Module 8 – Disaster Recovery and Availability

This module discusses how to protect the server from disaster through backup and recovery, Group Policy strategies, network load balancing, and failover clustering.

Section 8.1: Backup and Restore

Summary

This section discusses using Windows Server Backup to perform backup and recovery. Details include:

- Types of backups that can be performed using Windows Server Backup:
  - Automatic Backup
  - Manual Backup
  - System State Backup
- Methods to perform a recovery using Windows Server Backup:
  - Files and folders
  - Volumes
  - Applications
  - Backup catalog
  - Operating system or full server
  - System state
  - Backup created with Ntbackup
- The role of Volume Shadow Copy Service (VSS)

Students will learn how to:

- Install Windows Server Backup.
- Create a backup schedule.
- Perform a Backup Once operation.

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- 503. Plan for backup and recovery.

Video/Demo	Time
☐ 8.1.1 Windows Server Backup	3:26
☐ 8.1.2 Using Windows Server Backup	7:22
☐ 8.1.3 Using Volume Shadow Copies	3:38
☐ 8.1.6 Recovery	5:16
☐ 8.1.7 Performing a Bare Metal Restore	5:42

Total ***24:24***

Lab/Activity

- ☐ Back Up a Server

☐ **Number of Exam Questions: 7 questions**

Total Time: About 40 minutes

Section 8.2: Active Directory Recovery

Summary

This section provides the following details about recovering Active Directory data:

- Methods to restore lost Active Directory data:
  - Nonauthoritative restore
  - Authoritative restore
  - Active Directory Recycle Bin
  - View snapshots
  - LostAndFound container
- Performing a system state backup
- Methods for performing a domain controller restore:
  - Dcpromo
  - Restore system state
  - Critical volume or full server restore
- Backing up and restoring only Group Policy data using the Group Policy Management console
- Methods to create another GPO with the same settings as an already created GPO:
  - Copy
  - Backup and import
  - Starter GPO
- Migrating domain-specific settings

Students will learn how to:

- Back up and restore GPOs and starter GPOs.

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- 203. Plan and implement group policy strategy.
- 503. Plan for backup and recovery.

Video/Demo	Time
☐  8.2.1 Active Directory Recovery	3:51

☐	8.2.2 Active Directory Recycle Bin	4:57
☐	8.2.5 GPO Backup	1:50
☐	8.2.6 Backing Up GPOs	1:55
Total		***12:33***

☐ **Number of Exam Questions: 6 questions**

☐ **Total Time: About 25 minutes**

Section 8.3: Network Load Balancing

Summary

This section explores using Network Load Balancing to improve performance by distributing the workload between multiple servers. Students will become familiar with:

- How servers work together using Network Load Balancing
- Cluster operating modes:
  - Unicast
  - Multicast
- Port rules
  - Port rule filtering mode
  - Client affinity setting
  - Host priority number
- Managing and configuring NLB
- Managing port rules

Students will learn how to:

- Create an NLB cluster.
- Define port rules to customize how cluster hosts respond.

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- 502. Plan high availability.

Video/Demo	Time
☐ 8.3.1 Network Load Balancing (NLB)	7:36
☐ 8.3.3 Configuring NLB	2:40
Total	*10:16*

Lab/Activity

- ☐ Configure an NLB Cluster 1

- ☐ Configure an NLB Cluster 2

☐ **Number of Exam Questions: 5 questions**

Total Time: About 30 minutes

Section 8.4: Failover Clustering

Summary

This section discusses the following details about Failover Clustering:

- The role of Failover Clustering
- Ways that services and applications running on cluster members are configured:
  - Single-instance application
  - Multiple-instance application
- Quorum modes:
  - Node Majority
  - Node and Disk Majority
  - Node and File Share Majority
  - No Majority: Disk Only
- Cluster Shared Volumes
- Managing Failover Clustering

Students will learn how to:

- Create a failover cluster.

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- 502. Plan high availability.

Video/Demo	Time
☐  8.4.1 Failover Clustering	13:19
☐  8.4.2 Configuring Failover Clustering	3:52
Total	***17:11***

☐ **Number of Exam Questions: 6 questions**

Total Time: About 30 minutes