MICROSOFT OFFICIAL CURRICULUM

Administer Windows Server

Official Microsoft Learn-aligned instructor-led program for Administer Windows Server.

Microsoft | AZ-802T00

DURATION	LEVEL	FORMAT	CERTIFICATION
5 days	Intermediate	Virtual, On-site, or Hybrid	AZ-802T00

AUDIENCE PROFILE

Built for these roles

This course is intended for Windows Server administrators who deploy, implement, manage, and troubleshoot Windows Server as a workload in on-premises, cloud, or hybrid environments. Candidates administer identity, security, compute, networking, storage, and monitoring for Windows Server, and they typically collaborate with architects, administrators, and engineers. Candidates should have experience administering Windows Server using technologies such as Windows Admin Center, Hyper-V, PowerShell, Azure Arc, Azure Monitor, Azure Update Manager, and Microsoft Defender for Cloud, and should be familiar with Active Directory Domain Services (AD DS).

OVERVIEW

Executive overview

This course teaches IT professionals how to deploy, manage, secure, and troubleshoot Windows Server workloads across on-premises, hybrid, and cloud environments. The course covers Active Directory Domain Services, Hyper-V and Azure virtual machines, on-premises and hybrid networking, storage and file services, Windows Server security hardening, and monitoring and troubleshooting. It highlights administrative tools and technologies including Windows Admin Center, PowerShell, Azure Arc, Azure Monitor, Azure Update Manager, and Microsoft Defender for Cloud.

View official source

READINESS

Prerequisites

- Relevant foundational experience in the target technology area.
- Comfort with hands-on labs in a cloud or GPU-accelerated environment.

PROGRAM OUTCOMES

Capabilities your teams will gain

- Strengthen capability in administrator scenarios
- Strengthen capability in azure scenarios

ENTERPRISE CUSTOMIZATION

Enterprise customization

Tailor this program to your organization's priorities: Builds current Microsoft credential readiness for Administer Windows Server using the official Microsoft Learn outline.

- Align labs to your production environment and platform priorities
- Add readiness reviews and instructor-led practice sessions
- Extend into project-specific architecture or delivery coaching

CURRICULUM

Curriculum roadmap

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MODULE 1

Deploy and manage Active Directory Domain Services

Learn how to deploy and manage Active Directory Domain Services domain controllers, security principals, multi-site environments, and Group Policy in on-premises and cloud scenarios.

- Deploy and manage Active Directory Domain Services domain controllers
- Deploy and manage Azure IaaS Active Directory domain controllers in Azure
- Manage AD DS domain controllers and FSMO roles
- Create and manage Active Directory objects
- Implement hybrid identity with Windows Server
- Create and configure Group Policy Objects in Active Directory
- Implement Group Policy Objects
- Manage advanced features of AD DS

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MODULE 2

Manage Windows Server instances and workloads in a hybrid environment

Learn how to configure remote management and manage Windows Server workloads using Azure services in a hybrid environment.

- Administer and manage Windows Server IaaS Virtual Machine remotely
- Describe Windows Server administration tools
- Just Enough Administration in Windows Server
- Perform Windows Server secure administration
- Use advanced Windows PowerShell remoting techniques
- Manage single and multiple computers by using Windows PowerShell remoting
- Manage hybrid workloads with Azure Arc
- Manage Azure updates
- Automate the configuration of Windows Server IaaS Virtual Machines
- Enforce VM security configuration with Azure Machine Configuration
- Explore Azure Automation with DevOps

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MODULE 3

Manage virtual machines

Learn how to manage Hyper-V and guest virtual machines on-premises and manage Windows Server virtual machines in Azure.

- Configure and manage Hyper-V virtual machines
- Configure and manage Hyper-V
- Secure Hyper-V workloads
- Implement high availability of Windows Server VMs
- Run containers on Windows Server
- Plan and deploy Windows Server IaaS Virtual Machines
- Implement scale and high availability with Windows Server VM
- Implement Windows Server IaaS VM IP addressing and routing
- Implement Windows Server IaaS VM network security

- Administer and manage Windows Server IaaS Virtual Machine remotely

4 MODULE 4

Implement and manage an on-premises and hybrid networking infrastructure

Learn how to implement on-premises and hybrid name resolution with DNS and manage IP addressing with DHCP in hybrid scenarios.

- Implement Windows Server DNS
- Implement DNS for Windows Server IaaS VMs
- Secure Windows Server DNS
- Deploy and manage DHCP
- Implement IP Address Management
- Implement Windows Server IaaS VM IP addressing and routing

5 MODULE 5

Manage storage and file services

Learn how to configure and manage Azure Files, Windows Server file shares, and Windows Server storage including Storage Spaces and Storage Spaces Direct.

- Implement a hybrid file server infrastructure
- 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

6 MODULE 6

Secure Windows Server infrastructure

Learn how to secure the Windows Server operating system and Active Directory Domain Services using security features, policies, and hardening techniques.

- Manage Microsoft Defender for Endpoint
- Manage Microsoft Defender in Windows client
- Understand Active Directory Group Policy security settings
- Manage security in Active Directory
- Understand Windows Server service accounts
- Secure Windows Server user accounts
- Manage security controls for identity and access
- Security monitoring and governance

7 MODULE 7

Monitor and troubleshoot Windows Server environments

Learn how to monitor Windows Server environments using built-in tools and Azure services, and troubleshoot Windows Server networking, Active Directory, and system issues.

- Monitor Windows Server performance
- Manage and monitor Windows Server event logs
- Implement Windows Server auditing and diagnostics
- Monitor Windows Server IaaS Virtual Machines and hybrid instances
- Monitor your Azure virtual machines with Azure Monitor

- Troubleshoot on-premises and hybrid networking
- Troubleshoot Windows Server Virtual Machines in Azure
- Windows Server update management
- Troubleshoot Active Directory

PRIVATE DELIVERY

Plan a private cohort for your team

Scope delivery format, role mix, and rollout timeline with our solutions team.

Plan Private Delivery

Book advisory call