

# MAZR-21 - MOC AZ-800T00 - ADMINISTERING WINDOWS SERVER HYBRID CORE INFRASTRUCTURE

Categoria: **Azure**

## INFORMAZIONI SUL CORSO



Durata:  
4 Giorni



Categoria:  
Azure



Qualifica Istruttore:  
Microsoft Certified  
Trainer



Dedicato a:  
Professionista IT



Produttore:  
Microsoft

## OBIETTIVI

- Use administrative techniques and tools in Windows Server.
- Identify tools used to implement hybrid solutions, including Windows Admin Center and PowerShell.
- Implement identity services in Windows Server.
- Implement identity in hybrid scenarios, including Azure AD DS on Azure IaaS and managed AD DS.
- Integrate Azure AD DS with Azure AD.
- Manage network infrastructure services.
- Deploy Azure VMs running Windows Server, and configure networking and storage.
- Administer and manage Windows Server IaaS Virtual Machine remotely.
- Manage and maintain Azure VMs running Windows Server.
- Configure file servers and storage.
- Implement File Services in hybrid scenarios, using Azure Files and Azure File Sync.

## PREREQUISITI

Before attending this course, students must have:

- Experience with managing Windows Server operating system and Windows Server workloads in on-premises scenarios, including AD DS, DNS, DFS, Hyper-V, and File and Storage Services
- Experience with common Windows Server management tools (implied in the first prerequisite).
- Basic knowledge of core Microsoft compute, storage, networking, and virtualization technologies (implied in the first prerequisite).
- 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
- Basic experience with implementing and managing IaaS services in Microsoft Azure
- Basic knowledge of Azure Active Directory
- Experience working hands-on with Windows client operating systems such as Windows 10 or Windows 11
- Basic experience with Windows PowerShell

## CONTENUTI

## **Module 1: Identity services in Windows Server**

- Introduction to AD DS
- Manage AD DS domain controllers and FSMO roles
- Implement Group Policy Objects
- Manage advanced features of AD DS

### **Lab: Implementing identity services and Group Policy**

- Deploying a new domain controller on Server Core
- Configuring Group Policy

## **Module 2: Implementing identity in hybrid scenarios**

- Implement hybrid identity with Windows Server
- Deploy and manage Azure IaaS Active Directory domain controllers in Azure

### **Lab: Implementing integration between AD DS and Azure AD**

- Preparing Azure AD for AD DS integration
- Preparing on-premises AD DS for Azure AD integration
- Downloading, installing, and configuring Azure AD Connect
- Verifying integration between AD DS and Azure AD
- Implementing Azure AD integration features in AD DS

## **Module 3: Windows Server administration**

- Perform Windows Server secure administration
- Describe Windows Server administration tools
- Perform post-installation configuration of Windows Server
- Just Enough Administration in Windows Server

### **Lab: Managing Windows Server**

- Implementing and using remote server administration

## **Module 4: Facilitating hybrid management**

- Administer and manage Windows Server IaaS virtual machines remotely
- Manage hybrid workloads with Azure Arc

### **Lab: Using Windows Admin Center in hybrid scenarios**

- Provisioning Azure VMs running Windows Server
- Implementing hybrid connectivity by using the Azure Network Adapter
- Deploying Windows Admin Center gateway in Azure
- Verifying functionality of the Windows Admin Center gateway in Azure

## **Module 5: Hyper-V virtualization in Windows Server**

- Configure and manage Hyper-V
- Configure and manage Hyper-V virtual machines
- Secure Hyper-V workloads
- Run containers on Windows Server
- Orchestrate containers on Windows Server using Kubernetes

### **Lab: Implementing and configuring virtualization in Windows Server**

- Creating and configuring VMs
- Installing and configuring containers

### **Module 6: Deploying and configuring Azure VMs**

- Plan and deploy Windows Server IaaS virtual machines
- Customize Windows Server IaaS virtual machine images
- Automate the configuration of Windows Server IaaS virtual machines

### **Lab: Deploying and configuring Windows Server on Azure VMs**

- Authoring Azure Resource Manager (ARM) templates for Azure VM deployment
- Modifying ARM templates to include VM extension-based configuration
- Deploying Azure VMs running Windows Server by using ARM templates
- Configuring administrative access to Azure VMs running Windows Server
- Configuring Windows Server security in Azure VMs

### **Module 7: Network infrastructure services in Windows Server**

- Deploy and manage DHCP
- Implement Windows Server DNS
- Implement IP address management
- Implement remote access

### **Lab: Implementing and configuring network infrastructure services in Windows Server**

- Deploying and configuring DHCP
- Deploying and configuring DNS

### **Module 8: Implementing hybrid networking infrastructure**

- Implement hybrid network infrastructure
- Implement DNS for Windows Server IaaS VMs
- Implement Windows Server IaaS VM IP addressing and routing

### **Lab: Implementing Windows Server IaaS VM networking**

- Implementing virtual network routing in Azure
- Implementing DNS name resolution in Azure

### **Module 9: File servers and storage management in Windows Server**

- Manage Windows Server file servers
- Implement Storage Spaces and Storage Spaces Direct
- Implement Windows Server Data Deduplication
- Implement Windows Server iSCSI
- Implement Windows Server Storage Replica

### **Lab: Implementing storage solutions in Windows Server**

- Implementing Data Deduplication
- Configuring iSCSI storage
- Configuring redundant Storage Spaces
- Implementing Storage Spaces Direct

### **Module 10: Implementing a hybrid file server infrastructure**

- Overview of Azure file services

-Implementing Azure File Sync

**Lab: Implementing Azure File Sync**

- Implementing DFS Replication in your on-premises environment
- Creating and configuring a sync group
- Replacing DFS Replication with File Sync-based replication
- Verifying replication and enabling cloud tiering
- Troubleshooting replication issues

## INFO

**Esame:** AZ-800 - Administering Windows Server Hybrid Core Infrastructure

**Materiale didattico:** Materiale didattico ufficiale Microsoft in formato digitale

**Costo materiale didattico:** 260 € incluso nel prezzo del corso a Calendario

**Natura del corso:** Operativo (previsti lab su PC)