SQL Server Training: Mastering Always-On Technologies (SQLAO, 4 jours)

Description

The course Mastering Always-On Technologies (SQL Server Training) allows database professionals to design, implement and monitor a robust database infrastructure that can serve clients 24/7. The training introduces the concepts of always on infrastructure design with SQL Server and discusses the full implementation & maintenance of the design with SQL Server. The course includes topology design, installation & configuration in a SQL Server Always-On context.

Tarifs

- Tarification: \$3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

High Availability and Disaster Recovery Concepts
What is High Availability and Disaster Recovery
Levels of Availability
Recovery Objectives
Proactive Maintenance
High Availability and Disaster Recovery technologies
Availability Groups
Always On Cluster Failover
SQL Failover Cluster Instance to Stand-Alone and vice versa
Database Mirroring
Replication
Implementing a Cluster
Overview of Failover Cluster
Creating a Cluster
Installing the Failover Cluster
Benefits and Limitations of Failover Cluster
Implementing Always On Failover Cluster Instance
Building an Instance
Create Failure Cluster Using Cluster Manager
Create Failover Cluster Using PowerShell
Workgroup and Multiple Domain Clusters
Implementing AlwaysOn Availability Groups
High Availability with AlwaysOn Availability Groups
Configuring SQL Server
Configuring the Cluster
Configuring the Availability Group and Disaster Recovery with Availability
Other Ways to Create Availability Groups
Post-Installation Tasks
Review Availability Groups
Review Replication – Logins plus
Using Contained Database with Availability Groups
Replication using SSIS and SQL Agents

Secondary Replicas _____ ----What are Secondary Replicas Configuring Readable Secondary Replicas **Configuring Client Connectivity Configuring Read-Only Routing** Configuring Replicas Load Balancing Offloading and Impact of Reporting Workloads **Query Performance** Offloading Database Backups Limitations and Best Practices Common Management Tasks Synchronization Availability Mode Checks/ Changes Add/ Remove a Database Add/ Remove a Replica Add/ remove an Availability Group **Index Maintenance Keeping Statistics Current** Memory-Optimized Tables Monitoring and Troubleshooting Availability Groups Dashboard T-SQL Wait Statistics Performance Monitor Availability Group - RTO and RPO Metrics PowerShell **DMVs** Logs SCOM Common Failure Scenarios - Endpoint, Listener, Replicas and Availability Groups