

Building and Managing High Availability Solutions With
SQL Server

Paris (France)

2 - 6 December 2024

UK Traininig

PARTNER



Building and Managing High Availability Solutions With SQL Server

Code: IT28 From: 2 - 6 December 2024 City: Paris (France) Fees: 4900 Pound

Introduction

In this course you will learn basic aspects of High Availability as a Recovery Point Objective, Recovery Time Objective, measuring HA in percentage of time etc. Then you will get a brief overview of HA features introduced in Windows Server 2012 R2/2016, which are relevant for SQL Server solutions - domain/domainless WFCS, cluster shared volumes, scale-out file services, storage spaces, storage replica, Hyper-V, etc. From the SQL Server perspective, the course will focus on the most popular HA/DR features - Failover Clustering and Availability Groups. Details on how to design highly available SQL Server solution from the perspective of storage; Quorum and Failover Cluster Instance. From a practical point of view, you will learn how to maintain and troubleshoot an FCI solution

In the Availability Group part, you will learn details on how to design AG solution with custom requirements; quorum configurations and AG configuration sync/async, read only routing, read only load balancing, direct seeding, hybrid AG, etc.. Similar to Failover Cluster Instances, in the practical part you will learn how to monitor an AG solution. In addition, along the course you will also learn on interoperability of another SQL Server technologies with SQL Server HA - Integration Services, Analysis Services and Reporting Services.

Course Objectives of Building and Managing High Availability Solutions With SQL Server

- Build a reliable High Availability solution with Windows Server 2012 R2/2016 and SQL Server 2014/2016
- Manage a High Availability solution with Windows Server 2012 R2/2016 and SQL Server 2014/2016
- Build Disaster Recovery Solutions
- Troubleshoot problems with High Availability in SQL Server 2016 and 2014

Building and Managing High Availability Solutions With SQL Server Course Outlines

Day 1:

Introduction to High Availability

- Basic aspects of High Availability
- Windows Server 2016 High Availability Features Overview
- Overview of HA features in Windows Server 2016
- SQL Server 2016 High Availability Features Overview
- Failover Cluster Instances
- Availability Group



- Log Shipping

Day 2:

Windows Server 2016 Failover Clustering

- Installation
- Storage configuration
- The configuration of which
- Maintenance
- Patching/Upgrading
- Adding/Removing nodes to/from cluster
- Monitoring
- Troubleshooting

Day 3:

SQL Server 2016 Failover Clustering Instance

- SQL Server FCI configuration
- Active/Active
- Active/Passive
- MS DTC
- Maintenance
- Patching/Upgrading
- Adding/Removing SQL Server to/from cluster
- Monitoring
- Troubleshooting

Day 4:

SQL Server 2016 Availability Groups

- SQL Server AG configuration
- Sync/Async
- Read Only Routing and Load Balancing
- Direct seeding
- Distributed AG
- Maintenance
- Patching/Upgrading
- Adding/Removing files to/from database in AG
- Adding/Removing database to/from AG
- Monitoring
- Troubleshooting

Day 5:

SQL Server Interoperability

- Interoperability
- with Integration Services
- with Analysis Services
- with Reporting Services



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