

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 laaS 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

www.compendium.pl page 1 of 4



- 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 laaS Active Directory domain controllers in Azure
- \circ 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 laaS 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 laaS virtual machines
- Customize Windows Server laaS virtual machine images
- Automate the configuration of Windows Server laaS 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

www.compendium.pl page 2 of 4





Implementing hybrid networking infrastructure

- Implement hybrid network infrastructure
- Implement DNS for Windows Server laaS VMs
- Implement Windows Server laaS VM IP addressing and routing
- Lab: Implementing Windows Server laaS 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 laaS 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

www.compendium.pl page 3 of 4



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Certificate of completing an authorized Microsoft training

TRAINER:

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www.compendium.pl page 4 of 4

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