Creating Database Assessment Report Using Data Migration Assistant



Michael J. Teske
AUTHOR EVANGELIST, PLURALSIGHT
@teskemj becausesecurity.com

Module Overview



Install Data Migration Assistant

Identify supported database platforms

Create assessment report for MS SQL targeting Azure SQL DB



Exercise Files





Data Migration Assistant (DMA)



Assess on-premises SQL instances



Discover issues that can affect upgrading on-premises SQL Servers



Discover new features in target SQL platform that can benefit after upgrade



Migrate on-premises SQL instance to a modern SQL instance either on-prem or in an Azure virtual machine



Supported SQL Versions

Sources

SQL Server 2005

SQL Server 2008

SQL Server 2008 R2

SQL Server 2012

SQL Server 2014

SQL Server 2016

SQL Server 2017 on Windows

Target

SQL Server 2012

SQL Server 2014

SQL Server 2016

SQL Server 2017 on Windows and Linux

Azure SQL Database (not managed instance)

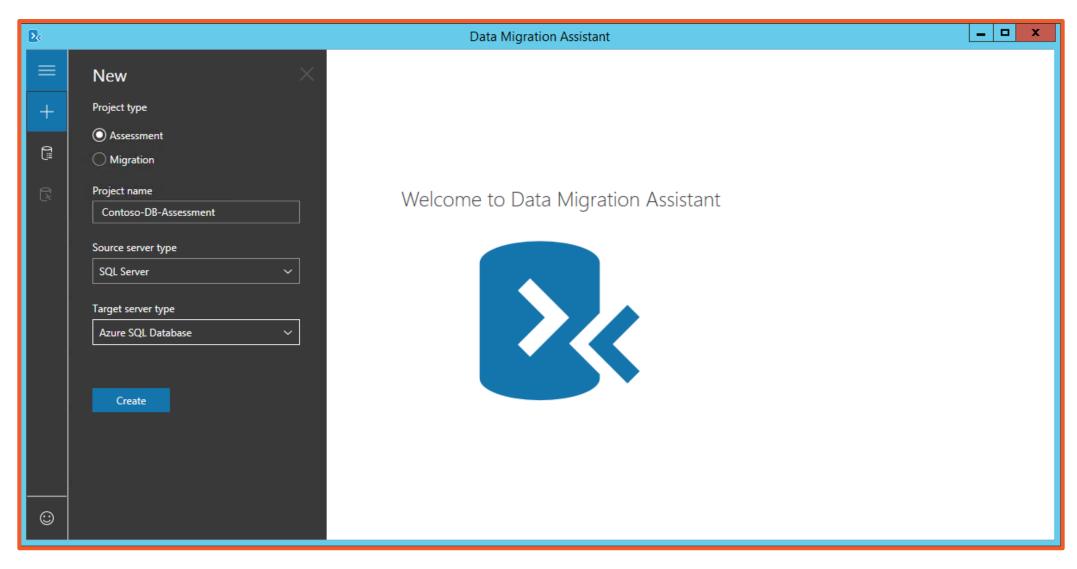


DMA Best Practices-Assessment

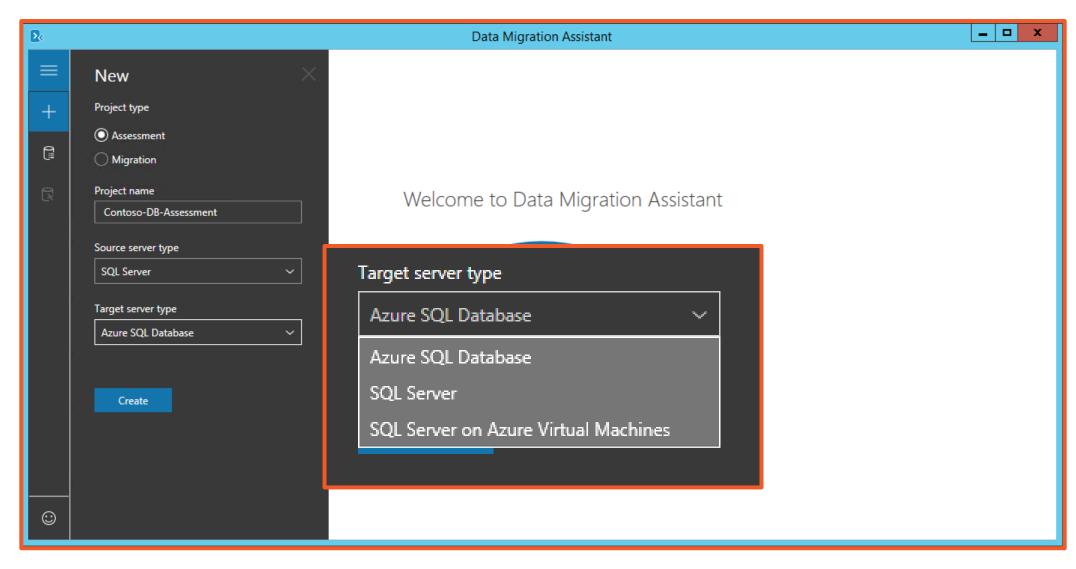
Run assessments on production DBs during non-peak times

Run <u>Compatibility issues</u> and <u>New feature recommendations</u> assessments separately

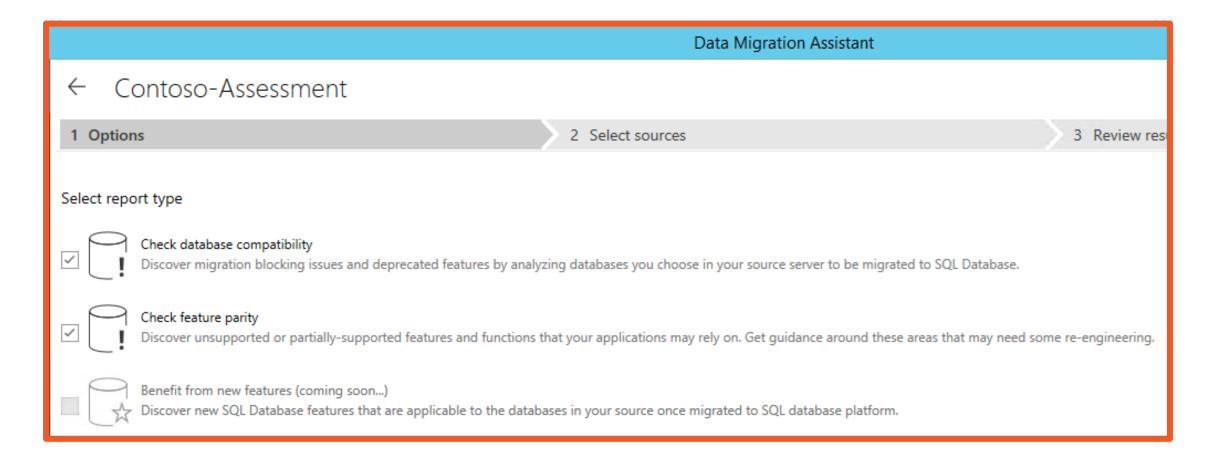




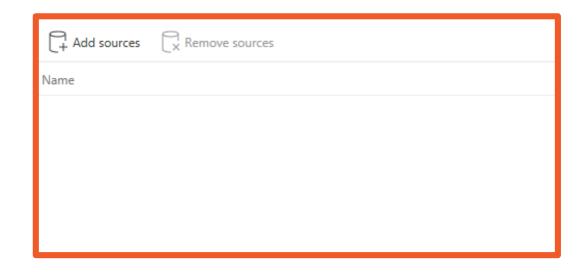


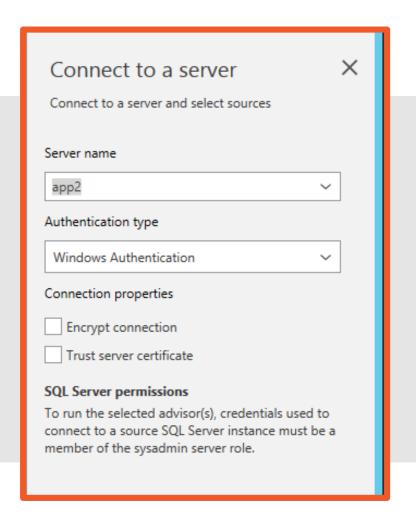




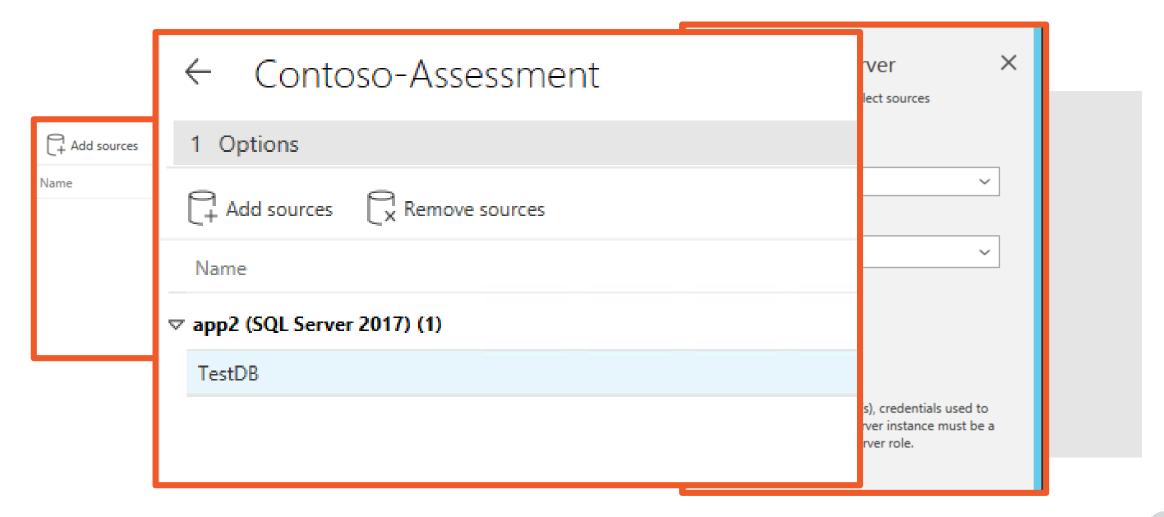






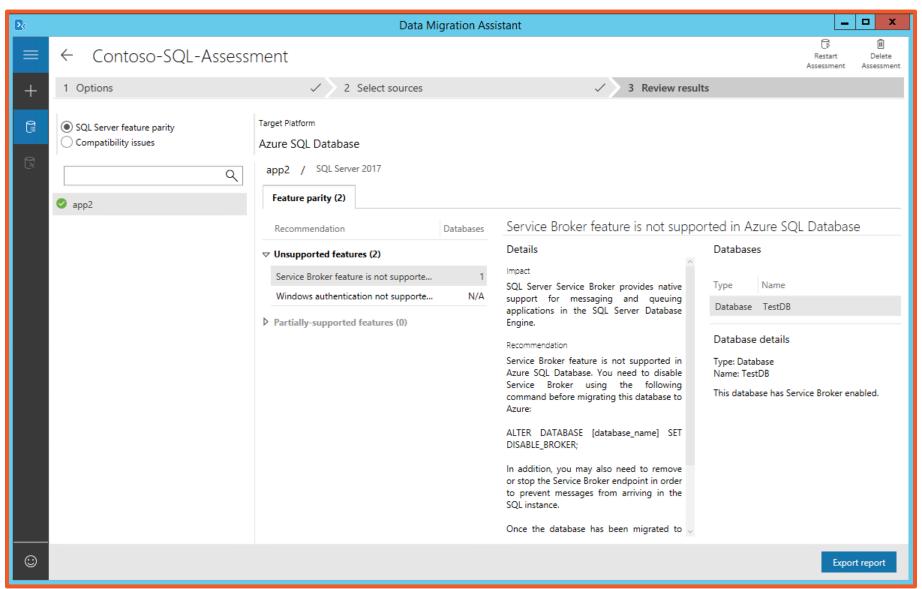








Assessment Results



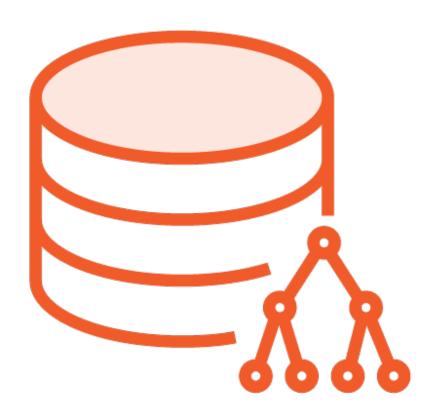


Demo



Install Data Migration Assistant
Create an assessment





Use Azure Database Migration Services for large migrations

- Leverages DMA for assessments
- Creates an instance in the Azure portal
- Supports for Azure SQL DB as well as Azure SQL Managed Instance



Summary



Installed Data Migration Assistant

- Lightweight tool to perform on-premises database assessments
- Can migrate on-premises instances to other on-premises or to Azure SQL database/SQL Server on Azure VM

Use Azure Data Migration Services for larger migrations

 Supports migration to Azure SQL DB as well as Azure SQL Managed Instance

