



Training: Microsoft

AZ-800T00 Administering Windows Server Hybrid Core Infrastructure



TRAINING GOALS:

This course teaches IT Professionals how to manage core Windows Server workloads and services using on-premises, hybrid, and cloud technologies. The course teaches IT Professionals how to implement and manage on-premises and hybrid solutions such as identity, management, compute, networking, and storage in a Windows Server hybrid environment.

Skills gained:

- 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.

Audience profile:

This four-day course is intended for Windows Server Hybrid Administrators who have experience working with Windows Server and want to extend the capabilities of their on-premises environments by combining on-premises and hybrid technologies. Windows Server Hybrid Administrators implement and manage on-premises and hybrid solutions such as identity, management, compute, networking, and storage in a Windows Server hybrid environment.

CONSPECT:

- **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
- **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
- **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
- **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
- **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
- **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
- **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
- **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
- **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 a hybrid file server infrastructure**
 - Overview of Azure file services
 - Implementing Azure File Sync
 - Lab : Implementing Azure File Sync

REQUIREMENTS:

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

Difficulty level





CERTIFICATE:

Certificate of completing an authorized Microsoft training

TRAINER:

Microsoft Certified Trainer