

High Availability with Microsoft SQL Server 2012/2014 (SQHA)

ID SQHA Price on request Duration 3 days

Course Overview

In diesem Seminar lernen Sie die unterschiedlichen Varianten von Hochverfügbarkeiten bei SQL Servern kennen. Sie erfahren, unter welchen Voraussetzungen und bei welchen Erfordernissen, welche Technologien geeignet sind. Anschließend an diesen Kurs sind Sie imstande eine Hochverfügbarkeitslösung zu entwerfen, zu implementieren und zu warten.

Who should attend

Dieser Kurs richtet sich an diejenigen, die für Gestaltung und Umsetzung von Hochverfügbarkeitslösungen für SQL Server 2012 verantwortlich sind.

Prerequisites

Vor der Teilnahme an diesem Kurs ist es empfehlenswert, dass Teilnehmer folgende Fähigkeiten besitzen:

- 1 Jahr SQL Server-Erfahrung (nicht unbedingt SQL Server 2012)
- 1 Jahr Windows Server 2008 (oder höher) Erfahrung
- 1 Jahr Hyper-V-Erfahrung
- 1 Jahr Windows Failover Clustering Erfahrung

Course Content

High Availability Overview

- Defining High Availability
- Achieving High Availability

Overview of Windows Server Failover Clustering

- Failover Clustering Concepts
- Cluster Resources
- Setting up a Windows Failover Cluster
- MSDTC Clustering.

SQL Server 2012 High Availability Overview

- SQL Server 2012 High Availability (HA) Technologies
- High-level Considerations on Technology Choices
- Common Combinations

AlwaysOn Failover Clustering

- SQL Server Failover Clustering - Definitions and History
- SQL Server 2012 Failover Clustering Instance (FCI) Maintaining a SQL Server 2012 FCI
- Multi-Site Failover Clustering

AlwaysOn Availability Groups

- Availability Group Concepts
- Partners and Secondary Servers

Legacy Database Mirroring

- Database Mirroring Overview
- Database Mirroring Architecture
- Enabling Database Mirroring
- Database Mirroring Operations

Legacy Log Shipping

- Log Shipping Overview
- Log Shipping Architecture
- Configuring Log Shipping
- Log Shipping Internals
- Administering Log Shipping

Using Replication for High Availability

- Replication Overview
- Replication Types
- Replication Architecture
- Configuring Replication
- Replication Monitoring

High Availability Solutions Interoperability

- AlwaysOn Failover Cluster Instances with AlwaysOn Availability Groups
- AlwaysOn Failover Cluster Instances with Legacy Database Mirroring
- AlwaysOn Availability Groups with Replication

High Availability with Virtualization

- Hyper-V in Windows Server 2008 R2
- Improvements in Windows Server 2012
- SQL Server Hyper-V Support
- Hyper-V HA Considerations (Using Cluster Shared Volumes for High Availability, Live Migration, Using Guest Clustering)

Meeting Your Availability Goals

- Technology Choices
- Servicing for Availability
- Ongoing Maintenance (Indexing, Partitioning)
- Processes and Procedures for Availability (Rule n.1, Understanding the Technologies Used, Understanding the Procedures and Escalation Paths, Planned Downtime)

About Fast Lane



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