

DP - 3001 : Migrate SQL Server workloads to Azure SQL

Course Outline

Module 1: Design a SQL Server Migration Strategy

- Explain what data platform modernization is.
- Review the stages of a data migration.
- Recommend when to use an Azure data platform technology.
- Explore the cost savings of moving SQL workloads to Azure.

Module 2: Assess SQL Server Databases for Migration to Azure SQL

- Understand common compatibility issues and blockers that may prevent migration to Azure SQL.
- Discover the tools and options available for assessing SQL Server databases for migration.
- Use the Azure migration extension for Azure Data Studio to assess SQL Server databases.
- Use Azure Migrate and other tools to assess SQL Server databases.

Module 3: Deploy IaaS Solutions with Azure SQL

- Explore the basics of SQL Server in an Infrastructure as a Service (IaaS) offering.
- Learn the available options for provisioning and deployment.
- Deploy SQL Server into an Azure Virtual Machine.

Module 4: Deploy PaaS Solutions with Azure SQL

- Understand SQL Server in a Platform as a Service (PaaS) offering.
- Understand PaaS provisioning and deployment options.
- Understand elastic pools.
- Examine Azure SQL Managed Instances.
- Explore Azure SQL Edge.
- Configure a template for PaaS deployment.

Module 5: Migrate SQL Server Workloads to Azure Virtual Machine

- Understand the importance of careful planning for a successful migration of SQL Server workloads to Azure Virtual Machines.
- Migrate databases using the Azure SQL Migration extension for Azure Data Studio and track database migration activities to SQL Server on Azure Virtual Machines.
- Explore various methods for migrating SQL Server databases to Azure Virtual Machines.

Module 6: Migrate SQL Server Workloads to Azure SQL Database

- Explore the advantages, capabilities, and migration possibilities offered by Azure SQL Database.
- Migrate databases using the Azure SQL Migration extension for Azure Data Studio and track database migration activities.
- Use transactional replication as an online method to migrate to Azure SQL Database.

- Explore various methods for migrating SQL Server databases to Azure SQL Database.

Module 7: Migrate SQL Server Workloads to Azure SQL Managed Instance

- Explore the advantages, capabilities, and migration possibilities offered by Azure SQL Managed Instance.
- Learn how Log Replay Service works to migrate to Azure SQL Managed Instance.
- Understand how Managed Instance link feature works in a migration scenario.
- Load and move data to and from Azure SQL Managed Instance.
- Explore various methods for migrating SQL Server databases to Azure SQL Managed Instance.

Module 8: Perform Post-Migration Tasks on Azure SQL

- Implement compliance controls for sensitive data.
- Monitor database performance in Azure SQL.
- Configure high availability and disaster recovery in Azure SQL.
- Automate database tasks for scalability.