

MWS2-22 - MOC 10971 - STORAGE AND HIGH AVAILABILITY WITH WINDOWS SERVER

Categoria: **Windows Server 2012**

INFORMAZIONI SUL CORSO



Durata:
4 Giorni



Categoria:
Windows Server 2012



Qualifica Istruttore:
Microsoft Certified
Trainer



Dedicato a:
Professionista IT



Produttore:
Microsoft

OBIETTIVI

Al termine del corso i partecipanti saranno in grado di:

Gestire e proteggere dischi e volumi in Windows Server.

Descrivere le tecnologie di storage e i relativi componenti di Windows Server.

Implementare e gestire spazi di stoccaggio e deduplicazione dei dati.

Descrivere l'alta disponibilit  e il disaster recovery con le macchine virtuali Hyper-V e l'alta disponibilit  con il clustering di failover in Windows Server 2012.

Pianificare e realizzare un cluster di failover.

Descrivere la gestione di ruoli server e delle risorse di clustering.

Implementare e gestire macchine virtuali utilizzando Hyper-V con il clustering di failover.

Utilizzare System Center 2012 R2 Virtual Machine Manager per eseguire la gestione dell'infrastruttura di storage.

Descrivere le soluzioni ad alta disponibilit  di storage cloud-based.

Pianificare e attuare un cluster con bilanciamento di carico di rete (NLB).

PREREQUISITI

Per partecipare al corso, gli studenti devono avere: Conoscenza ed esperienza lavorativa quotidiana con Windows Server e Windows Client in un ambiente Enterprise. Conoscenza ed esperienza con i concetti di storage locali di base e relative tecnologie. Esperienza di lavoro con Windows Server 2012 o Windows Server 2012 R2 (utile ma non essenziale).

CONTENUTI

Module 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

Creating and Managing Virtual Hard Disks by Using Windows PowerShell

Converting Virtual Hard Disks from the .vhd Format to the .vhdx Format

Resizing a Volume

Enabling BitLocker Drive Encryption to Secure a Drive

Module 2: Fundamental Storage Technologies and Components

Server Storage Topology
Bus Technologies and Protocols
Configuring Sharing in Windows Server

Lab : Planning and Configuring Storage Technologies and Components

Planning Storage Requirements
Configuring iSCSI Storage
Configuring and Managing Share Infrastructure

Module 3: Implementing Storage Spaces and Data Deduplication

Implementing Storage Spaces
Maintaining Storage Spaces
Implementing Data Deduplication

Lab : Implementing Storage Spaces

Creating a Storage Space
Enabling and Configuring Storage Tiering

Lab : Implementing Data Deduplication

Installing Data Deduplication
Configuring Data Deduplication

Module 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

Determining an Appropriate High Availability and Disaster Recovery Solution
Implementing Storage Migration
Implementing Hyper-V Replica

Module 5: Implementing Failover Clustering

Planning a Failover Cluster
Creating a New Failover Cluster

Lab : Creating and Administering a Cluster

Validating and Configuring Servers for Failover Clustering
Creating a Cluster and Configuring a Highly Available Application
Verifying Quorum Settings and Managing Nodes in the Cluster
Configuring a Quorum from a Disk Witness to a File Share Witness and Defining Node Voting

Module 6: Managing Server Roles and Clustering Resources

Configuring Highly Available Applications and Services on a Failover Cluster
Managing and Maintaining a Failover Cluster
Troubleshooting a Failover Cluster
Implementing Site High Availability with Multisite Failover Clusters

Lab : Managing Server Roles and Clustering Resources

Preparing for and Creating a Failover Cluster by Using Windows PowerShell
Implementing Storage Spaces by using Failover Clustering

- Configuring the File Server Cluster and Creating Data
- Verifying the File Server Role High Availability
- Securing CSVs by Using BitLocker
- Configuring CAU on the Failover Cluster

Module 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

- Creating a Hyper-V Application Failover Cluster
- Creating a Scale-Out File Server Cluster
- Configuring Hyper-V to Use File Server and Then Verify Availability
- Configuring a Shared Virtual Hard Disk

Module 8: Storage Infrastructure Management with Virtual Machine Manager

- Overview of Virtual Machine Manager
- Managing Storage Infrastructure with Virtual Machine Manager
- Provisioning Failover Clustering in Virtual Machine Manager

Lab : Managing Storage Infrastructure

- Configuring and Provisioning Storage Infrastructure Components
- Adding iSCSI Storage to VMM
- Creating a Scale-Out File Server Storage Cluster

Module 9: Cloud-Based Storage and High Availability

- Azure Storage Solutions and Infrastructure
- Cloud Integrated Storage with StorSimple
- Disaster Recovery with Azure Site Recovery

Lab : Managing Cloud-Based Storage and High Availability

- Assessing Options for A. Datums Future Storage and Service Needs
- Configuring Azure Storage
- Configuring Azure Virtual Machines
- Managing Azure Storage and VMs by Using Windows PowerShell

Module 10: Implementing Network Load Balancing Clusters

- Overview of NLB
- Configuring an NLB Cluster
- Planning an NLB Implementation

Lab : Implementing a Network Load Balancing Cluster

- Implementing an NLB Cluster
- Configuring and Managing the NLB Cluster
- Validating High Availability for the NLB Cluster

INFO

Manuale: Il Materiale Didattico Ufficiale per tutti i corsi Microsoft MOC può essere richiesto, se disponibile, in forma elettronica (DMOC) invece che cartacea e lo studente iscritto potrà scaricarlo dal sito Microsoft. Chi acquista un

DMOC ha diritto a consultare tutte le versioni del manuale, sia quelle precedenti a quella che acquista sia quelle che usciranno successivamente, dove troverà corretti eventuali errori e/o le novità del prodotto.

Prezzo manuale: 210 € incluso nel prezzo del corso a Calendario

Natura del corso: Operativo (previsti lab su PC)