

Administering Microsoft Azure SQL Solutions

Duration: 4 Days

Course Description:

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.

Target Audience:

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.

Course Outline:

Module 1: Plan and implement data platform resources

Deploy data platform resources in Azure SQL. Explore options for deployment and migration. Calculate resource requirements and create templates

- Prepare to maintain SQL Server-based databases on Azure
- Deploy IaaS solutions with Azure SQL
- Deploy PaaS solutions with Azure SQL
- Migrate SQL Server workloads to Azure SQL Database
- Migrate SQL Server workloads to Azure SQL Managed Instance

Module 2: Implement a secure environment for a database service

Implement SQL Server-based options for authentication and authorization, as well as Azure options for securing Azure SQL databases. Explore encryption, firewalls and advanced threat protection.

- Configure database authentication and authorization
- Protect data in-transit and at rest
- Implement compliance controls for sensitive data

Module 3: Monitor and optimize operational resources in Azure SQL

Configure hardware and server resources for optimum performance after establishing a baseline. Identify sources of performance problems. Troubleshoot using Azure SQL Intelligent Insights.

- Describe performance monitoring
- Configure SQL Server resources for optimal performance
- Configure databases for optimal performance

Module 4: Optimize query performance in Azure SQL

Analyze individual query performance and determine where improvements can be made. Explore performance-related Dynamic Management Objects. Investigate how indexes and database design affect queries.

- Explore query performance optimization
- Explore performance-based database design
- Evaluate performance improvements

Module 5: Automate database tasks for Azure SQL

Scripting repetitive tasks in Azure SQL for regular maintenance jobs and multi-instance administration. Automation of error and resource alerts. Configuration of notifications for failures.

- Automate database deployment
- Create and manage SQL Agent jobs
- Manage Azure PaaS tasks using automation

Module 6: Plan and implement a high availability and disaster recovery environment

Data must be available when needed. Configure, test and manage a solution for high availability and disaster recovery using Azure tools and SQL Server tools.

- Describe high availability and disaster recovery strategies
- Explore IaaS and PaaS solutions for high availability and disaster recovery
- Back up and restore databases

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