
Windows Server Professional + Advanced Level

WINDOWS SERVER PROFESSIONAL LEVEL

MODULE 1: WINDOWS SERVER ADMINISTRATION OVERVIEW

- Overview of Windows Server administration principles and tools
- Introducing Windows Server 2019
- Windows Server Core Overview

MODULE 2: IDENTITY SERVICES IN WINDOWS SERVER

- Overview of AD DS
- Deploying Windows Server domain controllers
- Overview of Azure AD
- Implementing Group Policy
- Overview of Active Directory Certificate Services

MODULE 3: NETWORK INFRASTRUCTURE SERVICES IN WINDOWS SERVER

- Deploying and managing DHCP
- Deploying and managing DNS services
- Deploying and managing IPAM

MODULE 4: FILE SERVERS AND STORAGE MANAGEMENT IN WINDOWS SERVER

- Volumes and file systems in Windows Server
- Implementing sharing in Windows Server
- Implementing Storage Spaces in Windows Server
- Implementing Data Deduplication
- Implementing iSCSI
- Deploying Distributed File System

MODULE 5: HYPER-V VIRTUALIZATION AND CONTAINERS IN WINDOWS SERVER

- Hyper-V in Windows Server
- Configuring VMs
- Securing virtualization in Windows Server
- Containers in Windows Server
- Overview of Kubernetes

MODULE 6: HIGH AVAILABILITY IN WINDOWS SERVER

- Planning for failover clustering implementation
- Creating and configuring failover cluster
- Overview of stretch clusters
- High availability and disaster recovery solutions with Hyper-V VMs

MODULE 7: DISASTER RECOVERY IN WINDOWS SERVER

- Hyper-V Replica
- Backup and restore infrastructure in Windows Server

MODULE 8: WINDOWS SERVER SECURITY

- Credentials and privileged access protection in Windows Server
- Hardening Windows Server
- Just Enough Administration in Windows Server
- Securing and analyzing SMB traffic
- Windows Server update management

MODULE 9: REMOTE DESKTOP SERVICES IN WINDOWS SERVER

- Remote Desktop Services Overview
- Configuring a session-based desktop deployment
- Overview of personal and pooled virtual desktops

MODULE 10: REMOTE ACCESS AND WEB SERVICES IN WINDOWS SERVER

- Overview of RAS in Windows Server
- Implementing VPNs
- Implementing NPS
- Implementing Always On VPN
- Implementing Web Server in Windows Server

MODULE 11: MONITORING, PERFORMANCE, AND TROUBLESHOOTING

- Overview of Windows Server monitoring tools
- Using Performance Monitor
- Monitoring event logs for troubleshooting

MODULE 12: UPGRADE AND MIGRATION IN WINDOWS SERVER

- AD DS migration
- Storage Migration Service
- Windows Server migration tools

WINDOWS SERVER ADVANCED LEVEL

MODULE 1: INTRODUCING AZURE HYBRID IAAS WITH WINDOWS SERVER 2019

- Overview of Azure IaaS
- Overview of the Azure hybrid model
- Using hybrid admin tools

MODULE 2: IMPLEMENTING IDENTITY IN HYBRID SCENARIOS

- Implementing AD DS on Azure IaaS
- Integrating AD DS with Azure AD
- Implementing managed AD DS environments

MODULE 3: FACILITATING HYBRID MANAGEMENT AND OPERATIONAL MONITORING IN HYBRID SCENARIOS

- Windows Admin Center
- Azure Arc
- Azure Monitor
- Azure Automation

MODULE 4: IMPLEMENTING SECURITY SOLUTIONS IN HYBRID SCENARIOS

- Azure Security Center
- Azure Sentinel
- Managing Windows Updates

MODULE 5: IMPLEMENTING FILE SERVICES IN HYBRID SCENARIOS

- Implementing Azure Files
- Implementing Azure File Sync

MODULE 6: DEPLOYING AND CONFIGURING AZURE VMs

- Deploying Azure VMs
- Configuring Azure VM networking
- Configuring Azure VM storage
- Configuring Azure VM security

MODULE 7: MANAGING AND MAINTAINING AZURE VMs

- Managing Azure VMs running Windows Server 2019
- Maintaining Azure VMs running Windows Server 2019

MODULE 8: PLANNING AND IMPLEMENTING MIGRATION AND RECOVERY SERVICES IN HYBRID SCENARIOS

- Azure Migrate
- Storage Migration Server
- Azure Site Recovery
- Storage Replica
- Azure Backup