

Windows Server and File Services Management

Table of contents

Module 1

Installing, upgrading, and migrating servers and workloads

Contents:

- Lesson 1: Introducing Windows Server 2016
- Lesson 2: Preparing and installing Server Core
- Lesson 3: Preparing for upgrades and migrations
- Lesson 4: Migrating server roles and workloads
- Lesson 5: Windows Server activation models

Lab: Installing and configuring Server Core

Module 2

Installing and configuring domain controllers

Contents:

- Lesson 1: Overview of AD DS
- Lesson 2: Overview of AD DS domain controllers
- Lesson 3: Deploying a domain controller

Lab: Deploying and administering AD DS

Module 3

Managing objects in AD DS

Contents:

- Lesson 1: Managing user accounts
- Lesson 2: Managing groups in AD DS
- Lesson 3: Managing computer objects in AD DS
- Lesson 4: Using Windows PowerShell for AD DS administration
- Lesson 5: Implementing and managing OUs

Lab A: Managing AD DS objects

Lab B: Administering AD DS

Module 4

Configuring local storage

Contents:

- Lesson 1: Managing disks in Windows Server
- Lesson 2: Managing volumes in Windows Server

Lab: Configuring local storage

Module 5

Implementing enterprise storage solutions

Contents:

- Lesson 1: Overview of DAS, NAS, and SANs
- Lesson 2: Comparing Fibre Channel, iSCSI, and Fibre Channel over Ethernet
- Lesson 3: Understanding iSNS, DCB, and MPIO
- Lesson 4: Configuring sharing in Windows Server 2016

Lab: Planning and configuring storage technologies and components

Module 6

Implementing Storage Spaces and Data Deduplication

Contents:

- Lesson 1: Implementing Storage Spaces
- Lesson 2: Managing Storage Spaces
- Lesson 3: Implementing Data Deduplication

Lab A: Implementing Storage Spaces

Lab B: Implementing Data Deduplication

Module 7

Overview of high availability and disaster recovery

Contents:

- Lesson 1: Defining levels of availability
- Lesson 2: Planning high availability and disaster recovery solutions with Hyper-V virtual machines
- Lesson 3: Backing up and restoring by using Windows Server Backup
- Lesson 4: High availability with failover clustering in Windows Server 2016

Lab: Planning and implementing a high availability and disaster recovery solution

Module 8

Implementing failover clustering

Contents:

- Lesson 1: Planning a failover cluster
- Lesson 2: Creating and configuring a new failover cluster
- Lesson 3: Maintaining a failover cluster
- Lesson 4: Troubleshooting a failover cluster
- Lesson 5: Implementing site high availability with stretch clustering

Lab A: Implementing failover clustering

Lab B: Managing a failover cluster

Module 9

Implementing failover clustering with Windows Server 2016 Hyper-V

Contents:

- Lesson 1: Overview of the integration of Hyper-V Server 2016 with failover clustering
- Lesson 2: Implementing Hyper-V VMs on failover clusters
- Lesson 3: Key features for VMs in a clustered environment

Lab: Implementing failover clustering with Windows Server 2016 Hyper-V

Module 10

Implementing Group Policy

Contents:

- Lesson 1: Introducing Group Policy
- Lesson 2: Implementing and administering GPOs
- Lesson 3: Group Policy scope and Group Policy processing
- Lesson 4: Troubleshooting the application of GPOs

Lab A: Implementing a Group Policy infrastructure

Lab B: Troubleshooting Group Policy infrastructure

Module 11

Managing user settings with Group Policy

Contents:

- Lesson 1: Implementing administrative templates
- Lesson 2: Configuring Folder Redirection, software installation, and scripts
- Lesson 3: Configuring Group Policy preferences

Lab: Managing user settings with Group Policy

Module 12

Monitoring, managing, and recovering AD DS

Contents:

- Lesson 1: Monitoring AD DS
- Lesson 2: Managing the Active Directory database
- Lesson 3: Active Directory backup and recovery options for AD DS and other identity and access solutions

Lab: Recovering objects in AD DS