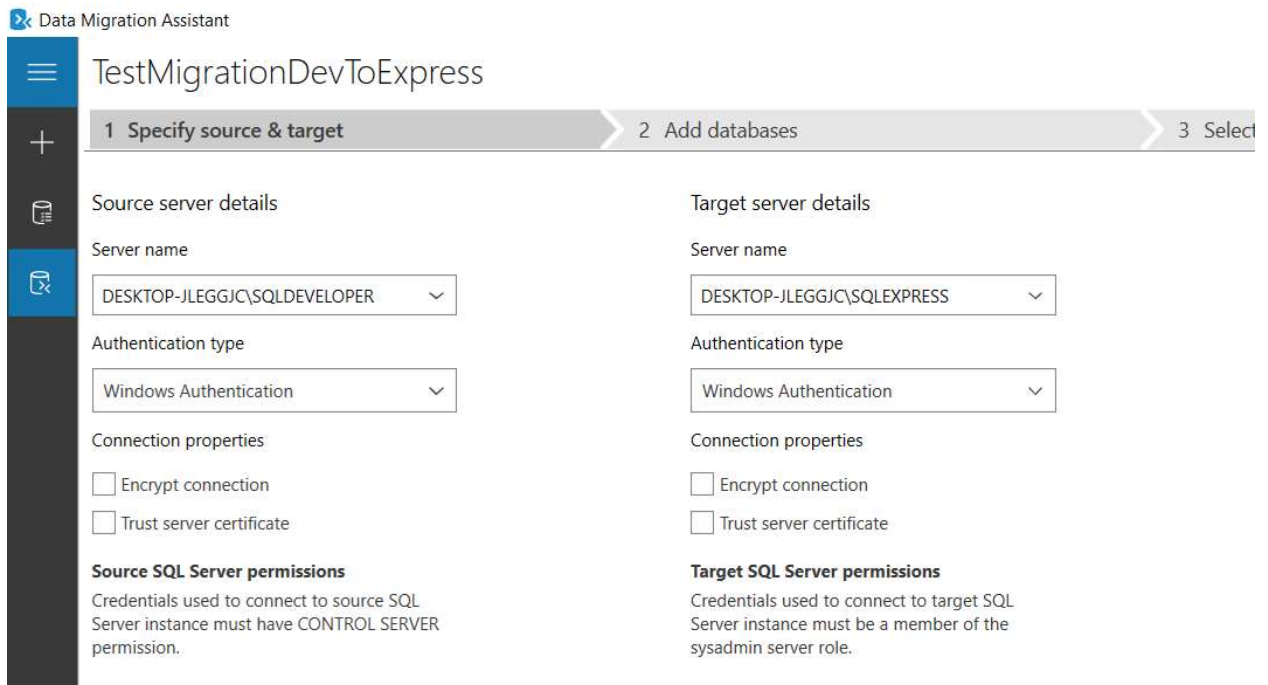


Did you know:

Azure Migrate can now discover and assess your SQL Server data estate running on VMware? Check for Azure SQL readiness, get recommendations, deployment types, and monthly cost estimates. Learn more: <https://aka.ms/dma-azmigrate-sql-migration>

Azure Data Studio offers an enhanced experience for assessing and migrating SQL Server databases to Azure SQL Managed Instance or SQL Server on Azure Virtual Machine? Learn more: <https://aka.ms/dma-ads-sql-migration>

2. Click Create button. After that please specify source and target server



The screenshot shows the 'Specify source & target' step in the Data Migration Assistant. The 'Source server details' section includes 'Server name' (DESKTOP-JLEGGJC\SQLDEVELOPER), 'Authentication type' (Windows Authentication), and 'Connection properties' (Encrypt connection and Trust server certificate). The 'Target server details' section includes 'Server name' (DESKTOP-JLEGGJC\SQLEXPRESS), 'Authentication type' (Windows Authentication), and 'Connection properties' (Encrypt connection and Trust server certificate). Both sections also have a 'Source SQL Server permissions' and 'Target SQL Server permissions' section, stating that the credentials must have CONTROL SERVER permission.

TestMigrationDevToExpress

Delete Migration

1 Specify source & target2 Add databases3 Select logins4 View results

Source server details

Server name

DESKTOP-ILEGGIC\SQLDEVELOPER

Authentication type

Windows Authentication

Connection properties

☐ Encrypt connection

☐ Trust server certificate

Source SQL Server permissions

Credentials used to connect to source SQL Server instance must have CONTROL SERVER permission.

Target server details

Server name

DESKTOP-ILEGGIC\SQLEXPRESS

Authentication type

Windows Authentication

Connection properties

☐ Encrypt connection

☐ Trust server certificate

Target SQL Server permissions

Credentials used to connect to target SQL Server instance must be a member of the sysadmin server role.

Next

- Click Next button to specify the Shared location and to modify the data and log file's location if you need to but you can leave these data and log file location on default values. Also, you can choose which databases to migrate. Put checks to those you want to migrate.

TestMigrationDevToExpress

1 Specify source & target



2 Add databases

Source server

DESKTOP-JLEGGJC\SQLDEVELOPER

SQL Server 2019

Target server

DESKTOP-JLEGGJC\SQLEXPRESS

SQL Server 2019

☒ **DESKTOP-JLEGGJC\SQLD... (2)**

☒ AdventureWorks2019

☐ SSISDB

DESKTOP-JLEGGJC\SQLDEVELOPER

Shared location accessible by source and target servers for backup operation*

D:\Azure\SQL Server Migration\DMABackup

☐ Copy the database backups to a different location that the target server can read and restore from

Specify the location to restore data files on the target server

D:\Microsoft SQL Server\MSSQL15.SQLEXPRESS\MSS

Specify the location to restore log files on the target server

D:\Microsoft SQL Server\MSSQL15.SQLEXPRESS\MSS

Data Migration Assistant

TestMigrationDevToExpress

1 Specify source & target ✓ 2 Add databases 3 Select logins 4 View results

Source server
DESKTOP-JLEGGJC\SQLDEVELOPER
SQL Server 2019

Target server
DESKTOP-JLEGGJC\SQLEXPRESS
SQL Server 2019

☒ **DESKTOP-JLEGGJC\SQLD... (2)**

☒ AdventureWorks2019

☐ SSISDB

DESKTOP-JLEGGJC\SQLDEVELOPER

Shared location accessible by source and target servers for backup operation*

D:\Azure\SQL Server Migration\DMABackup

☐ Copy the database backups to a different location that the target server can read and restore from

Specify the location to restore data files on the target server

D:\Microsoft SQL Server\MSSQL15.SQLEXPRESS\MSS

Specify the location to restore log files on the target server

D:\Microsoft SQL Server\MSSQL15.SQLEXPRESS\MSS

***Backup folder permissions**
Service account running source SQL Server instance must have write privileges on the network location.
Service account running target SQL Server instance must have read privileges on the network location.

Back Next

- Click Next button to proceed in naming destination database. Since AdventureWorks2019 already exists as well in the target server then we need to rename the database name including data files and log files. Note that I added DMA to the database name and to Data and Log File Name in order to fulfill the migration from SQL Server Dev Edition to SQL Server Express Edition.

Data Migration Assistant

There are validation errors in some databases. Please select the flagged databases, fix the issues and go to the next step.

TestMigrationDevToExpress

1 Specify source & target ✓ 2 Add databases 3 Select logins

Source server: DESKTOP-JLEGGJC\SQLEVELOPER, SQL Server 2019

Target server: DESKTOP-JLEGGJC\SQLEXPRESS, SQL Server 2019

☒ DESKTOP-JLEGGJC\SQLE... (2)

- ☒ AdventureWorks2019
- ☐ SSISDB

AdventureWorks2019 Compat 140 Size 336.00 MB

Target database

Provide target database name

AdventureWorks2019

The database name you specified already exists. Try a different name.

Data Migration Assistant

There are validation errors in some databases. Please select the flagged databases, fix the issues and go to the next step.

TestMigrationDevToExpress

1 Specify source & target ✓ 2 Add databases 3 Select logins 4 View results

Source server: DESKTOP-JLEGGJC\SQLEVELOPER, SQL Server 2019

Target server: DESKTOP-JLEGGJC\SQLEXPRESS, SQL Server 2019

☒ DESKTOP-JLEGGJC\SQLE... (2)

- ☒ AdventureWorks2019
- ☐ SSISDB

AdventureWorks2019 Compat 140 Size 336.00 MB

Provide target database name

AdventureWorksDMA2019

Share location options

Shared location accessible by source and target servers for backup operation

D:\Azure\SQL Server Migration\DMABackup

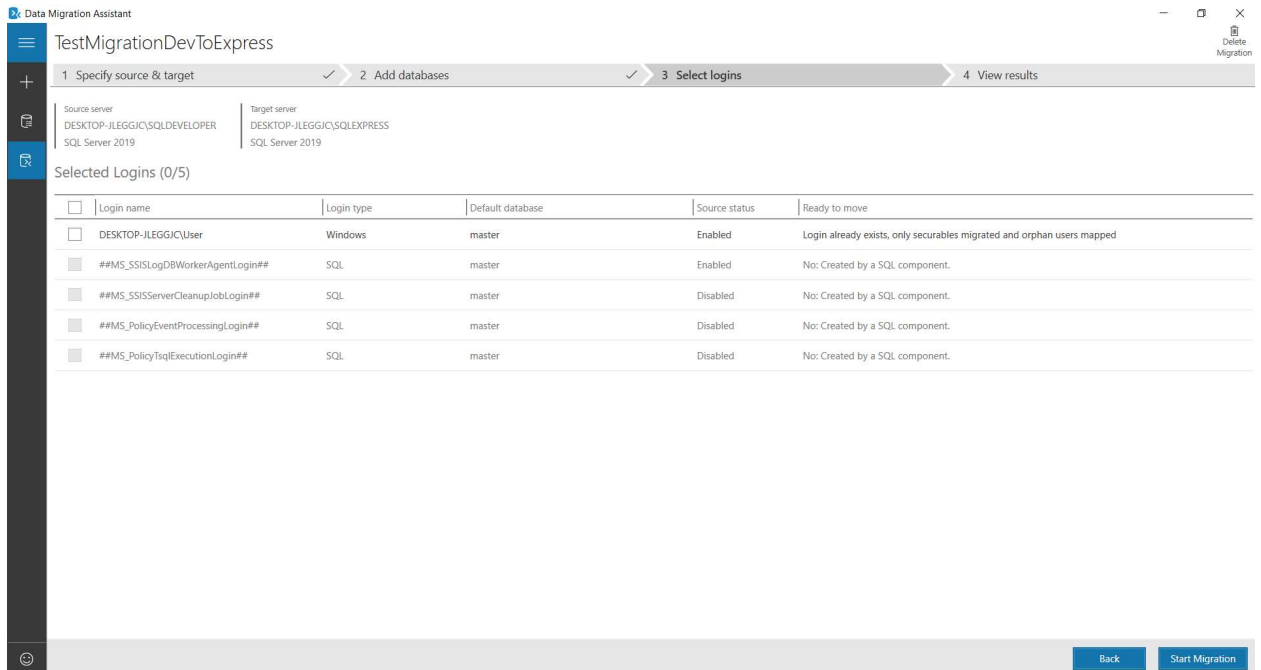
☐ Copy the database backups to a different location that the target server can read and restore from

Restore options

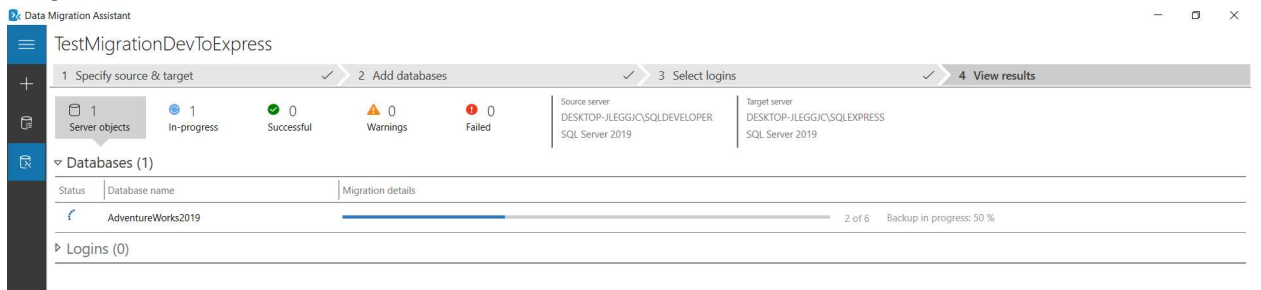
Logical file name	File type	Original file name	Restore as on target server
Data (1)			
AdventureWorks2017	Rows	D:\Microsoft SQL Server Developer\MSSQL15.SQLEVELOPER\MSSQL\DATA\Adventure...	I:\Microsoft SQL Server\MSSQL15.SQLEXPRESS\MSSQL\DATA\AdventureWorksDMA2...
Log (1)			
AdventureWorks2017_Log	Log	D:\Microsoft SQL Server Developer\MSSQL15.SQLEVELOPER\MSSQL\DATA\Adventure...	I:\Microsoft SQL Server\MSSQL15.SQLEXPRESS\MSSQL\DATA\AdventureWorksDMA2...
Filestream (0)			
Fulltext (0)			

Back Next

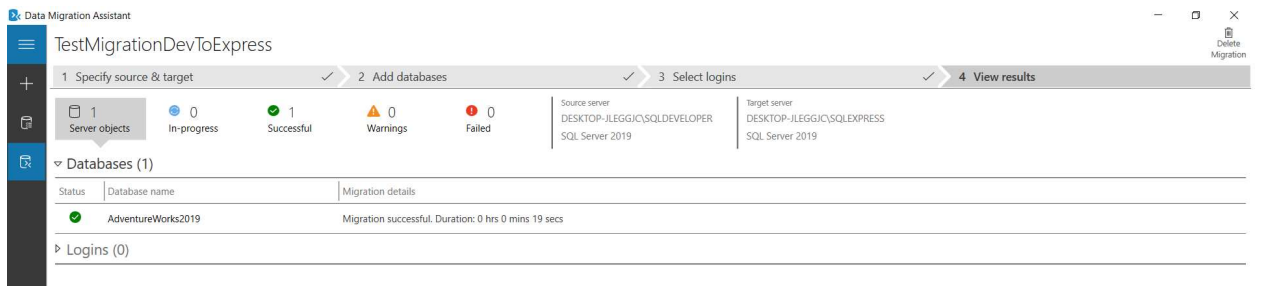
- Click Next button. You can leave the default values and do not select any logins.

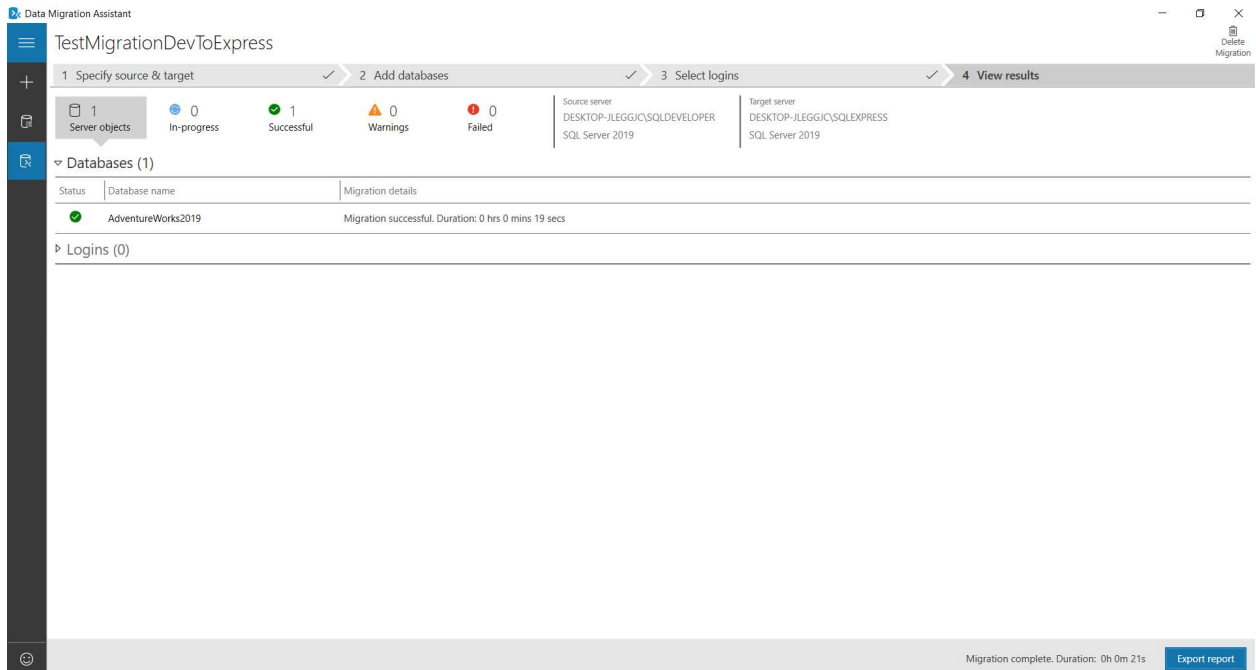


6. Click Start Migration button. You can see the progress of the migration until the result
- Progress:**



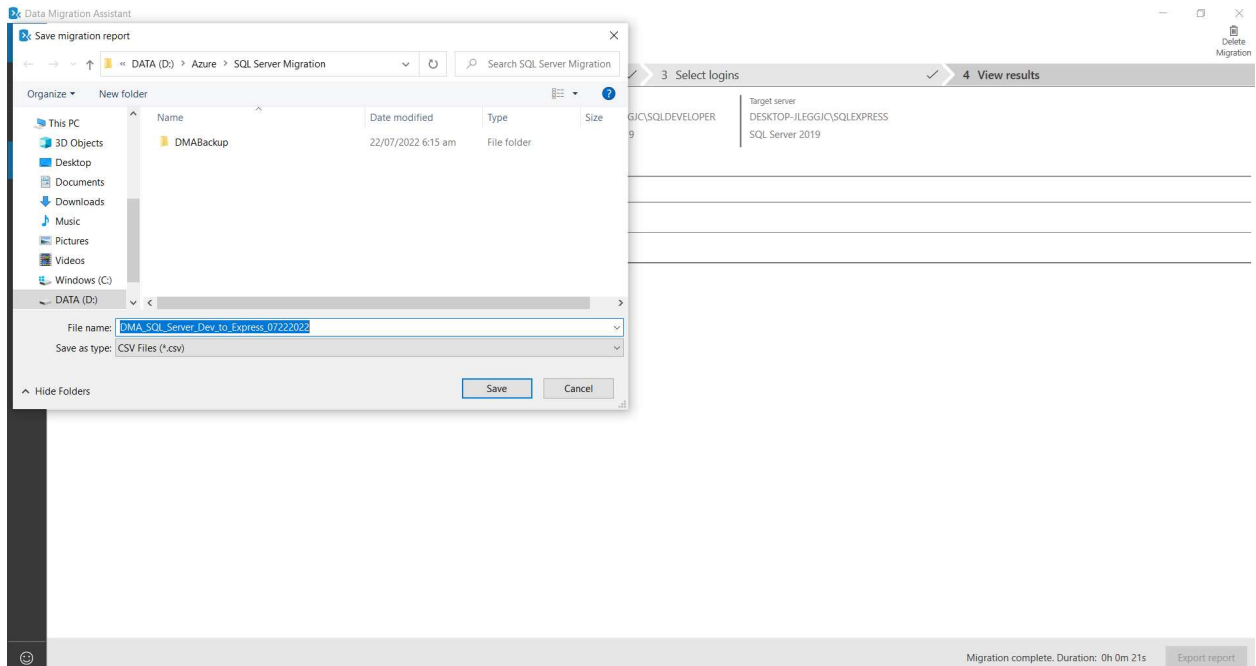
Result:





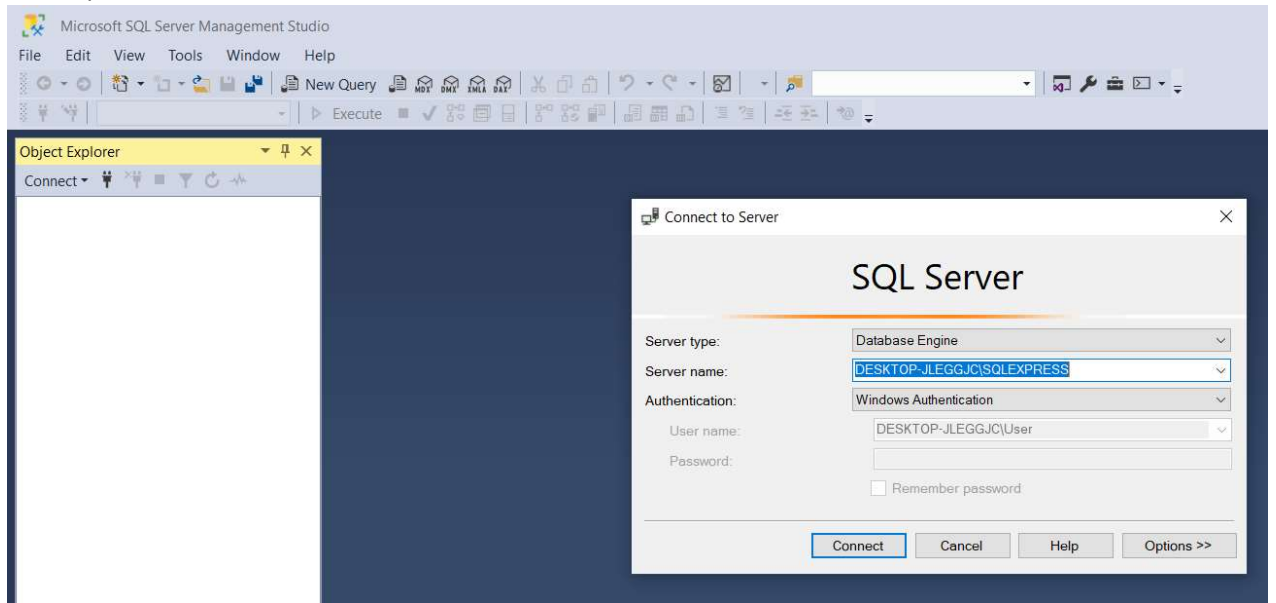
7. Then click Export report button and specify the file in the target folder location and click Save button to generate the migration report. An excel report file will be generated. Take a look at the generated report.

Specify Target Location:



Excel File migration report:

SQL Express Connection Details:



After connecting to SQL Express Edition Server, you can see the migrated database using Data Migration Assistant Tool:

