Designing Database Solutions for Microsoft SQL Server 2014

Duration: 3 Days   Course Code: M20465

Overview:

The focus of this three-day instructor-led course is on planning and implementing enterprise database infrastructure solutions by using SQL Server 2014 and other Microsoft technologies. It describes how to consolidate SQL Server workloads and how to plan and implement high availability and disaster recovery solutions. Note: This course is designed for customers who are interested in learning SQL Server 2012 or SQL Server 2014. It covers the new features in SQL Server 2014, but also the important capabilities across the SQL Server data platform.

Target Audience:

This course is intended for database professionals who need who plan, implement, and manage database solutions. Primary responsibilities include: Planning and implementing database infrastructure. Planning and implementing consolidation strategies. Planning and implementing high availability solutions. Planning and implementing disaster recovery solutions.

Objectives:

- Assess an existing enterprise environment.

- Plan and implement Policy-Based Management.

- Describe the considerations for consolidating workloads with SQL Server 2014.

- Describe considerations for including SQL Server 2014 in a private cloud.

Prerequisites:

- At least 2 years' experience of working with relational databases, including:
- Planning and implementing databases
- Managing databases
- Querying with Transact-SQL
- Some basic knowledge of high availability and disaster recovery

Content:

Module 1: Introduction to Enterprise Data Architecture

- Considerations for Enterprise Data
- Assessing an Existing Infrastructure

Module 2: Multi-Server Configuration Management

- Policy-Based Management
- Microsoft System Center
- Lab : Planning and Implementing Policy-Based Management

Module 3: Monitoring SQL Server 2014 Health

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

Module 4: Consolidating Database Workloads with SQL Server 2014

- Considerations for Database Server ConsolidationManaging Resources in a Consolidated Database Infrastructure
- Lab : SQL Server Consolidation

Module 5: Introduction to Cloud Data Solutions

- Overview of Cloud Computing
- SQL Server in a Private Cloud
- Lab : Preparing a SQL Server Installation in a Virtual Machine Template

Module 6: Introduction to High Availability in SQL Server 2014

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

Module 7: Clustering with Windows Server and SQL Server 2014

- Introduction to Windows Server Failover Clustering
- SQL Server AlwaysOn Failover Cluster Instances
- Lab : Implementing an AlwaysOn Failover Cluster Instance

Module 8: AlwaysOn Availability Groups

- Introduction to AlwaysOn Availability Groups
- Working with AlwaysOn Availability Groups
- Considerations for Using AlwaysOn Availability Groups
- Lab : Implementing and Testing an AlwaysOn Availability Group

Module 9: Planning High Availability and Disaster Recovery

- High Availability and Disaster Recovery with SQL Server 2014
- SQL Server High Availability and Disaster Recovery Solutions
- Lab : Planning High Availability and Disaster Recovery

Module 10: Replicating Data

- SQL Server Replication
- Planning Replication
- Lab : Planning and Implementing Replication

Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

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