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 Automanage
- 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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Dec 15 - 18, 2025 | 9:00 AM - 5:00 PM EST

Jan 12 - 15, 2026 | 9:00 AM - 5:00 PM EST

Feb 2 - 5, 2026 | 9:00 AM - 5:00 PM EST

Mar 16 - 19, 2026 | 12:00 - 8:00 PM EDT

Mar 23 - 26, 2026 | 9:00 AM - 5:00 PM EDT

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

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

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

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PRIVATE GROUP TRAINING	4 Day

Visit us at www.globalknowledge.com or call us at 1-866-716-6688.