Building and Managing High Availability Solutions with SQL Server 2016 and 2014

Course Details

Course Outline

1. **Introduction to High Availability**

   - Basic aspects of High Availability

2. **Windows Server 2016 High Availability Features Overview**

   - Overview of HA features in Windows Server 2016

3. **SQL Server 2016 High Availability Features Overview**

   - Failover Cluster Instances

   - Availability Group

   - Log Shipping

4. **Windows Server 2016 Failover Clustering**

   - Installation

   - Storage configuration

   - Quorum configuration

   - Maintenance

   - Patching/Upgrading

   - Adding/Removing nodes to/from cluster

   - Monitoring

   - Troubleshooting

5. **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

6. **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

7. **SQL Server Interoperability**

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