

Designing Solutions for Microsoft SQL Server 2014

Course: 20465

Course Details

Audience(s): IT Professional(s)

Technology: Microsoft SQL Server 2014

Duration: 24 Hours

ABOUT THIS COURSE

The focus of this twenty four hours 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. This course is also 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.

AUDIENCE PROFILE

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.

Course Content

Module 1: Introduction to Enterprise Data Architecture

Lessons

- Considerations for Enterprise Data
- Assessing an Existing Infrastructure

Lab: Assessing an Existing Enterprise Data Infrastructure

Module 2: Multi-Server Configuration Management

Lessons

- Policy-Based Management
- Microsoft System Center

Lab: Planning and Implementing Policy-Based Management

Module 3: Monitoring SQL Server 2014 Health

Lessons

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

Lab: Monitoring SQL Server Health

Module 4: Consolidating Database Workloads with SQL Server 2014

Lessons

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

Lab: SQL Server Consolidation

Module 5: Introduction to Cloud Data Solutions

Lessons

- 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

Lessons

- 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

Lessons

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

Lab: Implementing an AlwaysOn Failover Cluster Instance

Module 8: AlwaysOn Availability Groups

Lessons

- 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

Lessons

- 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

Lessons

- SQL Server Replication
- Planning Replication

Lab: Planning and Implementing Replication

At This Course Completion

At completing this course the student will be able to:

- 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.