

# ADMINISTER WINDOWS SERVER HYBRID CORE INFRASTRUCTURE (AZ-800T00)

Course Code: 821499

This course teaches IT Professionals how to manage core Windows Server workloads and services using on-premises, hybrid, and cloud technologies.

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.

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## What You'll Learn

Students will learn to,

- Implement an identity infrastructure with Windows Server
- Manage Windows Servers and workloads in a hybrid environment
- Manage virtualization and containers in Windows Server
- Implement a networking infrastructure in Windows Server
- Configure storage services in Windows Server

## Who Needs to Attend

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.

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CLASSROOM LIVE

\$2,595 CAD

4 Day

## Classroom Live Outline

### **Deploy and manage identity infrastructure**

- [Introduction to AD DS](#)
- Manage AD DS domain controllers and FSMO roles
- Implement Group Policy Objects
- Manage advanced features of AD DS
- Implement hybrid identity with Windows Server
- Deploy and manage Azure IaaS Active Directory domain controllers in Azure

### **Manage Windows Servers and workloads in a hybrid environment**

- Perform Windows Server secure administration
- Describe Windows Server administration tools
- Perform post-installation configuration of Windows Server
- Administer and manage Windows Server IaaS Virtual Machine remotely
- Manage hybrid workloads with Azure Arc
- Optimizing IT operations and management with Azure Automate
- Just Enough Administration in Windows Server

### **Manage virtualization and containers in a hybrid environment**

- Configure and manage Hyper-V
- Configure and manage Hyper-V virtual machines
- Secure Hyper-V workloads
- Plan and deploy Windows Server IaaS Virtual Machines
- Customize Windows Server IaaS Virtual Machine images
- Automate the configuration of Windows Server IaaS Virtual Machines
- Run containers on Windows Server
- Orchestrate containers on Windows Server using Kubernetes

### **Implement and operate an on-premises and hybrid networking infrastructure**

- Implement DNS for Windows Server IaaS VMs

- Deploy and manage DHCP
- Implement Windows Server DNS
- Implement IP Address Management
- Implement remote access
- Implement hybrid network infrastructure
- Implement Windows Server IaaS VM IP addressing and routing

### **Configure storage and file services**

- 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
- Implement a hybrid file server infrastructure

## Classroom Live Labs

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

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

### **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

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

- Implementing and using remote server administration

### **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

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

- Creating and configuring VMs
- Installing and configuring containers

### **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

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

- Deploying and configuring DHCP
- Deploying and configuring DNS

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

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

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

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

**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

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VIRTUAL CLASSROOM LIVE

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Jun 1 - 4, 2026 | 9:00 AM - 5:00 PM EDT

Jul 20 - 23, 2026 | 9:00 AM - 5:00 PM EDT

Aug 17 - 20, 2026 | 9:00 AM - 5:00 PM EDT

Sep 28 - Oct 1, 2026 | 9:00 AM - 5:00 PM EDT

Oct 26 - 29, 2026 | 9:00 AM - 5:00 PM EDT

Nov 30 - Dec 3, 2026 | 12:00 - 8:00 PM EST

Dec 14 - 17, 2026 | 9:00 AM - 5:00 PM EST



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PRIVATE GROUP TRAINING

4 Day

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