# Administer Windows Server Training

Duration: **5 Day**

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## Overview

What Can You Achieve with This Training?

- Build the skills to **deploy, administer, secure, and troubleshoot Windows Server** across on-premises, hybrid, and cloud environments.
- Manage identity services through **Active Directory Domain Services (AD DS)**, domain controllers, user accounts, and Group Policy.
- Configure **Hyper-V and Azure virtual machines** to support virtualization, remote administration, and high availability.
- Simplify server administration and automate repetitive tasks with **PowerShell, Windows Admin Center, and Azure Arc**.
- Improve the reliability of Windows Server environments by managing **networking, storage, file services, and security policies**.
- Support monitoring, updates, and security management with **Azure Monitor, Azure Update Manager, and Microsoft Defender for Cloud**.

The **Administer Windows Server Training** is a comprehensive technical course designed to develop the skills required to **deploy, manage, secure, and troubleshoot Windows Server workloads** across on-premises, hybrid, and cloud environments.

The programme covers the core responsibilities of Windows Server administration, including **identity management, virtualization, networking, storage, security, and monitoring**.

The identity management modules focus on **Active Directory Domain Services (AD DS)**, domain controllers, **FSMO roles**, Active Directory objects, and **Group Policy Objects (GPOs)**. Participants also explore hybrid identity configurations involving Windows Server.

Server administration and automation topics introduce tools such as **Windows Admin Center, Windows PowerShell, Azure Arc, and Azure Automation**. The course examines remote administration, secure management practices, and automation of virtual machine configuration.

Participants also explore **Hyper-V and Azure IaaS virtual machines**, DNS, DHCP, IP address management, file servers, and advanced storage technologies. Security-related topics include protecting Windows Server workloads and enforcing virtual machine security settings through **Azure Machine Configuration**.

The course is designed to help IT professionals manage Windows Server infrastructure **consistently, securely, and efficiently across different deployment environments**.

### Exams and Assessments

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The **AZ-802 examination** is available separately from the training course.

## Prerequisites

Participants should have experience administering **Windows Server** and be familiar with the following technologies:

- **Windows Admin Center**
- **Hyper-V**
- **Windows PowerShell**
- **Azure Arc**
- **Azure Monitor**
- **Azure Update Manager**
- **Microsoft Defender for Cloud**
- **Active Directory Domain Services (AD DS)**

## Who Should Attend

This course is intended for **Windows Server administrators** responsible for deploying, implementing, administering, and troubleshooting Windows Server workloads in **on-premises, cloud, and hybrid environments**.

It is particularly relevant to professionals working in:

- **Identity and access management**
- **Server and virtualization infrastructure**
- **Networking and storage services**
- **Security and compliance**
- **System monitoring and troubleshooting**

The course is also suitable for Windows Server professionals who collaborate with infrastructure architects, administrators, and engineers.

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## What You Will Learn

By the end of this course, participants will be able to:

- Deploy, administer, and secure **Windows Server workloads** across on-premises, hybrid, and cloud environments.
- Manage **Active Directory Domain Services**, configure domain controllers, and administer **FSMO roles**.
- Create and manage **Active Directory objects, Group Policy Objects, and hybrid identity** configurations.
- Perform server administration tasks using **Windows Admin Center and PowerShell**.
- Manage remote systems with **PowerShell Remoting** and automate **Azure IaaS virtual machine** configuration.
- Administer hybrid workloads through **Azure Arc** and support update management with tools such as **Azure Update Manager**.
- Configure and manage **Hyper-V and Azure virtual machines**, including security, scalability, and high-availability capabilities.
- Deploy and administer **DNS, DHCP, IP addressing, routing, and IPAM** services.
- Manage file servers and storage technologies, including **Storage Spaces, Storage Spaces Direct, Data Deduplication, iSCSI, and Storage Replica**.
- Enforce virtual machine security settings through **Azure Machine Configuration**.
- Strengthen **Windows Server security configurations** and apply relevant security policies.
- Support monitoring, security assessment, and troubleshooting with tools such as **Azure Monitor and Microsoft Defender for Cloud**.

## Outline

### 1. Active Directory Domain Services and Identity Management

- Deploying and administering **Active Directory Domain Services (AD DS) domain controllers**
- Deploying and managing **Azure IaaS Active Directory domain controllers** in Azure
- Managing **AD DS domain controllers and FSMO roles**
- Creating, configuring, and administering **Active Directory objects**
- Implementing **hybrid identity** with Windows Server

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- Creating and configuring **Group Policy Objects (GPOs)** in Active Directory

### 2. Windows Server Administration Tools and Secure Administration

- Exploring **Windows Server administration tools** and their capabilities
- Understanding **Just Enough Administration (JEA)** in Windows Server
- Applying **secure Windows Server administration** practices

### 3. Remote Management and Automation

- Using advanced **Windows PowerShell Remoting** techniques
- Managing **individual and multiple computers** through PowerShell Remoting
- Remotely administering **Windows Server IaaS virtual machines**
- Automating the configuration of **Windows Server IaaS virtual machines**
- Exploring **Azure Automation** in connection with **DevOps** practices

### 4. Hybrid Management and Updates

- Managing **hybrid workloads** with **Azure Arc**
- Administering **Azure updates** and related update processes

### 5. Hyper-V and Virtual Machine Management

- Configuring and administering **Hyper-V virtual machines**
- Configuring and managing the **Hyper-V platform**
- Applying security measures to **Hyper-V workloads**
- Implementing **high availability** for Windows Server virtual machines
- Planning and deploying **Windows Server IaaS virtual machines**
- Implementing **scalability and high availability** for Windows Server VM environments

### 6. Networking

- Configuring **IP addressing and routing** for Windows Server IaaS virtual machines
- Implementing **network security** for Windows Server IaaS virtual machines
- Deploying and configuring **Windows Server DNS**
- Configuring DNS for **Windows Server IaaS virtual machines**
- Securing **Windows Server DNS** services

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- Deploying and administering **DHCP**
- Implementing **IP Address Management (IPAM)**

### 7. Storage and File Services

- Implementing a **hybrid file server infrastructure**
- Administering **Windows Server file servers**
- Configuring **Storage Spaces and Storage Spaces Direct**
- Implementing **Windows Server Data Deduplication**
- Configuring **Windows Server iSCSI**
- Implementing **Windows Server Storage Replica**

### 8. Security and Compliance

- Enforcing **virtual machine security configurations** through **Azure Machine Configuration**