

DP-050T00: Migrate SQL Workloads to Azure Training

Duration: 2 Days

Course Content:

DP-050T00: Migrate SQL Workloads to Azure Training is developed to help professionals discover the objective of data platform modernization and how it is appropriate for business needs. This technical course provides comprehensive information on each level of the data platform modernization process. Individuals will develop a better understanding of the available migration tools and how they are suitable for every level of the data migration process. This training program is perfect for data architects and professionals who want to gain more information about migrating data platform technologies existing on Microsoft Azure. Individuals who handle developing applications and manage data platforms can also benefit from the course to extend their knowledge base and build their credibility in the market.

This training is designed based on the objectives of the course variant DP-050T00-A.

Who should attend this course?

The primary audience for the DP-050T00 Training is data architects and professionals who want to learn about how existing SQL based workloads can be modernized and migrated and about the migration of data platform technologies existing on Microsoft Azure. However, the course is also suited for professionals who develop apps or manage data platforms that deliver content from existing data platform technologies.

What you will learn

- Understanding Data Platform Modernization
- Choosing the right tools for Data Migration
- Migration of SQL Workloads to Azure Virtual Machines
- Migration of SQL Workloads to Azure SQL Database Managed Instance
- Migration of SQL Workloads to Azure SQL Databases

Curriculum

Module 1: Introducing Data Platform Modernization

In this module, the students will learn the purpose of Data Platform Modernization and they will outline the benefits that data platform modernization can bring to an organization. The students will then learn the various stages of a data platform migration projects to understand what is involve in each stage to maximise the chances of a successful Data Platform Modernization Projects. Finally, students will explore the various data migration paths to understand how each approach is different and why you would choose one migration approach over another.

Lesson

- Understand Data Platform Modernization
- Understand the stages of migration
- Understand data migration technologies

Lab: Introducing Data Platform Modernization

- Understand Data Platform Modernization
- Understand the stages of migration
- Data migration paths

After completing this module, students will be able to:

- Understand Data Platform Modernization
- Understand the stages of migration
- Understand data migration paths

Module 2: Choose the right tools for data migration

In this module, the student will be introduced to the Data Migration Guide as a starting point for the source of information that your organization should use for step by step guidance for modernizing your existing data platform. They will then learn the value of the Microsoft Assessment and Planning Toolkit to help discover the data assets that currently exist in their environments. The students will then learn the tools that can be used to help them to assess for compatibility or workload issues using both the Data Migration and Data Experimentation Assistant. The students will then see how the Azure Database Migration Service can be used to aid online migration of databases to reduce the amount of downtime. Finally, an overview of the SQL Migration assistant is provided to show student how to migrate no-SQL Server workloads.

Lesson

- Discover the Database Migration Guide
- Identify migration candidates using Data Migration Assistant
- Evaluate 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

After completing this module, students will be able to:

- Identify migration candidates using Data Migration Assistant
- Evaluate a data workload using Database Experimentation Assistant

Module 3: Migrate SQL workloads to Azure Virtual Machines

In this module, the student will learn how to migrate on-premises SQL workloads to Azure Virtual Machines that are running SQL Server. Students will first explore the migration consideration when migrating from on-premises SQL Server to Azure Virtual Machines and the benefits they can gain by performing the migration. They will then learn the different migration options that can be performed when migrating to Azure Virtual Machines. This will include a look at the benefits and limitations of each approach. The students will finally look at SQL Server workloads that include High Availability and Disaster Recovery to ensure service continuity.

Lesson

- Considerations of SQL Server to Azure VM migrations
- SQL workloads to Azure VM migration options
- Implement high availability and disaster recovery scenarios

Lab: Migrate SQL Workloads to Azure Virtual Machines

After completing this module, students will be able to:

- Considerations of SQL Server to Azure VM Migrations

- SQL Workloads to Azure VM Migration Options
- Implementing High Availability and Disaster Recovery Scenarios

Module 4: Migrate SQL workloads to Azure SQL Databases

In this module, the students will explore what is Azure SQL Database and why it is a suitable target for SQL based workloads. It teaches students how to choose the appropriate SQL Server instance option and why it can fulfil business requirements for data platform modernization. The modules will also show students how they can perform both offline and online migrations to Azure SQL Database. By doing so, they can assess which method maybe appropriate to their scenarios at work. It will also show the tools that can be used to enable the data migration process. Finally, they will explore the methods that can be used to load data into Azure SQL Database from an on-premises instance.

Lesson

- Considerations for migrating to Azure SQL Database
- Migrate to Azure SQL Database
- Service continuity of Azure SQL Database

Lab: Migrate SQL workloads to Azure SQL Databases

After completing this module, students will be able to:

- Choose the right SQL Server Instance option in Azure
- Migrate SQL Server to Azure SQL DB online
- Load and move data to Azure SQL Database

Module 5: Migrate SQL workloads to Azure SQL Database managed instance

This module will explore what is an Azure SQL Database Managed Instance and why it is a suitable target for SQL based workloads. They also learn how Azure SQL Database Managed Instance can fulfil the business requirements for data platform modernization. The students will then explore the tools that can be used to enable the data migration process to Azure SQL Database Managed Instance. They will then explore the methods and tools that can be used to load data into Azure SQL Database Managed Instance from an on-premises instance. Finally, they will learn some of the changes that may need to be made to existing SQL based applications so that they can use Azure SQL Database Managed Instance.

Lesson

- What is Azure SQL Database managed instance
- Migrate to Azure SQL Database managed instance
- Synchronize data to Azure SQL Database managed instance

Lab: Migrate SQL workloads to Azure SQL Database managed instance

After completing this module, students will be able to:

- Evaluate migration scenarios to SQL Database managed instance
- Migrate to SQL Database managed instance
- Load and move data to SQL Database managed instance

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