

Modernize on-premises SQL Server databases to Azure using Azure Database Migration Server (DMS)

IMPT NOTICE:

- •If you choose to participate in this session using Microsoft Teams, your name, email address, phone number, and/or title may be viewable by other session participants.
- •Please note that the training will not and cannot be recorded in alignment with Microsoft's policies



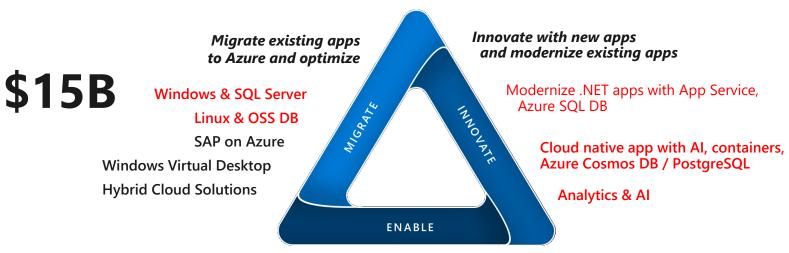
Check In



Top of Mind for Data and Al Solutions: FY21 Sales Priorities

FY21 sales and partner priorities

Applications & Infrastructure, Data & AI



Specialized Areas

Applications: IoT, Mixed Reality, Gaming

Infrastructure: Azure VMware Solutions, HPC, Advanced Networking, Azure Sentinel

Enable customers for successful cloud use

Cloud adoption Framework | Well-Architected | Skills building Developer engagement | DevOps with GitHub

We lead with outcomes-driven conversations that give our solutions greater industry relevance

Data and Al Industry Support

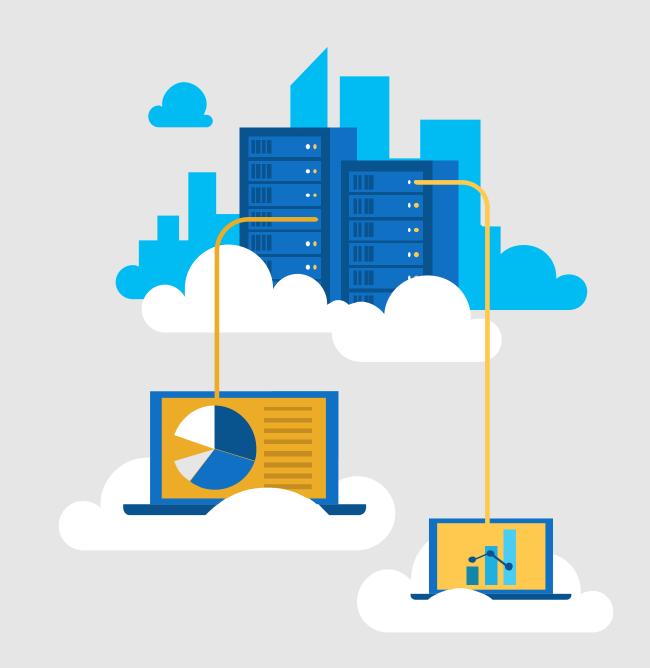
Pop Quiz

Do you know when SQL Server 2008/R2 reaching EOS?

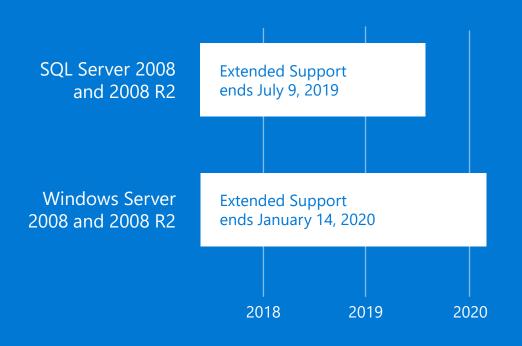
Already reached

July 2019

Jan 2020



Deadline to act before end of support



Impact of end of support



No security updates

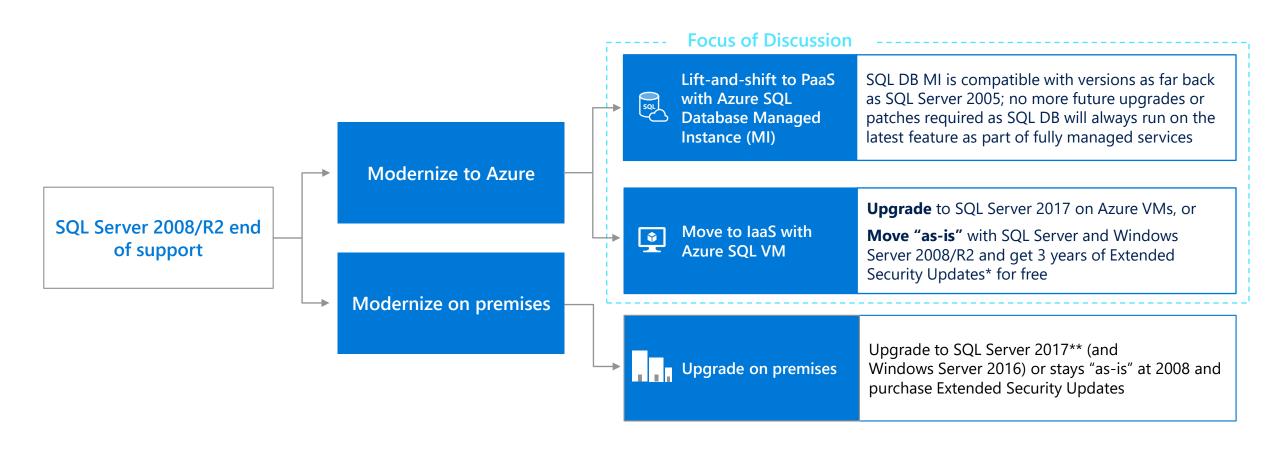


Compliance concerns



Missed innovation opportunities

End of Support – What are the Options?



4 cloud path migration approaches



Migrate applications as-is for the benefits of the cloud without the risks or costs of making code changes



Refactor

Take advantage of infrastructure as a service (laaS) and platform as a service (PaaS) with no wholesale code changes



Rearchitect

Modernize your app into a resilient, highly scalable, independently deployable architecture



Rebuild

Rebuild an application from scratch using cloud-native technologies

Pop Quiz 2

What are top migration approaches customers taking?



Rehost

Refactor

Rearchitect

Rebuild

Migration journey



Assess

Involve stakeholders
Calculate your TCO
Discover and evaluate apps



Migrate

Select a migration strategy
Apply the migration strategy
Find recommended tools



Optimize

Analyze your costs
Save with offers
Reinvest to do more



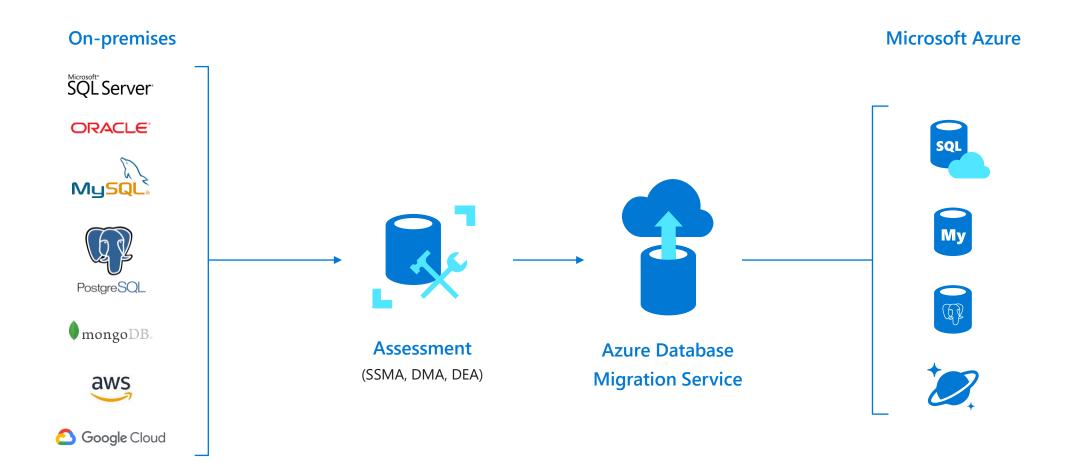
Secure and manage

Security
Data protection
Monitoring

On-premises

Azure

Tools and services for your migration journey





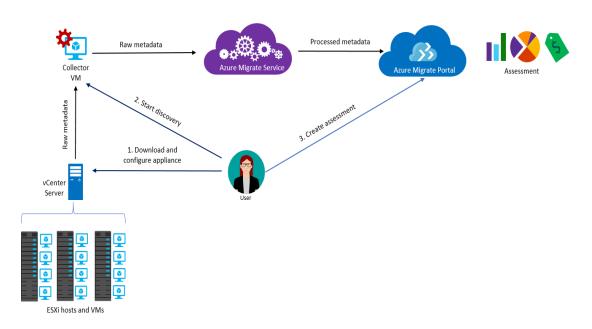
Migration Demo - Key Takeaways

1. Data Migration Assistant helps you upgrade to a modern data platform by

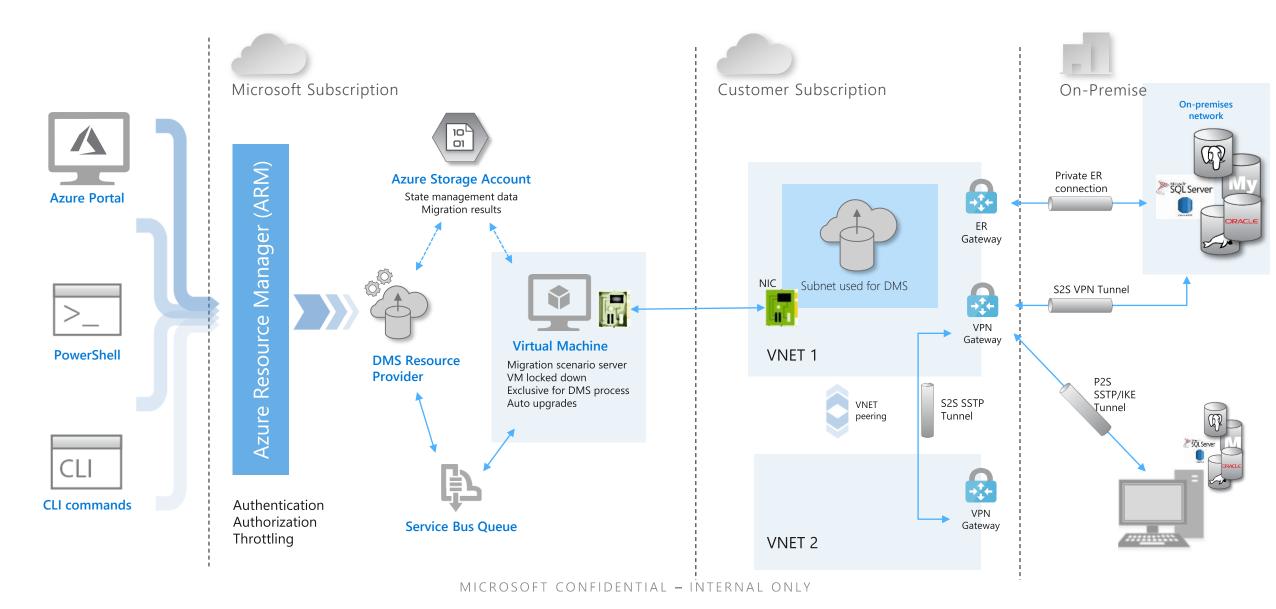
- Discovering, detecting and mitigating potential migration blockers using DMA
- Creating recommendations based on parity and compatibility issues
- Making recommendations to improve performance

2. Azure Database Migration Service

- Brings tools together to streamline the migration process
- Database validation post-migration
- Support multiple data platform technologies
- Near zero downtime



Azure Database Migration Service



Online migration with backup and restore technology

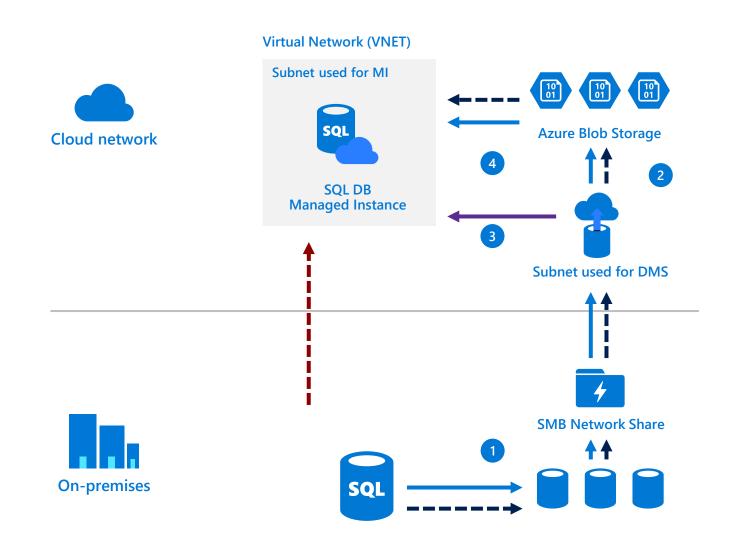
SQL Server to Azure SQL Database Managed Instance example

- Provide existing backups in network share
- DMS upload backup files to Azure storage
- 3 DMS initiate the migration to Azure SQL MI
- 4 Full backup restored and Transaction log backups continuously applied until cutover

Provide Tail-Log backup, initiate cutover in DMS and change the application connection strings

Legend

- ➤ Full Database backup files
- ► Transaction log backup files
- Site to site connectivity (VPN or ExpressRoute)



Online migration using logical replication

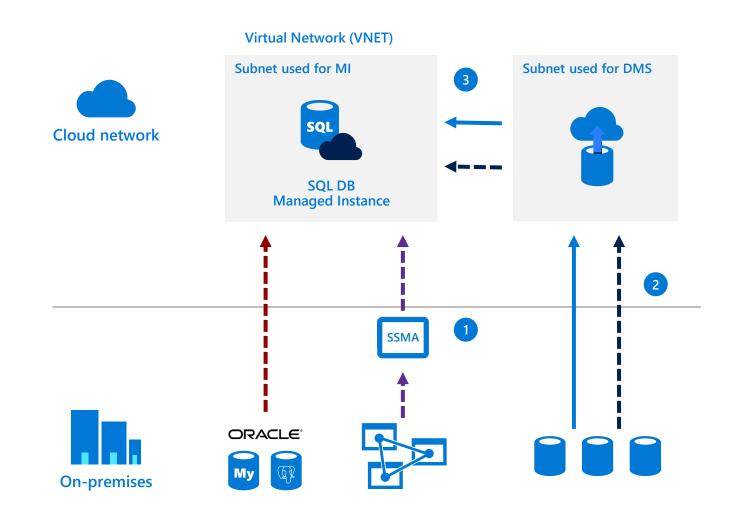
Competitive, MySQL and PostgreSQL migration example

- Convert database schema using SSMA
- 2 DMS reads existing data and tracks changes
- 3 DMS applies all data changes until cutover

Convert schema with SSMA, setup replication through DMS, initiate cutover and change the application connection strings

Legend

- ➤ Initial data load
- ► Incremental data changes
- Site to site connectivity (VPN or ExpressRoute)
- Database schema objects



Migration resources

Azure Database Migration Service (Azure DMS)

Designed as a seamless, end-to-end solution for moving on-premises SQL Server databases to the cloud.

https://aka.ms/AzureDms

Database Migration Guide

Review all your options for an upgrade from on premise SQL Server versions to Azure SQL Database.

http://aka.ms/datamigration

Azure Migrate

Easily discover, assess and migrate your on-premises virtual machines to Azure.

https://azure.microsoft.com/en-us/services/azure-migrate

Data Migration Assistant (DMA)

Prepare your upgrade to a modern data platform by reviewing compatibility with your new SQL Server.

https://aka.ms/dma

SQL Server Migration Assistant (SSMA)

Automate database migrations to SQL Server from Microsoft Access, DB2, MySQL, Oracle, and SAP ASE.

https://aka.ms/get-ssma

Database Experimentation Assistant (DEA)

An A/B testing solution for changes in SQL Server environments, such as upgrades or new indexes.

https://aka.ms/dea-tool

Microsoft Data Migration Blog

The official team web log for Azure Data Magnet's Database Migration Team

https://aka.ms/dm blog

For More Information Check out our YouTube Channel, where you can review videos and tutorials on all our migration products. https://aka.ms/DMYouTube

Feedback Please!







Thank you!