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Microsoft Certified Windows Server Hybrid Administrator Associate

✓Windows Server Operating System

Module 1: Installing and configuring domain controllers

This module describes the features of AD DS and how to install domain controllers (DCs). It also covers the considerations for deploying DCs.

Lessons

- Overview of AD DS
- Overview of AD DS domain controllers
- Deploying a domain controller

Lab : Deploying and administering AD DS

- Deploying AD DS
- Deploying domain controllers by performing domain controller cloning
- Administering AD DS

After completing this module, students will be able to:

- Describe AD DS and its main components.
- Describe the purpose and roles of domain controllers.
- Describe the considerations for deploying domain controllers.

Module 2: Managing objects in AD DS

This module describes how to use various techniques to manage objects in AD DS. This includes creating and configuring user, group, and computer objects.**Lessons**

- Managing user accounts
- Managing groups in AD DS
- Managing computer objects in AD DS

- Using Windows PowerShell for AD DS administration
- Implementing and managing OUs

Lab : Managing AD DS objects

- Creating and managing groups in AD DS
- Creating and configuring user accounts in AD DS
- Managing computer objects in AD DS

Lab : Administering AD DS

- Delegate administration for OUs
- Creating and modifying AD DS objects with Windows PowerShell

After completing this module, students will be able to:

- Manage user accounts in AD DS.
- Manage groups in AD DS.
- Manage computer objects in AD DS.
- Use Windows PowerShell for AD DS administration.
- Implement and manage OUs.
- Administer AD DS.

Module 3: Planning and implementing an IPv4 network

This module also explains how to use fundamental networking tools and techniques to configure and troubleshoot IPv4-based networks.

Lessons

- Planning IPv4 addressing
- Configuring an IPv4 host
- Managing and troubleshooting IPv4 network connectivity

Lab: Planning an IPv4 network

- Planning the IPv4 address assignments

Lab: Implementing and troubleshooting an IPv4 network

- Verifying IPv4
- Troubleshooting IPv4

After completing this module, students will be able to:

- Plan IPv4 addressing.
- Configure an IPv4 host.
- Manage and troubleshoot IPv4 network connectivity

Module 4: Implementing DHCP

This module explains how to plan and implement DHCP to support the IPv4 infrastructure.

Lessons

- Overview of the DHCP server role
- Deploying DHCP
- Managing and troubleshooting DHCP

Lab: Implementing DHCP

- Planning a DHCP server implementation
- Implementing the DHCP configuration
- Validating the DHCP implementation

After completing this module, students will be able to:

- Explain the DHCP server role.
- Deploy DHCP.
- Manage and troubleshoot DHCP.

Module 5: Implementing DNS

This module explains how to install, configure, and troubleshoot DNS within the organization's network.

Lessons

- Implementing DNS servers
- Configuring zones in DNS
- Configuring name resolution between DNS zones
- Configuring DNS integration with Active Directory Domain Services (AD DS)
- Configuring advanced DNS settings

Lab: Planning and implementing name resolution by using DNS

- Planning DNS name resolution
- Implementing DNS servers and zones

Lab: Integrating DNS with Active Directory

- Integrating DNS with Active Directory

Lab: Configuring advanced DNS settings

- Configuring DNS policies
- Validating the DNS implementation

- Troubleshooting DNS

After completing this module, students will be able to:

- Implement DNS servers.
- Configure zones in DNS.
- Configure name resolution between DNS zones.
- Configure DNS integration with AD DS.
- Configure advanced DNS settings

✓AZ-800: Administering Windows Server Hybrid Core Infrastructure

Module 1: Deploy and manage Active Directory Domain Services (AD DS) in onpremises and cloud environments

- Deploy and manage AD DS domain controllers
- Configure and manage multi-site, multi-domain, and multi-forest environments
- Create and manage AD DS security principals
- Implement and manage hybrid identities
- Manage Windows Server by using domain-based Group Policies

Module 2: Manage Windows Servers and workloads in a hybrid environment

- Manage Windows Servers in a hybrid environment
- Manage Windows Servers and workloads by using Azure services

Module 3: Manage virtual machines and containers

- Manage Hyper-V and guest virtual machines
- Create and manage containers
- Manage Azure Virtual Machines that run Windows Server

Module 4: Implement and manage an on-premises and hybrid networking infrastructure

- Implement on-premises and hybrid name resolution
- Manage IP addressing in on-premises and hybrid scenarios
- Implement on-premises and hybrid network connectivity

Module 5: Manage storage and file services

- Configure and manage Azure File Sync
- Configure and manage Windows Server file shares
- Configure Windows Server storage

Course Prerequisites

In order for participants to take up this Administering Windows Server Hybrid Core Infrastructure course/examination, they must have:

- Experience of working with Windows Server Operating Systems.
- Candidates must have a strong understanding of general networking concepts and technologies with hands-on experience using Windows Server, Windows-based networking, network management tools, DNS, TCP/IP, names resolution process, network protocols, and topologies.

Who can take up Administering Windows Server Hybrid Core Infrastructure Certification Training?

Job roles that can benefit from Administering Windows Server Hybrid Core Infrastructure training include:

- Enterprise Architects
- Azure Administrators
- Identity and Access Administrators
- Network Engineers
- Security Engineers
- Subject Matter Experts
- Support Engineers
- Technology Managers
- Professionals looking to gain a complete understanding of the implementing and managing on-premises and hybrid solutions
- Individuals looking to take up the AZ-800 certification exam

✓AZ-801: Configuring Windows Server Hybrid Advanced Services

Module 1: Secure Windows Server on-premises and hybrid infrastructures

- Secure Windows Server operating system
- Secure a hybrid Active Directory (AD) infrastructure
- Identify and remediate Windows Server security issues by using Azure services
- Secure Windows Server networking
- Secure Windows Server storage

Module 2: Implement and manage Windows Server high availability

- Implement a Windows Server failover cluster
- Manage failover clustering
- Implement and manage Storage Spaces Direct

Module 3: Implement disaster recovery

- Manage backup and recovery for Windows Server
- Implement disaster recovery by using Azure Site Recovery
- Protect virtual machines by using Hyper-V replicas

Module 4: Migrate servers and workloads

- Migrate on-premises storage to on-premises servers or Azure
- Migrate on-premises servers to Azure
- Migrate workloads from previous versions to Windows Server 2022
- Migrate IIS workloads to Azure
- Migrate an AD DS infrastructure to Windows Server 2022 AD DS

Course Prerequisites

- Should have extensive experience working with Windows Server operating systems.

Target Audience:

This course is intended for Azure administrators, enterprise architects, Microsoft 365 administrators, System administrators and network engineers.

Learning Objectives:

After completing this course, you will be able to:

- Secure Windows Server on-premises and hybrid infrastructures
- Implement and manage Windows Server high availability
- Implement disaster recovery
- Migrate servers and workloads
- Monitor and troubleshoot Windows Server environments