Migrating SQL workloads to Azure

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Instructions:

Please keep your microphones on mute during the entire session
Type in your questions in chat window, it will be answered towards the end of our session

Migrating SQL Workloads to Azure

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Azure Database Migration Services

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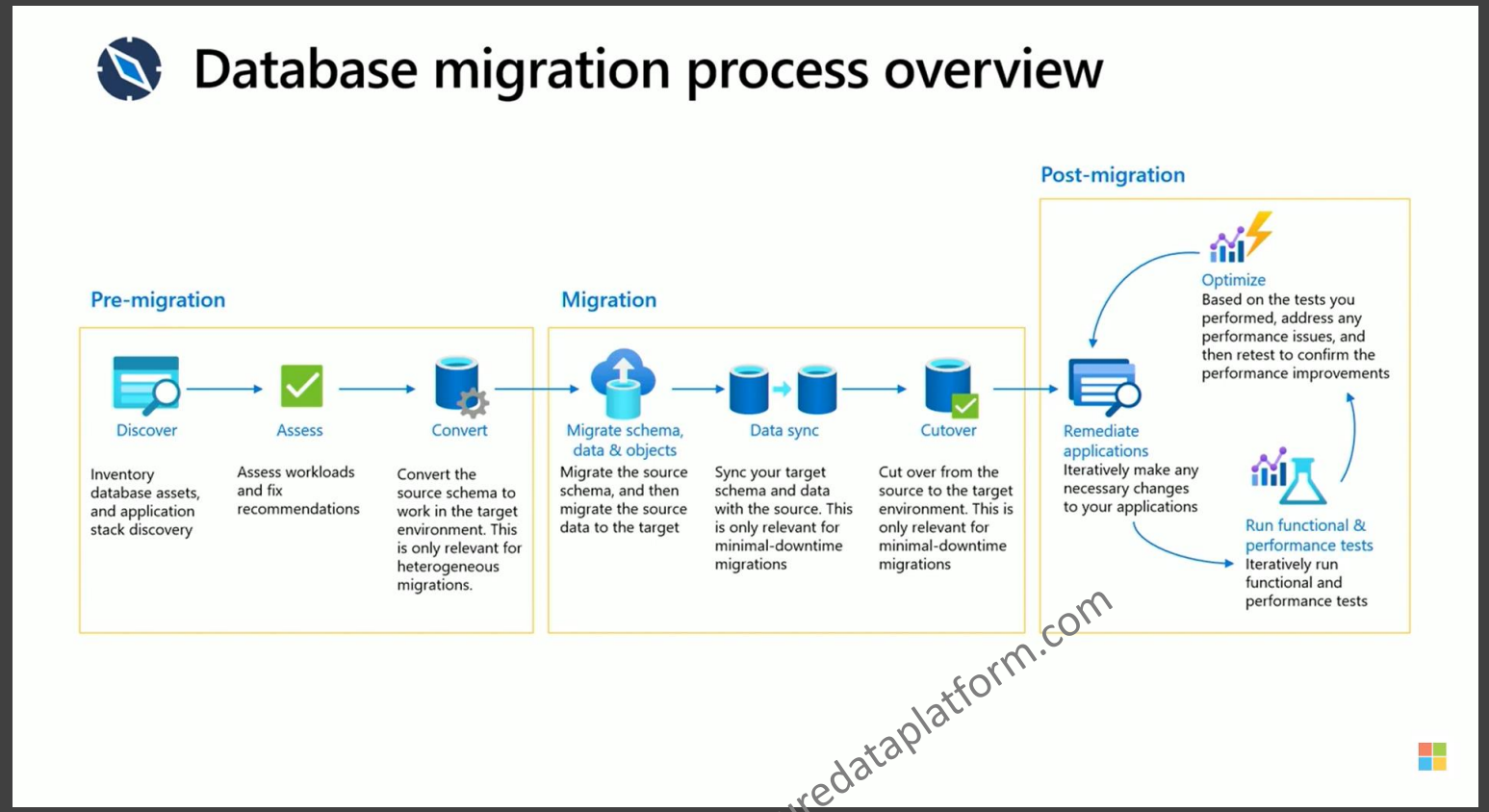
Database Migration Process Overview

Introduction



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Pre-Migration

Discovery
The first stage of the migration roadmap is Initiate and discover. In this first stage, the goal is to establish three
things:

- The inventory of your data estate
- Application database dependencies
- What databases move together

Assessment
We now know what workloads we're dealing with, where they are, how big they are and what they're used for. This data obtained from the initiate and discover phase can now be used as input into the second phase, assessment.
The data will need to be compiled and analyzed to achieve our goals for this phase, which is to identify:

- The migration blockers
- Breaking changes
- Features to leverage
- Effort involved to fix issues

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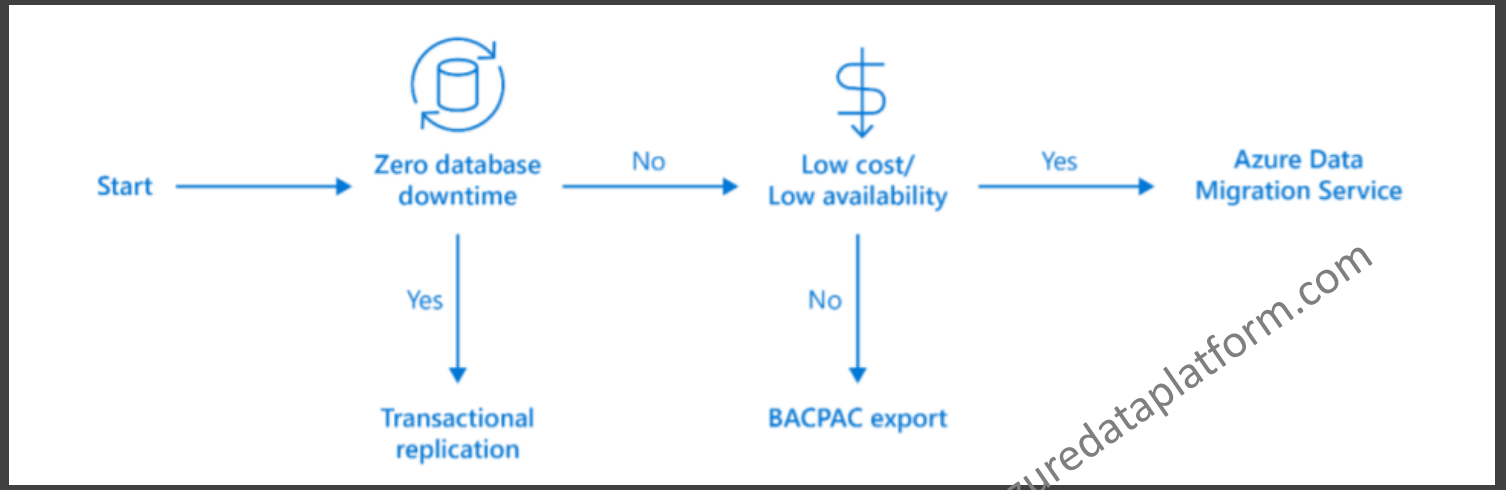
Migration tool selection

The migration tools employed to move data to Azure will be selected based on the criticality of the workload and
how long the application can be offline during the switchover.



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Migration Steps

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- Test database for issues
- Repeat issue fixes until the database is fixed
- Re-write third-party applications for the cloud as needed
- Test third-party applications
- Take old databases and application offline
- Create new disaster recovery and maintenance plans

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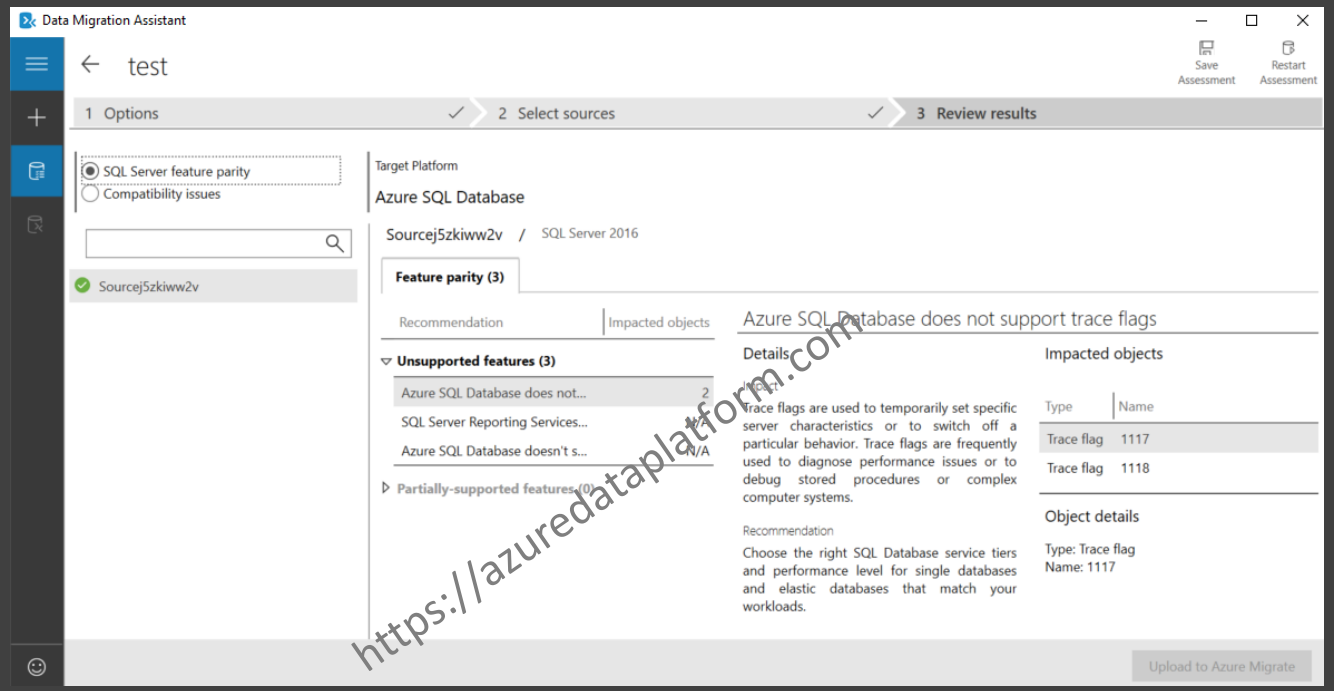
Microsoft Data Migration Assistant

The Data Migration Assistant (DMA) helps you upgrade to a modern data platform by detecting compatibility issues that can impact database functionality in your new version of SQL Server or Azure SQL Database. DMA recommends performance and reliability improvements for your target environment and allows you to move your schema, data, and uncontained objects from your source server to your target server.



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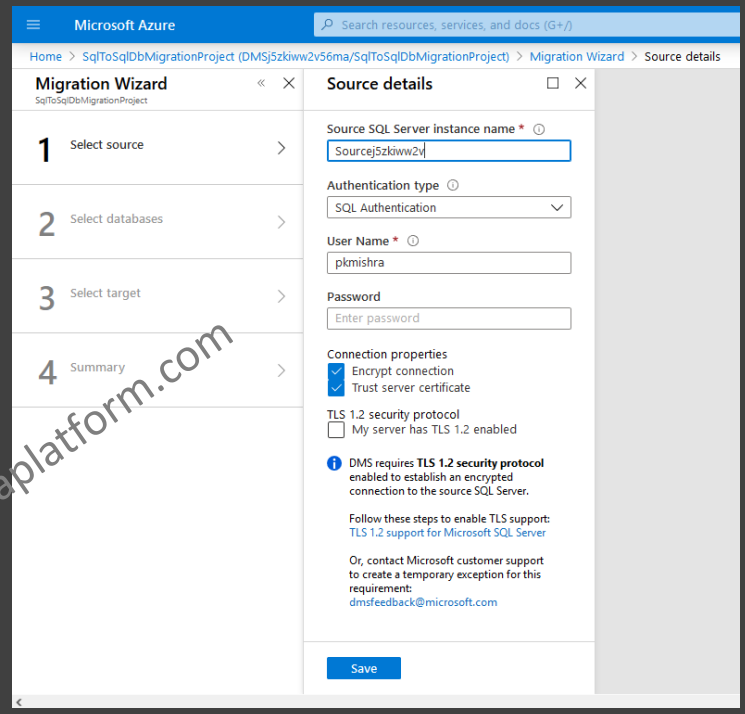
Azure Database Migration Services

Azure Database Migration Service enables seamless migrations from multiple database sources to Azure Data platforms with minimal downtime. The service uses the Data Migration Assistant to generate assessment reports that provide recommendations to guide you through the changes required before performing a migration. When you're ready to begin the migration process, Azure Database Migration Service performs all the required steps.

Service Mode

- Azure
- Hybrid(preview)



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https://azure.microsoft.com/en-us/resources/templates/101-azure-database-migration-service/

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