MWS3-1 - MOC 20743 - UPGRADING YOUR SKILLS TO MCSA: WINDOWS SERVER 2016

Categoria: **Windows Server 2016**

INFORMAZIONI SUL CORSO

Durata:	Categoria:	Qualifica Istruttore:	Dedicato a:	Produttore:
5 Giorni	Windows Server 2016	Microsoft Certified Trainer	Professionista IT	Microsoft

OBIETTIVI

Installare e configurare Windows Server 2016.
Descrivere le funzionalità di archiviazione in Windows Server 2016.
Implementare i servizi di directory.
Implementare Active Directory Federation Services (ADFS).
Descrivere le modalità di networking.
Implementare Hyper-V.
Configurare le funzioni di rete avanzate.
Implementare i Software Defined Network.
Implementare l'accesso remoto.
Distribuire e gestire container Windows e Hyper-V.
Implementare il clustering di failover.
Implementare il clustering di failover utilizzando le macchine virtuali.

PREREQUISITI

Due o più anni di esperienza con la distribuzione e la gestione di Windows Server 2012 o Windows Server 2008;
Esperienza quotidiana di NS di Windows Server 2012 o Windows Server 2008.
Esperienza di implementazione di reti Windows.
Esperienza di implementazione di Active Directory.
Esperienza di implementazione di virtualizzazione Windows Server.
Conoscenze equivalenti alle credenziali MCSA di Windows Server 2008 o Windows Server 2012.

CONTENUTI

Module 1: Installing and configuring Windows Server 2016
Introducing Windows Server 2016
Installing Windows Server 2016
Configuring Windows Server 2016
Preparing for upgrades and migrations
Migrating server roles and workloads
Windows Server activation models

Lab : Installing and configuring Nano Server
Installing Nano Server
Completing post-installation tasks on Nano Server
After completing this course, students will be able to:
Explain Windows Server 2016.
Install Windows Server 2016.
Configure Windows Server 2016.
Prepare for upgrades and migrations.
Migrate server roles and workloads.
Describe the Windows Server activation models.

Module 2: Overview of storage in Windows Server 2016
Overview of storage in Windows Server 2016
Implementing Data Deduplication
Configuring iSCSI storage
Configuring the Storage Spaces feature in Windows Server 2016

Lab : Implementing and managing storage
Implementing File Server Resource Manager (FSRM)
Configuring iSCSI storage

Lab : Implementing and managing advanced storage solutions
Configuring redundant storage spaces
Implementing the Storage Spaces Direct feature
After completing this module, students will be able to:
Explain storage in Windows Server 2016.
Implement Data Deduplication.
Configure iSCSI storage.
Configure the Storage Spaces feature in Windows Server 2016

Module 3: Implementing Directory Services
Deploying Active Directory domain controllers
Implementing service accounts
Azure AD

Lab : Implementing and Managing AD DS
Cloning a domain controller
Implementing service accounts
After completing this module, students will be able to:
Deploy AD DS domain controllers.
Implement service accounts.
Explain Azure AD.

Module 4: Implementing AD FS
Overview of AD FS
Deploying AD FS
Implementing AD FS for a single organization
Implementing Web Application Proxy
Implementing SSO with Microsoft Online Services

Lab : Implementing AD FS
Installing and configuring AD FS
Configuring an internal application for AD FS

Lab : Implementing Web Application Proxy
Implementing Web Application Proxy
After completing this module, students will be able to:
Describe of AD FS.
Deploy AD FS.
Implement AD FS for a single organization.
Implement Web Application Proxy.
Implement SSO with Microsoft Online Services.
Implement SSO with Microsoft Online Services

Module 5: Implementing network services
Overview of networking enhancements
Implementing IPAM
Managing IP address spaces with IPAM

Lab : Implementing network services
Configuring DNS policies
Configuring DHCP failover
Configuring IPAM
After completing this module, students will be able to:
Describe networking enhancements.
Implement IP address management.
Manage IP address spaces with IPAM.

Module 6: Implementing Hyper-V
Configuring the Hyper-V role in Windows Server 2016
Configuring Hyper-V storage
Configuring Hyper-V networking
Configuring Hyper-V virtual machines

Lab : Implementing server virtualization with Hyper-V
Installing the Hyper-V server role
Configuring virtual networking
Creating and configuring a virtual machine
After completing this module, students will be able to:
Configure the Hyper-V role in Windows Server 2016.
Configure Hyper-V storage.
Configure Hyper-V networking.
Configure Hyper-V virtual machines.

Module 7: Configuring advanced networking features
Overview of high-performance networking features
Configuring advanced Hyper-V networking features

Lab : Configuring advanced Hyper-V networking features
Creating and using Microsoft Hyper-V virtual switches
Configuring and using the advanced features of a virtual switch
After completing this module, students will be able to:
Describe high-performance networking features.
Configure advanced Hyper-V networking features.

Module 8: Implementing Software Defined Networking

Overview of Software Defined Networking
Implementing network virtualization
Implementing Network Controller

Lab : Deploying Network Controller
Preparing to deploy Network Controller
Deploying Network Controller
After completing this module, students will be able to:
Describe Software Defined Networking.
Implement network virtualization.
Implement Network Controller.

Module 9: Implementing remote access
Remote access overview
Implementing DirectAccess
Implementing VPN

Lab : Implementing DirectAccess
Configure DirectAccess using the Getting Started Wizard
Testing DirectAccess
After completing this module, students will be able to:
Describe common remote-access solutions and technologies.
Implement DirectAccess.
Implement VPNs.

Module 10: Deploying and managing Windows Server and Hyper-V containers
Overview of containers in Windows Server 2016
Deploying Windows Server and Hyper-V containers
Installing, configuring, and managing containers by using Docker

Lab : Installing and configuring containers
Installing and configuring Windows Server containers by using Windows PowerShell
Installing and configuring Windows Server containers by using the Docker engine
After completing this module, students will be able to:
Explain the purpose of Windows Server and Hyper-V containers.
Deploy and manage Windows Server and Hyper-V containers.
Install, configure, and manage containers.

Module 11: Implementing failover clustering
Overview of failover clustering
Implementing a failover cluster
Configuring highly-available applications and services on a failover cluster
Maintaining a failover cluster
Implementing a stretch cluster

Lab : Implementing failover clustering
Configuring iSCSI storage
Configuring a failover cluster
Deploying and configuring a highly available file server
Validating the deployment of a highly available file server
Configuring CAU on the failover cluster
After completing this module, students will be able to:
Describe the concept of failover clustering.

Implement a failover cluster.
Configure highly-available applications and services on a failover cluster.
Maintain a failover cluster.
Implement a stretch-failover cluster.

Module 12: Implementing failover clustering with Windows Server 2016 Hyper-V
Overview of the integration of Hyper-V Server 2016 with failover clustering
Implementing Hyper-V virtual machines on failover clusters
Implementing Windows Server 2016 Hyper-V virtual machine migration
Implementing Hyper-V Replica

Lab : Implementing failover clustering with Windows Server 2016 Hyper-V
The Hyper-V Failover clustering testing environment
Configuring Hyper-V Replica
Configuring a failover cluster for Hyper-V
Configuring a highly available virtual machine
After completing this module, students will be able to:
Describe how Windows Server 2016 Hyper-V integrates with failover clustering.
Implement Hyper-V virtual machines on failover clusters.
Implement Hyper-V virtual machine migration.
Implement Hyper-V Replica.

INFO

Materiale didattico: Materiale didattico in formato digitale
Costo materiale didattico: incluso nel prezzo del corso a Calendario
Natura del corso: Operativo (previsti lab su PC)