MWS4-1 - MOC WS-011T00 - WINDOWS SERVER 2019 ADMINISTRATION
Categoria: **Windows Server 2019**

INFORMAZIONI SUL CORSO

Durata:
5 Giorni

Categoria:
Windows Server 2019

Qualifica Istruttore:
Microsoft Certified Trainer

Dedicato a:
Professionista IT

Produttore:
Microsoft

OBIETTIVI

-Use administrative techniques and tools in Windows Server 2019.
-Implement identity Services.
-Manage network infrastructure services.
-Configure file servers and storage.
-Manage virtual machines using Hyper-V virtualization and containers
-Implement high availability and disaster recovery solutions.
-Apply security features to protect critical resources.
-Configure Remote Desktop Services.
-Configure a virtual machine-based desktop infrastructure deployment.
-Implement remote access and web services.
-Implement service monitoring and performance monitoring, and apply troubleshooting.
-Perform upgrades and migration related to AD DS, and storage.

PREREQUISITI

-Some exposure to and experience with Active Directory Domain Services (AD DS) concepts and technologies in Windows Server 2012 or Windows Server 2016.
-Some exposure to and experience with Active Directory Domain Services (AD DS) concepts and technologies in Windows Server 2012 or Windows Server 2016.
-Experience and an understanding of core networking technologies such as IP addressing, name resolution, and Dynamic Host Configuration Protocol (DHCP).
-Experience working with and an understanding of Microsoft Hyper-V and basic server virtualization concepts.
-An awareness of basic security best practices.
-Experience working hands-on with Windows client operating systems such as Windows 8, Windows 8.1 or Windows 10.
-Basic experience with Windows PowerShell.

CONTENUTI

Module 1: Windows Server Administration Overview
-Overview of Windows Server administration principles and tools

- Introducing Windows Server 2019
- Windows Server Core Overview

Lab : Deploying and configuring Windows Server
- Deploying and configuring Server Core
- Implementing and using remote server administration

Module 2: Identity Services in Windows Server
- Overview of AD DS
- Deploying Windows Server domain controllers
- Overview of Azure AD
- Implementing Group Policy
- Overview of Active Directory Certificate Services

Lab : Implementing identity services and Group Policy
- Deploying a new domain controller on Server Core
- Configuring Group Policy
- Deploying and using certificate services

Module 3: Network Infrastructure services in Windows Server
- Deploying and managing DHCP
- Deploying and managing DNS services
- Deploying and managing IPAM

Lab : Implementing and configuring network infrastructure services in Windows Server
- Deploying and configuring DHCP
- Deploying and configuring DNS

Module 4: File Servers and Storage management in Windows Server
- Volumes and file systems in Windows Server
- Implementing sharing in Windows Server
- Implementing Storage Spaces in Windows Server
- Implementing Data Deduplication
- Implementing iSCSI
- Deploying Distributed File System

Lab : Implementing storage solutions in Windows Server
- Implementing Data Deduplication
- Configuring iSCSI storage
- Configuring redundant storage spaces
- Implementing Storage Spaces Direct

Module 5: Hyper-V virtualization and containers in Windows Server
- Hyper-V in Windows Server
- Configuring VMs
- Securing virtualization in Windows Server
- Containers in Windows Server
- Overview of Kubernetes

Lab : Implementing and configuring virtualization in Windows Server

- Creating and configuring VMs
- Installing and configuring containers

Module 6: High Availablity in Windows Server

- Planning for failover clustering implementation
- Creating and configuring failover cluster
- Overview of stretch clusters
- High availability and disaster recovery solutions with Hyper-V VMs

Lab : Implementing failover clustering

- Configuring iSCSI storage
- Configuring a failover cluster
- Deploying and configuring a highly available file server
- Validating the deployment of the highly available file server

Module 7: Disaster recovery in Windows Server

- Hyper-V Replica
- Backup and restore infrastructure in Windows Server

Lab : Implementing Hyper-V Replica and Windows Server Backup

- Implementing Hyper-V Replica
- Implementing backup and restore with Windows Server Backup

Module 8: Windows Server security

- Credentials and privileged access protection in Windows Server
- Hardening Windows Server
- Just Enough Administration in Windows Server
- Securing and analyzing SMB traffic
- Windows Server update management

Lab : Configuring sercurity in Windows Server

- Configuring Windows Defender Credential Guard
- Locating problematic accounts
- Implementing LAPS

Module 9: Remote Desktop Services in Windows Server

- Remote Desktop Services Overview
- Configuring a session-based desktop deployment
- Overview of personal and pooled virtual desktops

Lab : Implementing RDS in Windows Server

- Implementing RDS
- Configuring RemoteApp collection settings
- Configuring a virtual desktop template

Module 10: Remote access and web services in Windows Server

- Overview of RAS in Windows Server
- Implementing VPNs
- Implementing NPS

-Implementing Always On VPN

-Implementing Web Server in Windows Server

Lab : Deploying network workloads

-Implementing Web Application Proxy

-Implementing VPN in Windows Server

-Deploying and Configuring Web Server

Module 11: Monitoring, performance, and troubleshooting

-Overview of Windows Server monitoring tools

-Using Performance Monitor

-Monitoring event logs for troubleshooting

Lab : Monitoring and troubleshooting Windows Server

-Establishing a performance baseline

-Identifying the source of a performance problem

-Viewing and configuring centralized event logs

-Identifying the source of a performance problem

-Describe monitoring tools in Windows Server.

-Describe performance monitoring and use it in Windows Server.

-Describe event logging and perform event logging monitoring for troubleshooting purposes.

Module 12: Upgrade and migration in Windows Server

-AD DS migration

-Storage Migration Service

-Windows Server migration tools

Lab : Migrating Server workloads

-Selecting a process to migrate server workloads

-Planning how to migrate files by using Storage Migration Service

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)