

Modern Windows Server Administration with Microsoft Azure

5 Days

Course Overview

This five-day course provides practical training on modern Windows Server administration in hybrid and Microsoft Azure environments. Participants will learn how to manage identity and directory services, automate server administration, configure networking and storage, implement security and high availability, and perform backup, recovery, migration, monitoring, and troubleshooting.

The course combines core Windows Server administration with Azure services such as Microsoft Entra ID, Azure Arc-enabled Servers, Azure Update Manager, Azure Files, Microsoft Defender for Servers, Azure Backup, Azure Site Recovery, and Azure Migrate.

Prerequisites

Participants should have:

- Basic Windows Server administration experience
- Knowledge of Active Directory concepts
- Basic networking knowledge (DNS, DHCP, TCP/IP)
- Familiarity with virtualization concepts
- Basic Azure fundamentals (AZ-900 level knowledge recommended)
- Experience using PowerShell is beneficial but not mandatory

Day 1: Identity & Directory Services

- Introduction to Windows Server Hybrid Administration
- Active Directory Domain Services (AD DS)
- Users, Groups, and Organizational Units (OUs)
- Group Policy Management
- Microsoft Entra ID Integration

Day 2: Windows Server Management & Automation

- Windows Admin Center
- PowerShell Administration
- Azure Arc-enabled Servers
- Azure Update Manager
- Remote Server Management

Day 3: Networking & Storage Services

- DNS Administration
- DHCP Administration
- Hybrid Network Connectivity
- Azure Files and File Synchronization

Day 4: Security & High Availability

- Windows Server Security Fundamentals
- Microsoft Defender for Servers
- Windows Local Administrator Password Solution (LAPS)
- Failover Clustering
- Storage Spaces Direct

Day 5: Backup, Recovery & Migration

- Azure Backup
- Azure Site Recovery
- Azure Migrate
- Monitoring and Troubleshooting
- Course Review and Best Practices