AZ-800T00: Administering Windows Server Hybrid Core Infrastructure

Category: Cloud Platforms | **Vendor:** Microsoft

Duration: 32.00 hours (4 days) **26.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format:	Instructor Led - Online
Certification:	Microsoft Certified: Windows Server Hybrid Administrator Associate
Related Exam:	AZ-800

Course Overview

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.

About This Course

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.

Who Should 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.

Prerequisites & Entry Requirements

General Prerequisites:

- 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

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Course ObjectivesUse administrative techniques and tools in Windows ServerIdentify tools used to implement hybrid solutions, including Windows Admin Center and PowerShellImplement identity services in Windows ServerImplement identity in hybrid scenarios, including Azure AD DS on Azure IaaS and managed AD DSIntegrate Azure AD DS with Azure ADManage network infrastructure servicesDeploy Azure VMs running Windows Server, and configure networking and storageAdminister and manage Windows Server IaaS Virtual Machine remotelyManage and maintain Azure VMs running Windows ServerConfigure file servers and storageImplement File Services in hybrid scenarios, using Azure Files and Azure File Sync., Course ObjectivesUse administrative techniques and tools in Windows ServerIdentify tools used to implement hybrid solutions, including Windows Admin Center and PowerShellImplement identity services in Windows ServerImplement identity in hybrid scenarios, including Azure AD DS on Azure IaaS and managed AD DSIntegrate Azure AD DS with Azure ADManage network infrastructure servicesDeploy Azure VMs running Windows Server, and configure networking and storageAdminister and manage Windows Server IaaS Virtual Machine remotelyManage and maintain Azure VMs running Windows ServerConfigure file servers and storageImplement File Services in hybrid scenarios, using Azure Files and Azure File Sync., Course ObjectivesUse administrative techniques and tools in Windows ServerIdentify tools used to implement hybrid solutions, including Windows Admin Center and PowerShellImplement identity services in Windows ServerImplement identity in hybrid scenarios, including Azure AD DS on Azure IaaS and managed AD DSIntegrate Azure AD DS with Azure ADManage network infrastructure servicesDeploy Azure VMs running Windows Server, and configure networking and storageAdminister and manage Windows Server IaaS Virtual Machine remotelyManage and maintain Azure VMs running Windows ServerConfigure file servers and storageImplement File Services in hybrid scenarios, using Azure Files and Azure File Sync., Course ObjectivesUse administrative techniques and tools in Windows ServerIdentify tools used to implement hybrid solutions, including Windows Admin Center and PowerShellImplement identity services in Windows ServerImplement identity in hybrid scenarios, including Azure AD DS on Azure IaaS and managed AD DSIntegrate Azure AD DS with Azure ADManage network infrastructure servicesDeploy Azure VMs running Windows Server, and configure networking and storageAdminister and manage Windows Server IaaS Virtual Machine remotelyManage and maintain Azure VMs running Windows ServerConfigure file servers and storageImplement File Services in hybrid scenarios, using Azure Files and Azure File Sync., Course ObjectivesUse administrative techniques and tools in Windows ServerIdentify tools used to implement hybrid solutions, including Windows Admin Center and PowerShellImplement identity services in

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Detailed Course Outline

1 - Introduction to AD DS

- Define AD DS
- Define users, groups, and computers
- Define AD DS forests and domains
- Define OUs
- Manage objects and their properties in AD DS

2 - Manage AD DS domain controllers and FSMO roles

- Deploy AD DS domain controllers
- Maintain AD DS domain controllers
- Manage the AD DS Global Catalog role
- Manage AD DS operations masters
- Manage AD DS schema

3 - Implement Group Policy Objects

- Define GPOs
- Implement GPO scope and inheritance
- Define domain-based GPOs
- Create and configure a domain-based GPO
- Define GPO storage
- Define administrative templates

4 - Manage advanced features of AD DS

- Create trust relationships
- Implement ESAE forests
- Monitor and troubleshoot AD DS
- Create custom AD DS partitions

5 - Implement hybrid identity with Windows Server

- Select a Microsoft Entra integration model
- Plan for Microsoft Entra integration
- Prepare on-premises Active Directory for directory synchronization
- Install and configure directory synchronization with Microsoft Entra Connect
- Implement Seamless Single Sign-On
- Enable Microsoft Entra login in for Windows VM in Azure
- Describe Microsoft Entra Domain Services
- Implement and configure Microsoft Entra Domain Services
- Manage Windows Server 2019 in a Microsoft Entra Domain Services environment
- Create and configure a Microsoft Entra Domain Services instance
- Join a Windows Server VM to a managed domain

6 - Deploy and manage Azure IaaS Active Directory domain controllers in Azure

- Select an option to implement directory and identity services using Active Directory Domain Services in Azure
- Deploy and configure Active Directory Domain Services domain controllers in Azure VMs
- Install a replica Active Directory domain controller in an Azure VM
- Install a new Active Directory forest on an Azure VNet

7 - Perform Windows Server secure administration

- Define least privilege administration
- Implement delegated privileges
- Use privileged access workstations
- Use jump servers

8 - Describe Windows Server administration tools

- Explore Windows Admin Center
- Use Server Manager
- List Remote Server Administration Tools
- Use Windows PowerShell
- Use Windows PowerShell to remotely administer a server

9 - Perform post-installation configuration of Windows Server

- List the available post-installation configuration tools
- Configure Server Core using Sconfig
- Use DSC to configure Windows Server
- Perform post-installation configuration with Windows Admin Center
- Configure a server with answer files

10 - Just Enough Administration in Windows Server

- Explain the concept of Just Enough Administration (JEA)
- Define role capabilities for a JEA endpoint
- Create a session configuration file to register a JEA endpoint
- Describe how JEA endpoints work to limit access to a PowerShell session
- Create and connect to a JEA endpoint
- Demonstration: Connect to a JEA endpoint

11 - Administer and manage Windows Server IaaS Virtual Machine remotely

- Select the appropriate remote administration tool
- Manage Windows Virtual Machines with Azure Bastion
- Create an Azure Bastion host
- Configure just-in-time administration

12 - Manage hybrid workloads with Azure Arc

- Describe Azure Arc
- Onboard Windows Server instances
- Connect hybrid machines to Azure from the Azure portal
- Use Azure Arc to manage Windows Server instances
- Restrict access with RBAC

13 - Configure and manage Hyper-V

- Define Hyper-V
- Define Hyper-V Manager
- Configure Hyper-V hosts using best practices
- Configure Hyper-V networking
- Assess advanced Hyper-V networking features
- Define nested virtualization

14 - Configure and manage Hyper-V virtual machines

- List the virtual machine configuration versions
- List the virtual machine generation versions
- List available VHD formats and types
- Create and configure VMs
- Determine storage options for VMs
- Define shared VHDs and VHD Sets
- Implement guest clusters using shared VHDX

15 - Secure Hyper-V workloads

- Define guarded fabric
- Define the Host Guardian Service
- Explore TPM-trusted attestation
- Define KPS
- Determine key features of shielded VMs
- Compare encryption-supported and shielded VMs in a guarded fabric
- Implement a shielded VM

16 - Run containers on Windows Server

- Define containers
- List the differences between containers and VMs
- Define Windows Server and Hyper-V containers and isolation modes
- Explore Docker
- Prepare a Windows Server 2019 host for container deployment
- Security, Storage, and Networking with Windows containers

17 - Orchestrate containers on Windows Server using Kubernetes

- Define orchestration
- Define Kubernetes
- Deploy Kubernetes resources
- Create a Kubernetes cluster on Windows
- Define Azure Arc
- Connect an Azure Arc-enabled Kubernetes cluster to Azure Arc

18 - Plan and deploy Windows Server IaaS Virtual Machines

- Describe Azure compute
- Describe Virtual Machine storage
- Deploy Azure Virtual Machines
- Create a windows Virtual Machine using the portal
- Create a windows Virtual Machine using Azure CLI
- Deploy Azure Virtual Machines using templates
- Describe additional management optimization options

19 - Customize Windows Server IaaS Virtual Machine images

- Create a generalized image
- Create a new Virtual Machine from a managed image
- Create a managed image of a generalized virtual machine in Azure
- Create a Virtual Machine from a managed image
- Implement Azure Image Builder
- Create a windows Virtual Machine using Azure Image Builder template
- Create a Windows Virtual Machine with Azure Image Builder using PowerShell

20 - Automate the configuration of Windows Server IaaS Virtual Machines

- Describe Azure Automation
- Implement Azure Automation with DSC
- Remediate noncompliant servers
- Describe Custom Script Extensions
- Configure a Virtual Machine by using DSC

21 - Deploy and manage DHCP

- Use DHCP to simplify IP configuration
- Install and configure the DHCP role
- Configure DHCP options
- Configure DHCP scopes
- Select DHCP high availability options
- Implement DHCP Failover

22 - Implement Windows Server DNS

- Explore the DNS architecture
- Work with DNS zones and records
- Install and configure the DNS role
- Implement DNS forwarding

23 - Implement IP Address Management

- Define IP Address Management
- Deploy IP Address Management
- Administer IP Address Management
- Configure IP Address Management options
- Manage DNS zones with IP Address Management
- Manage DHCP servers with IP Address Management
- Use IP Address Management to manage IP addressing

24 - Implement remote access

- Examine the remote access options in Windows Server
- Select and set up VPNs
- Use NPS to create and enforce network access policies
- Plan and implement NPS
- Deploy a PKI for remote access
- Use WAP as a reverse web proxy

25 - Implement hybrid network infrastructure

- Describe Azure network topologies
- Implement Azure VPN options
- Create a route-based VPN gateway using the Azure portal
- Implement Azure ExpressRoute
- Configure Azure Virtual WAN
- Implement DNS in hybrid environments

26 - Implement DNS for Windows Server IaaS VMs

- Understand Azure DNS
- Implement Azure DNS
- Create an Azure DNS zone and record using the Azure portal
- Implement DNS with Azure IaaS virtual machines
- Implement split-horizon DNS in Azure
- Troubleshoot DNS

27 - Implement Windows Server IaaS VM IP addressing and routing

- Implement a virtual network
- Implement IaaS VM IP addressing
- Assign and manage IP addresses
- Configure a private IP address for a virtual machine using the Azure portal
- Create a virtual machine with a static public IP address using the Azure portal
- Implement IaaS virtual machine IP routing
- Implement IPv6 for Windows Server IaaS virtual machines

28 - Manage Windows Server file servers

- Define the Windows Server file system
- List the benefits and uses of File Server Resource Manager
- Define SMB and its security considerations
- Configure SMB protocol
- Define Volume Shadow Copy Service

29 - Implement Storage Spaces and Storage Spaces Direct

- Define the Storage Spaces architecture and its components
- List the functionalities, benefits, and use cases of Storage Spaces
- Implement Storage Spaces
- List the functionalities, components, and use cases of Storage Spaces Direct
- Implement Storage Spaces Direct

30 - Implement Windows Server Data Deduplication

- Define the architecture, and functionality of Data Deduplication
- Define the use cases and interoperability of Data Deduplication
- Implement Data Deduplication
- Manage and maintain Data Deduplication

31 - Implement Windows Server iSCSI

- List the functionalities, and use cases of iSCSI
- List the considerations for implementing iSCSI
- Implement iSCSI
- Configure high availability for iSCSI

32 - Implement Windows Server Storage Replica

- List the functionalities and components of Storage Replica
- Examine the prerequisites for implementing Storage Replica
- Implement Storage Replica by using Windows Admin Center
- Implement Storage Replica by using Windows PowerShell

33 - Implement a hybrid file server infrastructure

- Describe Azure File services
- Configure Azure Files
- Configure connectivity to Azure Files
- Describe Azure File Sync
- Implement Azure File Sync
- Deploy Azure File Sync
- Deploy Azure File Sync 2
- Manage cloud tiering
- Migrate from DFSR to Azure File Sync

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1 - Introduction to AD DS

- Define AD DS
- Define users, and computers
- Define AD DS forests and domains
- Define OUs
- Manage objects and their properties in AD DS
- Module assessment

2 - Manage AD DS domain controllers and FSMO roles

- Deploy AD DS domain controllers
- Maintain AD DS domain controllers
- Manage the AD DS Global Catalog role
- Manage AD DS operations masters
- Manage AD DS schema
- Module assessment

3 - Implement Group Policy Objects

- Define GPOs
- Implement GPO scope and inheritance
- Define domain-based GPOs
- Create and configure a domain-based GPO
- Define GPO storage
- Define administrative templates
- Module assessment

4 - Manage advanced features of AD DS

- Create trust relationships
- Implement ESAE forests
- Monitor and troubleshoot AD DS
- Create custom AD DS partitions
- Module assessment

5 - Implement hybrid identity with Windows Server

- Select a Microsoft Entra integration model
- Plan for Microsoft Entra integration
- Prepare on-premises Active Directory for directory synchronization
- Install and configure directory synchronization with Microsoft Entra Connect
- Implement Seamless Single Sign-On
- Enable Microsoft Entra login in for Windows VM in Azure
- Describe Microsoft Entra Domain Services
- Implement and configure Microsoft Entra Domain Services
- Manage Windows Server in a Microsoft Entra Domain Services environment
- Create and configure a Microsoft Entra Domain Services instance
- Join a Windows Server VM to a managed domain
- Module assessment

6 - Deploy and manage Azure IaaS Active Directory domain controllers in Azure

- Select an option to implement directory and identity services using Active Directory Domain Services in Azure
- Deploy and configure Active Directory Domain Services domain controllers in Azure VMs
- Install a replica Active Directory domain controller in an Azure VM
- Install a new Active Directory forest on an Azure VNet
- Module assessment

7 - Perform Windows Server secure administration

- Define least privilege administration
- Implement delegated privileges
- Use privileged access workstations
- Use jump servers
- Module assessment

8 - Describe Windows Server administration tools

- Explore Windows Admin Center
- Use Server Manager
- List Remote Server Administration Tools
- Use Windows PowerShell
- Use Windows PowerShell to remotely administer a server
- Module assessment

9 - Perform post-installation configuration of Windows Server

- List the available post-installation configuration tools
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- Onboard Windows Server instances
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- Module assessment

12 - Optimizing IT operations and management with Azure Automanage

- Describe concepts around Azure Automanage best practices
- Enable Azure Automanage best practices
- Create and assign a custom configuration profile
- Extend Azure Automanage across non-Azure infrastructure with Azure Arc
- Module assessment

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- Module assessment

, Implement hybrid identity with Windows Server, Manage advanced features of AD DS, Implement Group Policy Objects, Manage AD DS domain controllers and FSMO roles, Deploy and manage identity infrastructure, Deploy and manage Azure IaaS Active Directory domain controllers in Azure, Perform Windows Server secure administration, Describe Windows Server administration tools, Perform post-installation configuration of Windows Server, Just Enough Administration in Windows Server, Administer and manage Windows Server IaaS Virtual Machine remotely, Manage hybrid workloads with Azure Arc, Configure and manage Hyper-V, Configure and manage Hyper-V virtual machines, Automate the configuration of Windows Server IaaS Virtual Machines, Deploy and manage DHCP, Implement Windows Server DNS, Implement Storage Spaces and Storage Spaces Direct, Manage Windows Server file servers, Implement Windows Server IaaS VM IP addressing and routing, Implement DNS for Windows Server IaaS VMs, Implement hybrid network infrastructure, Implement remote access, Implement IP Address Management, Run containers on Windows Server, Secure Hyper-V workloads, Orchestrate containers on Windows Server using Kubernetes, Customize Windows Server IaaS Virtual Machine images, Plan and deploy Windows Server IaaS Virtual Machines, Implement a hybrid file server infrastructure, Implement Windows Server Storage Replica, Implement Windows Server Data Deduplication, Implement Windows Server iSCSI, Manage Windows Servers and workloads in a hybrid environment, Manage virtualization and containers in a hybrid environment, Implement and operate an on-premises and hybrid networking infrastructure, Configure storage and file services, LAB Outline

Certification Path

Microsoft Certified: Windows Server Hybrid Administrator Associate

Exam: AZ-800

Upcoming Schedule

Available training dates for AZ-800T00: Administering Windows Server Hybrid Core Infrastructure:

Start Date	End Date	Location	Delivery	Price
30 Nov 2026	03 Dec 2026	Online	Virtual	€2,495.00

Additional Course Details

Nexus Humans AZ-800 Administering Windows Server Hybrid Core Infrastructure training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the AZ-800 Administering Windows Server Hybrid Core Infrastructure course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for AZ-800T00: Administering Windows Server Hybrid Core Infrastructure?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: What certification does this course prepare me for?

The AZ-800T00: Administering Windows Server Hybrid Core Infrastructure course helps prepare you for the Microsoft Certified: Windows Server Hybrid Administrator Associate certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the AZ-800 official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

Q: How many CPD hours does this course provide?

The 4-day AZ-800T00: Administering Windows Server Hybrid Core Infrastructure course provides up to 26.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the AZ-800T00: Administering Windows Server Hybrid Core Infrastructure training?

The training takes place over 4 day(s), with each day lasting approximately 32.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for AZ-800T00: Administering Windows Server Hybrid Core Infrastructure?

Yes, we provide corporate training, dedicated training, and closed classes for AZ-800T00: Administering Windows Server Hybrid Core Infrastructure. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: AZ-800T00: Administer Windows Server Hybrid Core Infrastructure, Microsoft, vILT, AZ-800T00

Q: Why choose Nexus Human for AZ-800T00: Administering Windows Server Hybrid Core Infrastructure?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your AZ-800T00: Administering Windows Server Hybrid Core Infrastructure training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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