

# Administering Windows Server Hybrid Core Infrastructure



# Online Course

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# Administering Windows Server Hybrid Core Infrastructure

## 1: Deploy and manage AD DS domain controllers

- Deploy and manage domain controllers on-premises
- Deploy and manage domain controllers in Azure
- Deploy RODCs
- Troubleshoot FSMO roles



## 2: Multi-site, multi-domain, & multi-forest environments

- Configure and manage forest and domain trusts
- Configure and manage AD DS sites
- Configure and manage AD DS replication

## 3: Create and manage AD DS security principals

- Create and manage AD DS users and groups
- Users and groups in multi-domain and multi-forest scenarios
- Implement Group Managed Service Accounts (gMSAs)
- Join AD DS, Azure AD Domain Services, and MS Azure AD

## 4: Implement and manage hybrid identities

- Intgt MS Azure's MS Entra, AD DS & Azure AD Domain Services
- Implement Azure AD Connect
- Manage Azure AD Connect synchronization
- Implement Azure AD Connect cloud sync
- Manage Azure AD Domain Services





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## 5: Windows Server by using domain-based Group Policies

- Implement Group Policy in AD DS
- Implement Group Policy Preferences in AD DS
- Implement Group Policy in Azure AD Domain Services

## 6: Manage Windows Servers in a hybrid environment

- Deploy a Windows Admin Center Gateway server
- Configure a target machine for Windows Admin Center
- Configure PowerShell remoting
- CredSSP or Kerberos Delegation for 2nd Hop Remoting
- Configure JEA for PowerShell remoting

## 7: Windows Servers & workloads by using Azure services

- Manage Windows Servers by using Azure Arc
- Assign Azure Policy that uses guest config extension
- Deploy Azure services
- Manage updates for Windows machines
- Integrate Windows Servers with Log Analytics
- Integrate Windows Servers with Microsoft Defender for Cloud
- Manage IaaS VMs in Azure that run Windows Server

## 8: Create and manage containers

- Create Windows Server container images
- Manage Windows Server container images
- Configure container networking
- Manage container instances



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## 9: Manage Hyper-V and guest virtual machines

- Enable VM Enhanced session mode
- Manage VM using PowerShell remoting, Direct and SSH Direct
- Configure VM Memory
- Configure VM CPU groups
- Configure hypervisor scheduling types
- Manage VM checkpoints
- Manage VHD and VHDX files
- Configure Hyper-V Network Adapter
- Configure NIC Teaming
- Configure Hyper-V Switch



## 10: Manage Azure Virtual Machines that run Windows Server

- Manage data disks
- Resize Azure VM
- Configure continuous delivery for an Azure VM
- Configure connections to VMs
- Manage Azure VM network configuration

## 11: Implement on-premises and hybrid name resolution

- Integrate DNS with AD DS
- Create and manage DNS zones and records
- Configure DNS forwarding/conditional forwarding
- Integrate Windows Server DNS with Azure DNS private zones
- Implement DNSSEC



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## 12. Manage IP addressing in on-premises and hybrid scenarios

- Implement and manage IPAM
- Configure the DHCP server role (on-premises only)
- Resolve IP address issues in hybrid environments
- Create and manage DHCP scopes
- Create and manage IP reservations
- Implement DHCP high availability

## 13: Implement on-premises and hybrid network connectivity

- Implement and manage the Remote Access role
- Implement and manage Azure Network Adapter
- Implement and manage Azure extended network
- Implement and manage Network Policy Server role
- Implement Web Application Proxy
- Implement site-to-site VPN

## 14: Configure and manage Azure File Sync

- Create Azure File Sync Service
- Create sync groups
- Create cloud endpoints
- Register servers
- Create server endpoints
- Configure cloud tiering
- Monitor File Sync
- Migrate DFS to Azure File Sync



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## 15. Configure and manage Windows Server file shares

- Configure Windows Server file share access
- Configuring file screens
- Configure FSRM quotas
- Configure BranchCache
- Implement and configure Distributed File System (DFS)

## 16. Configure Windows Server storage

- Configure disks and volumes
- Configure and manage Storage Spaces
- Configure and manage Storage Replica
- Configure Data Deduplication
- Configure SMB direct
- Configure Storage QoS
- Configure file systems



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