

DP 3001- Migrate SQL Server Workload To Azure SQL



Days: 1

Prerequisites: Experience with SQL Server databases. Knowledge of SQL Server editions and versions. Basic knowledge of security concepts like identities and permissions. Experience using the Azure portal to create resources and set permissions.

Description: This learning path prepares you for the task of migrating SQL Server workloads to Azure SQL Database.

You'll learn how to assess SQL Server components and compatibility for migration using the Azure SQL Migration Extension and Database Migration Assistant. This training guides you through the process of provisioning and configuring Azure SQL Database resources. You gain hands-on experience in choosing the best migration option to meet business requirements for downtime, handling migration state, and monitoring database migration.

Additionally, you'll also learn to perform post-migration tasks like disaster recovery and monitoring for Azure SQL Database. These skills are essential for ensuring a smooth, efficient transition to Azure SQL Database, and maintaining its operation post-migration.

Course Objectives:

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

OUTLINE:

LESSON 1 - DISCOVER DEVOPS

- What is DevOps?
- Explore DevOps culture
- Explore DevOps goals and benefits
- Explore DevOps application lifecycle
- Module assessment

- Explore Continuous Integration
- Explore shift-left testing
- Explore shift-left security
- Implement flow of work with GitHub
- Module assessment

LESSON 2 - PLAN WITH DEVOPS

- Foster DevOps culture
- What is Agile?
- Explore DevOps practices
- Plan with GitHub
- Agile plan and management using GitHub
- Module assessment

LESSON 4 - DELIVER WITH DEVOPS

- Explore continuous delivery
- Explore Infrastructure as Code
- Explore progressive exposure techniques
- Explore continuous delivery with GitHub Actions
- Implement CI/CD with GitHub Actions and IaC with Bicep
- Module assessment

LESSON 3 - DEVELOP WITH DEVOPS

- Explore source control and version control
- Explore version control using Git
- Explore GitHub flow

LESSON 5 - OPERATE WITH DEVOPS

- Explore operational excellence
- Explore shift-right testing
- Explore observability through performance monitoring

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- Explore observability through security assessment
- Explore resiliency with site reliability engineering
- Improve developer experience with platform engineering
- Enhance workload resiliency Traffic Manager and Azure Chaos Studio
- Module assessment