

Configuring Windows Server Hybrid Advanced Services



Online Course

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Configuring Windows Server Hybrid Advanced Services

Course Modules



1. Secure Windows Server operating system

- Configure and manage Exploit Protection
- Configure and manage Windows Defender App Control
- Configure and manage Microsoft Defender for Servers
- Configure and manage Windows Defender Credential Guard
- Configure SmartScreen
- Operating system security by using Group Policies

2. Secure a hybrid Active Directory infrastructure

- Configure password policies
- Enable password block lists
- Manage protected users
- Manage account security on an RODC
- Harden domain controllers
- Configure authentication policy silos
- Restrict access to domain controllers
- Configure account security
- Manage AD built-in administrative groups
- Manage AD delegation
- Implement and manage Microsoft Defender for Identity

3. Identify and remediate Windows Server security issues

- Monitor on-premises servers and Azure IaaS VMs
- Security issues on-premises servers and Azure IaaS VMs



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4. Secure Windows Server networking

- Manage Windows Defender Firewall
- Implement domain isolation
- Implement connection security rules

5. Secure Windows Server storage

- Manage Windows BitLocker Drive Encryption (BitLocker)
- Manage and recover encrypted volumes
- Enable storage encryption by using Azure Disk Encryption
- Manage disk encryption keys for IaaS virtual machines

6. Implement a Windows Server failover cluster

- Failover cluster on-premises, hybrid, or cloud-only
- Create a Windows failover cluster
- Stretch cluster across datacenters or Azure regions
- Configure storage for failover clustering
- Modify quorum options
- Configure network adapters for failover clustering
- Configure cluster workload options
- Configure cluster sets
- Configure Scale-Out File servers
- Create an Azure witness
- Configure a floating IP address for the cluster
- Implement load balancing for the failover cluster



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7. Manage failover clustering

- Implement cluster-aware updating
- Recover a failed cluster node
- Upgrade a node to Windows Server 2022
- Failover workloads between nodes
- Install Windows updates on cluster nodes
- Manage failover clusters using Windows Admin Center



8. Implement and manage Storage Spaces Direct

- Create a failover cluster using Storage Spaces Direct
- Upgrade a Storage Spaces Direct node
- Implement networking for Storage Spaces Direct
- Configure Storage Spaces Direct

9. Manage backup and recovery for Windows Server

- Back up & restore files & folders to Azure Rcvry Srvcs Vault
- Install and manage Azure Backup Server
- Back up and recover using Azure Backup Server
- Manage backups in Azure Recovery Services Vault
- Create a backup policy
- Backup for Azure VM using the built-in backup agent
- Recover VM using temporary snapshots
- Recover VMs to new Azure VMs
- Restore a VM

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10. Disaster recovery by using Azure Site Recovery

- Configure Azure Site Recovery networking
- Configure Site Recovery for on-premises VMs
- Configure a recovery plan
- Configure Site Recovery for Azure VMs
- Implement VM replication to secondary datacenter
- Configure Azure Site Recovery policies

11. Protect virtual machines by using Hyper-V replicas

- Configure Hyper-V hosts for replication
- Manage Hyper-V replica servers
- Configure VM replication
- Perform a failover



12. Migrate on-premises storage to on-premises servers

- Transfer data and share
- Cut over to a new server by using (SMS)
- Use Storage Migration Service to migrate to Azure VMs
- Migrate to Azure file shares

13. Migrate on-premises servers to Azure

- Deploy and configure Azure Migrate appliance
- Migrate VM workloads to Azure IaaS
- Migrate physical workloads to Azure IaaS
- Migrate by using Azure Migrate

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14. Workloads from previous ver to Windows Server 2022

- Migrate IIS
- Migrate Hyper-V hosts
- Migrate RDS host servers
- Migrate DHCP
- Migrate print servers



15. Migrate IIS workloads to Azure

- Migrate IIS workloads to Azure Web Apps
- Migrate IIS workloads to containers

16. AD DS infrastructure to Windows Server 2022 AD DS

- Migrate AD DS objects
- Migrate to a new Active Directory forest
- Upgrade an existing forest

17. Monitor Windows Server by using Windows Server tools

- Monitor Windows Server by using Performance Monitor
- Create and configure Data Collector Sets
- Monitor servers and configure alerts
- Analyze Windows Server system data
- Manage event logs
- Deploy Azure Monitor agents
- Collect performance counters to Azure
- Create alerts

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18. Tshoot Windows Server on-premises & hybrid networking

- Troubleshoot hybrid network connectivity
- Troubleshoot on-premises connectivity

19. Troubleshoot Windows Server virtual machines in Azure

- Troubleshoot deployment failures
- Troubleshoot booting failures
- Troubleshoot VM performance issues
- Troubleshoot VM extension issues
- Troubleshoot disk encryption issues
- Troubleshoot storage
- Troubleshoot VM connection issues



20. Troubleshoot Active Directory

- Restore objects from AD recycle bin
- Recover Active Directory database using Directory Services
- Recover SYSVOL
- Troubleshoot Active Directory replication
- Troubleshoot Hybrid authentication issues
- Troubleshoot on-premises Active Directory

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