

# 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 Availability 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 security 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)