DP-050T00: Migrate SQL Workloads to Azure

Course Content

Course Description:

In this course, the students will explore the objectives of data platform modernization and how it is suitable for given business requirements. They will also explore each stage of the data platform modernization process and define what tasks are involved at each stage, such as the assessment and planning phase. Students will also learn the available migration tools and how they are suitable for each stage of the data migration process. The student will learn how to migrate to the three target platforms for SQL based workloads: Azure Virtual Machines, Azure SQL Databases and Azure SQL Database Managed Instances. The student will learn the benefits and limitations of each target platform and how they can be used to fulfil both business and technical requirements for modern SQL workloads. The student will explore the changes that may need to be made to existing SQL based applications, so that they can make best use of modern data platforms in Azure.

At Course Completion:

After competing this course, student will be able to:

- Understand Data Platform Modernization
- Choose the right tools for Data Migration
- Migrate SQL Workloads to Azure Virtual Machines
- Migrate SQL Workloads to Azure SQL Databases
- Migrate SQL Workloads to Azure SQL Database Managed Instance

Prerequisites:

In addition to their professional experience in SQL Server, students who take this training should have technical knowledge equivalent to the following courses:

- Azure fundamentals

Target Student:

The audience for this course is data professionals and data architects who want to learn about migrating data platform technologies that exist on Microsoft Azure and how existing SQL based workloads can be migrated and modernized. The secondary audience for this course is individuals who manage data platforms or develop applications that deliver content from the existing data platform technologies.

DP-050T00: Migrate SQL Workloads to Azure

Topics:

Module 1: Introducing Data Platform Modernization
- Understand Data Platform Modernization
- Understanding the stages of migration
- Data Migration Paths
- Lab : Introducing Data Platform Modernization
- Understand Data Platform Modernization
- Understand the Stages of Migration
- Data Migration Paths

Module 2: Choose the right tools for Data Migration
- Discover the Database Migration Guide
- Build your data estate inventory using Map Toolkit
- Identify Migration candidates using Data Migration Assistant
- Evaluate a Data workload using Database Experimentation Assistant
- Data Migration using Azure Database Migration Service
- Migrate non-SQL Server workloads to Azure using SQL Migration Assistant
- Lab : Choose the right Tools for Data Migration
- Identify Migration candidates using Data Migration Assistant
- Evaluate a Data workload using Database Experimentation Assistant

Module 3: Migrating SQL Workloads to Azure Virtual Machines
- Considerations of SQL Server to Azure VM Migrations
- SQL Workloads to Azure VM Migration Options
- Implementing High Availability and Disaster Recovery Scenarios
- Lab : Migrating SQL Workloads to Azure Virtual Machines

Module 4: Migrate SQL Workloads to Azure SQL Databases
- Choose the right SQL Server Instance option in Azure
- Migrate SQL Server to Azure SQL DB offline
- Migrate SQL Server to Azure SQL DB online
- Load and Move data to Azure SQL Database
- Lab : Migrate SQL Workloads to Azure SQL Databases

Module 5: Migrate SQL Workloads to Azure SQL Database Managed Instance
- Evaluate migration scenarios to SQL Database Managed Instance
- Migrate to SQL Database Managed instance
- Load and Move data to SQL Database Managed instance
- Application Configuration and Optimization
- Lab : Migrate SQL Workloads to Azure SQL Database Managed Instance