Course DP-300T00: Administering Microsoft Azure SQL Solutions

4 Days

Instructor-Led Training

Intermediate

About

This course provides students with the knowledge and skills to administer a SQL Server database infrastructure for cloud, on-premises and hybrid relational databases and who work with the Microsoft PaaS relational database offerings. Additionally, it will be of use to individuals who develop applications that deliver content from SQL-based relational databases.

Audience Profile

The audience for this course is data professionals managing data and databases who want to learn about administering the data platform technologies that are available on Microsoft Azure. This course is also valuable for data architects and application developers who need to understand what technologies are available for the data platform with Azure and how to work with those technologies through applications.

Job role: Database Administrator

Preparation for exam: DP-300

Prerequisites

Successful Azure Database Administrators start this role with professional experience in database management and technical knowledge of cloud technologies.

Specifically:

- Working with, maintaining, and developing with SQL Server.
- Experience with Azure, such as deploying and managing resources.

At a minimum, you should know the information in the following online training before attending the course:

- AZ-900 Azure Fundamentals
- DP-900 Azure Data Fundamentals

Course Outline

Module 1: Prepare to maintain SQL databases on Azure.

Module 2: Deploy IaaS solutions with Azure SQL

Module 3: Deploy PaaS solutions with Azure SQL

Module 4: Evaluate strategies for migrating to Azure SQL

Module 5: Migrate SQL workloads to Azure SQL databases

Module 6: Migrate SQL workloads to Azure Managed Instances

Module 7: Configure database authentication and authorization

Module 8: Protect data in-transit and at rest

Module 9: Implement compliance controls for sensitive data

Module 10: Describe performance monitoring

Module 11: Configure SQL Server resources for optimal performance

Module 12: Configure databases for optimal performance

Module 13: Explore query performance optimization

Module 14: Evaluate performance improvements.

Module 15: Explore performance-based design

Module 16: Automate deployment of database resources

Module 17: Create and manage SQL Agent jobs

Module 18: Manage Azure PaaS tasks using automation

Module 19: Describe high availability and disaster recovery strategies

Module 20: Explore IaaS and PaaS solutions for high availability and disaster recovery

Module 21: Back up and restore databases

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