

## Module 1: Configuring and Troubleshooting Domain Name System

This module explains how to configure and troubleshoot DNS, including DNS replication and caching.

### Lessons

- Configuring the DNS Server Role
- Configuring DNS Zones
- Configuring DNS Zone Transfers
- Managing and Troubleshooting DNS
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### Lab : Configuring and Troubleshooting DNS

- Configuring DNS Resource Records
- Configuring DNS Conditional Forwarding
- Installing and Configuring DNS Zones
- Troubleshooting DNS

After completing this module, students will be able to:

- Configure the DNS Server Role
- Explain how to configure DNS Zones and Zone transfers
- Manage and Troubleshoot DNS

## Module 2: Maintaining Active Directory Domain Services

This module explains how to implement virtualized domain controllers and read-only domain controller (RODCs). It also explains how to perform common AD DS administrative tasks and manage the AD DS Database.

### Lessons

- Overview of AD DS
- Implementing Virtualized Domain Controllers
- Implementing Read-Only Domain Controllers
- Administering AD DS
- Managing the AD DS Database

### Lab : Maintaining AD DS

- Installing and Configuring a RODC
- Create and administer AD DS Snapshots

- Configuring the Active Directory Recycle Bin
- Deploy a domain controller by using domain controller cloning

After completing this module, students will be able to:

- Describe how to implement virtualized domain controllers
- Describe how to implement read-only domain controller (RODCs)
- Perform common AD DS administrative tasks
- Manage the AD DS Database

### **Module 3: Managing User and Service Accounts**

This module explains how to create, configure and automate the creation of user accounts. It also explains how to configure account-related properties of user objects. It further explains how to create and administer Managed Service Accounts.

#### **Lessons**

- Configuring Password Policy and User Account
- Configuring Managed Service Accounts

#### **Lab : Managing User and Service Accounts**

- Configuring Password Policy and Account Lockout Settings
- Creating and Associating a Group Managed Service Account

After completing this module, students will be able to:

- Describe how to configure Password Policy and Account Lockout settings
- Create and associate a Group Managed Service Account

### **Module 4: Implementing a Group Policy Infrastructure**

This module explains how to implement a GPO infrastructure. This also teaches how to perform common GPO management tasks, and manage GPOs by using Windows PowerShell. It also focuses on troubleshooting the application of GPOs.

#### **Lessons**

- Introducing Group Policy
- Implementing and Administering GPOs
- Group Policy Scope and Group Policy Processing
- Troubleshooting the Application of GPOs

#### **Lab : Implementing a Group Policy Infrastructure**

- Creating and Configuring GPOs

- Managing GPO Scope
- Verify GPO Application
- Managing GPOs

After completing this module, students will be able to:

- Explain what Group Policy is
- Implement and administer Group Policy Objects (GPOs)
- Manage Group Policy scope
- Process Group Policy
- Troubleshoot the application of GPOs

## **Module 5: Managing User Desktops with Group Policy**

This module explains how you can use Group Policy Objects (GPOs) to implement desktop environments across your organization by using Administrative Templates, Folder Redirection, Group Policy preferences, and where applicable, use software deployment to install and update application programs. It is important to know how to use these various GPO features so that you can configure your users' computer settings properly.

### **Lessons**

- Implementing Administrative Templates
- Configuring Folder Redirection and Scripts
- Configuring Group Policy Preferences
- Managing Software with Group Policy

### **Lab : Managing User Desktops with Group Policy**

- Implement Settings Using Group Policy Preferences
- Managing Office 2013 by using Administrative Templates
- Deploying Software by using Group Policy
- Configuring Folder Redirection

After completing this module, students will be able to:

- Describe and implement Administrative Templates
- Configure folder redirection and scripts by using GPOs
- Configure GPO preferences
- Deploy software by using GPOs

## **Module 6: Configuring and Troubleshooting Remote Access**

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In this module, you will learn how to implement and manage remote access in Windows Server 2012. You will also learn how to implement DirectAccess by using the Getting Started wizard, implement and manage an advanced DirectAccess infrastructure, and implement VPN.

## Lessons

- Remote Access Overview
- Implementing DirectAccess by Using the Getting Started Wizard
- Implementing and Managing an Advanced DirectAccess Infrastructure
- Implementing VPN
- Implementing Web Application Proxy

### Lab : Implementing DirectAccess by Using the Getting Started Wizard

- Verifying Readiness for a DirectAccess Deployment
- Running the Getting Started Wizard
- Validating the DirectAccess Deployment

### Lab : Deploying an Advanced DirectAccess Solution

- Preparing the Environment for DirectAccess
- Implementing the Advanced DirectAccess Infrastructure
- Validating the DirectAccess Deployment

### Lab : Implementing VPN

- Implementing VPN
- Validating the VPN Deployment

### Lab : Implementing Web Application Proxy

- Implementing Web Application Proxy
- Validating the Web Application Proxy Deployment

After completing this module, students will be able to:

- Install and manage the Remote Access role in Windows Server 2012
- Implement DirectAccess by using the Getting Started Wizard
- Implement and manage an advanced DirectAccess Infrastructure
- Implement VPN access
- Implement Web Application Proxy

## Module 7: Installing, Configuring, and Troubleshooting the Network Policy Server Role

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This module explains how to install and configure NPS, RADIUS Clients and servers. It also describes NPS authentication methods. It describe NPS authentication methods and how to monitor and troubleshoot NPS.

## Lessons

- Installing and Configuring a Network Policy Server
- Configuring RADIUS Clients and Servers
- NPS Authentication Methods
- Monitoring and Troubleshooting a Network Policy Server

## Lab : Installing and Configuring a Network Policy Server

- Installing and Configuring NPS to Support RADIUS
- Configuring and Testing a RADIUS Client

After completing this module, students will be able to:

- Install and configure NPS
- Configure both RADIUS clients and servers
- Describe NPS authentication methods
- Monitor and troubleshoot NPS

## Module 8: Implementing Network Access Protection

This module explains how to configure, monitor, and troubleshoot NAP. It also explains how NAP can help to protect your network and the various NAP enforcement processes.

## Lessons

- Network Access Protection Overview
- Configuring NAP
- Configuring IPSec Enforcement for NAP
- Monitoring and Troubleshooting NAP

## Lab : Implementing NAP with VPN Enforcement

- Configuring NAP with VPN Enforcement
- Validating the Deployment

## Lab : Implementing IPSec Enforcement for NAP

- Configuring IPSec Enforcement
- Validating the Deployment

After completing this module, students will be able to:

- Describe how NAP can help to protect your network
- Describe the various NAP enforcement processes
- Configure NAP
- Monitor and troubleshoot NAP

## **Module 9: Optimizing File Services**

This module describes FSRM, configure quotas, file screening, and storage reports and implement classification management and file management tasks. It describes the components of the DFS. It also explains how to configure DFS namespaces and DFS replication.

### **Lessons**

- Overview of FSRM
- Using FSRM to Manage Quotas, File Screens, and Storage Reports
- Implementing Classification Management and File Management Tasks
- DFS Overview
- Configuring DFS Namespaces
- Configuring and Troubleshooting DFS-R

### **Lab : Configuring Quotas and File Screening Using FSRM**

- Configuring FSRM Quotas
- Configuring File Screening

### **Lab : Implementing DFS**

- Installing the DFS role service
- Configuring a DFS Namespace
- Configuring DFS-R

After completing this module, students will be able to:

- Describe FSRM
- Configure quotas, file screening, and storage reports
- Implement classification management and file management tasks
- Describe the components of the DFS
- Describe and configure DFS namespaces
- Explain how to configure DFS replication

## **Module 10: Configuring Encryption and Advanced Auditing**

This module explains how to encrypt files using EFS and configure advanced auditing features.

## Lessons

- Encrypting Drives by Using BitLocker
- Encrypting Files by Using Encrypting File System
- Configuring Advanced Auditing

## Lab : Configuring Encryption and Advanced Auditing

- Securing Data Drives by Using BitLocker
- Encrypting and Recovering Files
- Configuring Advanced Audit Policy Configuration

After completing this module, students will be able to:

- Explain how to encrypt files using EFS
- Configure advanced auditing features

## Module 11: Deploying and Maintaining Server Images

This module explains how to create and manage server images by using Windows Deployment Services

## Lessons

- Overview of Windows Deployment Services
- Managing Windows Deployment Images
- Implementing Deployment with Windows Deployment Services
- Administering Windows Deployment Services

## Lab : Using Windows Deployment Services to Deploy Windows Server 2012

- Installing and Configuring Windows Deployment Services
- Creating Operating System Images with Windows Deployment Services
- Configuring Custom Computer Naming
- Deploying Images with Windows Deployment Services

After completing this module, students will be able to:

- Install and configure Windows Deployment Services
- Manage Windows Deployment Images
- Configure custom computer naming
- Administer Windows Deployment Services

## Module 12: Implementing Update Management

This module explains how to use Windows Server Update Services (WSUS) to deploy updates to Windows servers and clients.

## Lessons

- Overview of WSUS
- Deploying Updates with WSUS

## Lab : Implementing Update Management

- Implementing the WSUS Server Role
- Configuring Update Settings
- Approving and Deploying an Update by using WSUS

After completing this module, students will be able to:

- Describe WSUS
- Deploy update by using WSUS

## Module 13: Monitoring Windows Server 2012

This module explains the monitoring tools available in Windows Server 2012. It also explains how to use Performance Monitor and monitor events.

## Lessons

- Monitoring Tools
- Using Performance Monitor
- Monitoring Event Logs

## Lab : Monitoring Windows Server 2012

- Establishing a Performance Baseline
- Identifying the Source of a Performance Problem
- Viewing and Configuring Centralized Event Logs

After completing this module, students will be able to:

- Describe the monitoring tools available in Windows Server 2012
- Describe how to use Performance Monitor
- Describe how to monitor events