

# Administering Windows Server Hybrid Core Infrastructure

**Course Duration: 32 Hrs.**

**Course Code: AZ-800T00**

## Course Overview

The AZ-800T00 courses are designed for IT professionals who require the core Windows Server work volumes and services on radius, and clouds to increase their expertise in the environment. This extensive course focuses on the implementation and administration of solutions related to identification, calculation, networking, storage and management in a Windows Server -hybrid infrastructure.

## Course Content

Deploy and manage identity infrastructure (Windows Server)

- Introduction to AD DS
- Manage AD DS domain controllers and FSMO roles
- Implement Group Policy Objects
- Manage advanced features of AD DS
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Deploy and manage identity infrastructure (Hybrid scenarios)

Module 1: Implement hybrid identity with Windows Server

Module 2: Deploy and manage Azure IaaS Active Directory domain controllers in Azure

Manage Windows Servers and workloads in a hybrid environment (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

Manage Windows Servers and workloads in a hybrid environment (Facilitating hybrid )

- Administer and manage Windows Server IaaS Virtual Machine remotely
- Manage hybrid workloads with Azure Arc

Manage virtualization and containers in a hybrid environment (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

**Manage virtualization and containers in a hybrid environment (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

**Implement and manage an on-premises and hybrid networking infrastructure (Network infrastructure services in Windows Server)**

- Deploy and manage DHCP
- Implement Windows Server DNS
- Implement IP Address Management
- Implement remote access
- Deploy Network Security Groups by using the Azure portal
- Design and implement Azure Firewall
- Exercise: Deploy and configure Azure Firewall using the Azure portal
- Working with Azure Firewall Manager
- Exercise: Secure your virtual hub using Azure Firewall Manager
- Implement a Web Application Firewall on Azure Front Door

## **Implement and manage an on-premises and hybrid networking infrastructure (Implementing hybrid networking infrastructure)**

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

## **Configure storage and file services (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

## **Configure storage and file services (Implementing a hybrid file server infrastructure)**

- Implement a hybrid file server infrastructure (Overview of Azure file services)
- (cont.): Implement a hybrid file server infrastructure (Implementing Azure File Sync)