AZ-801T00: Configuring Windows Server Hybrid Advanced Services

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-801

Course Overview

This course teaches IT Professionals to configure advanced Windows Server services using on-premises, hybrid, and cloud technologies. The course teaches IT Professionals how to leverage the hybrid capabilities of Azure, how to migrate virtual and physical server workloads to Azure IaaS, and how to secure Azure VMs running Windows Server. The course also teaches IT Professionals how to perform tasks related to high availability, troubleshooting, and disaster recovery. The course highlights administrative tools and technologies including Windows Admin Center, PowerShell, Azure Arc, Azure Automation Update Management, Microsoft Defender for Identity, Azure Security Center, Azure Migrate, and Azure Monitor.

About This Course

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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 who already implement and manage on-premises core technologies want to secure and protect their environments, migrate virtual and physical workloads to Azure Iaas, enable a highly available, fully redundant environment, and perform monitoring and troubleshooting.

Prerequisites & Entry Requirements

General Prerequisites:

An understanding of the following concepts as related to Windows Server technologies:

- High availability and disaster recovery
- Automation
- Monitoring
- Troubleshooting

Learning Outcomes

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

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Detailed Course Outline

1 - Secure Windows Server user accounts

- Configure user account rights
- Protect user accounts with the Protected Users group
- Describe Windows Defender Credential Guard
- Block NTLM authentication
- Locate problematic accounts

2 - Hardening Windows Server

- Describe Local Password Administrator Solution
- Configure Privileged Access Workstations
- Secure domain controllers
- Analyze security configuration with Security Compliance Toolkit
- Secure SMB traffic

3 - Windows Server update management

- Explore Windows Update
- Outline Windows Server Update Services server deployment options
- Define Windows Server Update Services update management process
- Describe the process of Update Management

4 - Secure Windows Server DNS

- Implement split-horizon DNS
- Create DNS policies
- Implement DNS policies
- Secure Windows Server DNS
- Implement DNSSEC

5 - Implement Windows Server IaaS VM network security

- Implement network security groups and Windows IaaS VMs
- Implement adaptive network hardening
- Implement Azure Firewall and Windows IaaS VMs
- Implement Windows firewall with Windows Server IaaS VMs
- Choose the appropriate filtering solution
- Deploy and configure Azure firewall using the Azure portal
- Capture network traffic with network watcher
- Log network traffic to and from a VM using the Azure portal

6 - Audit the security of Windows Server IaaS Virtual Machines

- Describe Azure Security Center
- Enable Azure Security Center in hybrid environments
- Implement and assess security policies
- Protect your resources with Azure Security Center
- Implement Azure Sentinel

7 - Manage Azure updates

- Describe update management
- Enable update management
- Deploy updates
- View update assessments
- Manage updates for your Azure Virtual Machines

8 - Create and implement application allowlists with adaptive application control

- Describe adaptive application control
- Implement adaptive application control policies

9 - Configure BitLocker disk encryption for Windows IaaS Virtual Machines

- Describe Azure Disk Encryption and server-side encryption
- Configure Key Vault for Azure Disk Encryption
- Encrypt Azure IaaS Virtual Machine hard disks
- Back up and recover data from encrypted disks
- Create and encrypt a Windows Virtual Machine

10 - Implement change tracking and file integrity monitoring for Windows IaaS VMs

- Implement Change Tracking and Inventory
- Manage Change Tracking and Inventory
- Manage tracked files
- Implement File Integrity Monitoring
- Select and monitor entities
- Use File Integrity Monitoring

11 - Introduction to Cluster Shared Volumes

- Determine the functionality of Cluster Shared Volumes
- Explore the architecture and components of Cluster Shared Volumes
- Implement Cluster Shared Volumes

12 - Implement Windows Server failover clustering

- Define Windows Server failover clustering
- Plan Windows Server failover clustering
- Implement Windows Server failover clustering
- Manage Windows Server failover clustering
- Implement stretch clusters
- Define cluster sets

13 - Implement high availability of Windows Server VMs

- Select high-availability options for Hyper-V
- Consider network load balancing for Hyper-V VMs
- Implement Hyper-V VM live migration
- Implement Hyper-V VMs storage migration

14 - Implement Windows Server File Server high availability

- Explore the Windows Server File Server high-availability options
- Define Cluster Shared Volumes
- Implement Scale-Out File Server
- Implement Storage Replica

15 - Implement scale and high availability with Windows Server VM

- Describe virtual machine scale sets
- Implement scaling
- Implement load-balancing VMs
- Create a virtual machine scale set in the Azure portal
- Describe Azure Site Recovery
- Implement Azure Site Recovery

16 - Implement Hyper-V Replica

- Define Hyper-V Replica
- Plan for Hyper-V Replica
- Configure and implement Hyper-V Replica
- Define extended replication
- Define Azure Site Recovery
- Implement Site Recovery from on-premises site to Azure
- Implement Site Recovery from on-premises site to on-premises site

17 - Protect your on-premises infrastructure from disasters with Azure Site Recovery

- Azure Site Recovery overview
- Workloads supported for protection with Azure Site Recovery
- Run a disaster recovery drill
- Failover and failback

18 - Implement hybrid backup and recovery with Windows Server IaaS

- Describe Azure Backup
- Implement recovery vaults
- Implement Azure Backup policies
- Recover Windows IaaS Virtual Machines
- Perform file and folder recovery
- Perform backup and restore of on-premises workloads
- Manage Azure Virtual Machine backups with Azure Backup service

19 - Protect your Azure infrastructure with Azure Site Recovery

- What is Azure Site Recovery
- Prepare for disaster recovery with Azure Site Recovery
- Run a disaster recovery drill
- Failover and failback using Azure Site Recovery

20 - Protect your virtual machines by using Azure Backup

- Azure Backup features and scenarios
- Back up an Azure virtual machine by using Azure Backup
- Restore virtual machine data

21 - Active Directory Domain Services migration

- Examine upgrade vs. migration
- Upgrade a previous version of Active Directory Domain Services to Windows Server 2022
- Migrate to Active Directory Domain Services in Windows Server 2022 from a previous version
- Explore the Active Directory Migration Tool

22 - Migrate file server workloads using Storage Migration Service

- Storage Migration Service overview and usage scenarios
- Storage migration requirements
- Migrate a server with Storage migration
- Evaluate storage migration considerations

23 - Migrate Windows Server roles

- Describe the Windows Server Migration Tools
- Install the Migration Tools
- Migrate roles using the Migration Tools

24 - Migrate on-premises Windows Server instances to Azure IaaS virtual machines

- Plan your migration
- Describe Azure Migrate
- Perform server assessment
- Assess physical servers with Azure Migrate
- Migrate Windows Server workloads by using Azure Migrate

25 - Upgrade and migrate Windows Server IaaS virtual machines

- Describe Azure Migrate
- Migrate Windows Server workloads by using Azure Migrate
- Describe storage migration
- Migrate file servers by using Storage Migration Service

26 - Containerize and migrate ASP.NET applications to Azure App Service

- Azure Migrate App Containerization overview

27 - Monitor Windows Server performance

- Use Performance Monitor to identify performance problems
- Use Resource Monitor to review current resource usage
- Review reliability with Reliability Monitor
- Implement a performance monitoring methodology
- Use Data Collector Sets to analyze server performance
- Monitor network infrastructure services
- Monitor virtual machines running Windows Server
- Monitor performance with Windows Admin Center
- Use System Insights to help predict future capacity issues
- Optimize the performance of Windows Server

28 - Manage and monitor Windows Server event logs

- Describe Windows Server event logs
- Use Windows Admin Center to review logs
- Use Server Manager to review logs
- Use custom views
- Implement event log subscriptions

29 - Implement Windows Server auditing and diagnostics

- Describe basic auditing categories
- Describe advanced categories
- Log user access
- Enable setup and boot event collection

30 - Troubleshoot Active Directory

- Recover objects from the AD recycle bin
- Recover the AD DS database
- Recover SYSVOL
- Troubleshoot AD DS replication
- Troubleshoot hybrid authentication issues

31 - Monitor Windows Server IaaS Virtual Machines and hybrid instances

- Enable Azure Monitor for Virtual Machines
- Monitor an Azure Virtual Machine with Azure Monitor
- Enable Azure Monitor in hybrid scenarios
- Collect data from a Windows computer in a hybrid environment
- Integrate Azure Monitor with Microsoft Operations Manager

32 - Monitor your Azure virtual machines with Azure Monitor

- Monitoring for Azure VMs
- Monitor VM host data
- Use Metrics Explorer to view detailed host metrics
- Collect client performance counters by using VM insights
- Collect VM client event logs

33 - Troubleshoot on-premises and hybrid networking

- Diagnose DHCP problems
- Diagnose DNS problems
- Diagnose IP configuration issues
- Diagnose routing problems
- Use Packet Monitor to help diagnose network problems
- Use Azure Network Watcher to help diagnose network problems

34 - Troubleshoot Windows Server Virtual Machines in Azure

- Troubleshoot VM deployment
- Troubleshoot VM startup
- Troubleshoot VM extensions
- Troubleshoot VM connectivity
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- Troubleshoot VM storage

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- Deploy and configure Azure firewall using the Azure portal
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- Module assessment

2 - Audit the security of Windows Server IaaS Virtual Machines

- Describe Microsoft Defender for Cloud
- Enable Microsoft Defender for Cloud in hybrid environments
- Implement and assess security policies
- Protect your resources with Microsoft Defender for Cloud
- Implement Microsoft Sentinel
- Module assessment

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Active Directory Domain Services migration, Migrate file server workloads using Storage Migration Service, Migrate Windows Server roles, Migrate on-premises Windows Server instances to Azure IaaS virtual machines, Upgrade and migrate Windows Server IaaS virtual machines, Monitor the health of your Azure virtual machine by using Azure Metrics Explorer and metric alerts, Monitor the performance of virtual machines by using Azure Monitor VM Insights, Implement Windows Server auditing and diagnostics, Troubleshoot Active Directory, Monitor Windows Server IaaS Virtual Machines and hybrid instances, Monitor Windows Server performance, Manage and monitor Windows Server event logs, Containerize and migrate ASP.NET applications to Azure App Service, Implement hybrid backup and recovery with Windows Server IaaS, Protect your on-premises infrastructure from disasters with Azure Site Recovery, Implement Hyper-V Replica, Protect your Azure infrastructure with Azure Site Recovery, Protect your virtual machines by using Azure Backup, LAB Outline, Secure Windows Server on-premises and hybrid infrastructures, Implement Windows Server high availability, Implement disaster recovery in Windows Server on-premises and hybrid environments, Migrate servers and workloads in on-premises and hybrid environments, Monitor and troubleshoot Windows Server environments, Troubleshoot Windows Server Virtual Machines in Azure, Troubleshoot on-premises and hybrid networking

□□ Certification Path

Microsoft Certified: Windows Server Hybrid Administrator Associate

Exam: AZ-801

Upcoming Schedule

Available training dates for AZ-801T00: Configuring Windows Server Hybrid Advanced Services:

Start Date	End Date	Location	Delivery	Price
28 Dec 2026	31 Dec 2026	Online	Virtual	€2,495.00

Additional Course Details

Nexus Humans AZ-801 Configuring Windows Server Hybrid Advanced Services 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-801 Configuring Windows Server Hybrid Advanced Services 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-801T00: Configuring Windows Server Hybrid Advanced Services?

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-801T00: Configuring Windows Server Hybrid Advanced Services 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-801 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-801T00: Configuring Windows Server Hybrid Advanced Services 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-801T00: Configuring Windows Server Hybrid Advanced Services 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-801T00: Configuring Windows Server Hybrid Advanced Services?

Yes, we provide corporate training, dedicated training, and closed classes for AZ-801T00: Configuring Windows Server Hybrid Advanced Services. 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-801T00: Configure Windows Server Hybrid Advanced Services, Microsoft, vILT, AZ-801T00

Q: Why choose Nexus Human for AZ-801T00: Configuring Windows Server Hybrid Advanced Services?

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-801T00: Configuring Windows Server Hybrid Advanced Services 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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