

20465CC

Designing a Data Solution with Microsoft SQL Server 2014

5 DAYS

SATV : YES

Course Description

This course describes how to design and monitor high performance, highly available enterprise data solutions with SQL Server 2014. This course focuses on database server infrastructure scenarios, including private, public, and hybrid cloud solutions and high availability techniques.

Course Outline

Module 1: Introduction to Cloud Data Solutions

- Overview of Cloud Computing
- SQL Server in a Private Cloud

Module 2: Introduction to Microsoft Azure

- Microsoft Azure Overview
- Microsoft Azure Storage

Module 3: Microsoft Azure SQL Database

- Introduction to Microsoft Azure SQL Database
- Microsoft Azure SQL Database Security
- Implementing and Managing Databases

Module 4: SQL Server in Microsoft Azure Virtual Machines

- Introduction to Microsoft Azure Virtual Machines
- Microsoft Azure Virtual Machine Connectivity and Security
- Creating Databases in a Microsoft Azure Virtual Machine

Module 5: Introduction to Enterprise Data Architecture

- Considerations for Enterprise Data
- Assessing an Existing Infrastructure

Module 6: Multi-Server Configuration Management

- Policy-Based Management
- Microsoft System Center

Module 7: Monitoring SQL Server 2014 Health

- Introduction to Health Monitoring
- Data Collector
- SQL Server Utility

Module 8: Consolidating Database Workloads with SQL Server 2014

- Considerations for Database Server Consolidation
- Managing Resources in a Consolidated Database Infrastructure

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Module 9: Introduction to High Availability in SQL Server 2014

- High Availability Concepts and Options in SQL Server 2014
- Log Shipping

Module 10: AlwaysOn Availability Groups

- Introduction to AlwaysOn Availability Groups
- Working with AlwaysOn Availability Groups
- Considerations for Using AlwaysOn Availability Groups

Module 11: Planning High Availability and Disaster Recovery

- High Availability and Disaster Recovery with SQL Server 2014
- High Availability and Disaster Recovery for Databases in Microsoft Azure

Module 12: Clustering with Windows Server and SQL Server 2014

- Introduction to Windows Server Failover Clustering
- SQL Server AlwaysOn Failover Cluster Instances

Module 13: Replicating Data

- SQL Server Replication
- Planning Replication