

10971 Storage and High Availability with Windows Server®

Course Overview

In this course, you will learn about traditional storage topologies such as Direct Attached Storage (DAS), Network Attached Storage (NAS), Storage Area Networks (SANs), and bus technologies such as Fibre Channel and Internet SCSI (iSCSI).

This is a 4-day class



Who Should Attend

This course is intended for experienced IT Professionals who have the following experience and background:

- IT professionals with real-world experience who work in an enterprise environment and who are involved in storage and high availability management and provisioning, and who are looking to gain knowledge and training on the latest technologies in those areas in Windows Server 2012 and Windows Server 2012 R2.
- IT professionals with real-world experience who work in a Windows Server 2008 environment and want to assess the latest storage and technologies that are available in Windows Server 2012 and Windows Server 2012 R2.
- IT Professionals who work in small-to-medium enterprises who manage storage and high availability requirements for their organization.
- IT professionals who have skills in other areas, such as general system administration, who are looking for knowledge and skills for career development in Windows Server storage and high availability.

Course Outline

1 Disks and Volumes with Windows Server

Managing Disks in Windows Server
Managing Volumes in Windows Server
Securing Volumes and Drives
Lab : Managing Disks and Volumes in Windows Server 2012

2 Fundamental Storage Technologies and Components

Storage Topology Options
Configuring Bus Technologies in Windows Server
Configuring Sharing in Windows Server
Lab : Planning and Configuring Storage Technologies and Components

3 Implementing Storage Spaces and Data Deduplication

Implementing Storage Spaces
Maintaining Storage Spaces
Implementing Data Deduplication
Lab : Implementing Storage Spaces
Lab : Implementing Data Deduplication



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4 High Availability in Windows Server

Defining Levels of Availability
High Availability and Disaster Recovery Solutions with Hyper-V
Virtual Machines
High Availability with Failover Clustering in Windows Server
2012
Lab : Planning and Configuring High Availability and Disaster
Recovery Solutions

5 Implementing Failover Clustering

Planning a Failover Cluster
Creating a New Failover Cluster
Lab : Creating and Administering a Cluster

6 Managing Server Roles and Clustering Resources

Configuring High Availability Applications and Services on a
Failover Cluster
Managing and Maintaining a Failover Cluster
Troubleshooting a Failover Cluster
Implementing Site High Availability with Multi-site Failover
Clustering
Lab : Managing Server Roles and Clustering Resources

7 Implementing Failover Clustering with Hyper-V

Overview of Integrating Hyper-V with Failover Clustering
Implementing Hyper-V with Failover Clustering
Managing and Maintaining Hyper-V Virtual Machines on
Failover Clusters
Lab : Implementing Failover Clustering by Using Hyper-V

8 Storage Infrastructure Management with Virtual Machine Manager

Overview of Virtual Machine Manager
Managing Storage Infrastructure with Virtual Machine Manager
Provisioning Failover Cluster in System Center 2012 R2 Virtual
Machine Manager
Lab : Storage Infrastructure Management with Virtual Machine
Manager

9 Cloud Based Storage and High Availability

Microsoft Azure Storage Solutions and Infrastructure
Cloud Integrated Storage with StorSimple
Disaster Recovery with Hyper-V Recovery Manager
Lab : Cloud Based Storage and High Availability

10 Implementing Network Load Balancing Clusters

Overview of NLB
Configuring an NLB Cluster
Planning an NLB Implementation
Lab : Implementing a Network Load Balancing Cluster