



Course Outline 6430B

Module 1: Planning Windows Server 2008 Deployment

This module explains how to plan the deployment of Windows Server 2008 servers.

Lessons

- Overview of Change Management
- Planning a Single-Server Installation
- Post Installation
- Automating Windows Server Deployment

Lab : Planning Windows Server 2008 Deployment

Exercise 1: Creating a Planning Flowchart for a Windows Server 2008 Deployment

Exercise 2: Planning a Windows Server 2008 Deployment

After completing this module, students will be able to:

- Describe how change management affects a deployment project
- Plan the deployment of a single computer running Windows Server 2008
- Describe how to perform a single-server installation
- Determine how to automatically deploy Windows Server 2008

Module 2: Planning Network Infrastructure for Windows Server 2008

This module explains how to plan the network infrastructure for Windows Server 2008 servers.

Lessons

- Planning IPv4 Addressing
- Planning for Name Resolution Services
- Determining the Need for WINS
- Planning a Perimeter Network
- Planning an IPv4 to IPv6 Transition Strategy

Lab : Planning Network Infrastructure for Windows Server 2008

Exercise 1: Determining an Appropriate Network Addressing Scheme

Exercise 2: Planning the Placement of Network Servers

Exercise 3: Implementing the Planned Network Services

After completing this module, students will be able to:

- Plan an IPv4 addressing strategy.
- Plan the deployment and configuration of DNS servers.
- Determine how to handle NetBIOS names within your organization.
- Place appropriate servers in your perimeter network.
- Plan an IPv4 to IPv6 transition strategy

Module 3: Planning for Active Directory

This module explains how to plan the Active Directory environment.

Lessons

- Selecting a Domain and Forest Topology
- Selecting a Domain and Forest Functional Level
- Planning Identity and Access Services in Active Directory
- Implementing Active Directory in the Physical Network

Lab : Implementing Active Directory in the Physical Network

Exercise 1: Selecting a Forest Topology

Exercise 2: Planning Active Directory for a Branch Network

Exercise 3: Deploying a Branch Domain Controller

After completing this module, students will be able to:

- Select an appropriate Active Directory topology.
- Configure the domain and forest functional level.
- Describe Active Directory identity and access services.
- Configure Active Directory to support your physical network.

Module 4: Planning for Group Policy

This module explains how to plan for Group Policy in a Windows Server 2008 network.

Lessons

- Planning Group Policy Application
- Planning Group Policy Processing
- Planning the Management of Group Policy Objects
- Planning the Management of Client Computers

Lab : Planning for Group Policy

Exercise 1: Creating a Group Policy Plan

Exercise 2: Implementing Group Policy

After completing this module, students will be able to:

- Plan group policy application.
- Plan group policy processing.
- Plan the management of group policy objects.
- Plan the management of client computers.

Module 5: Planning Application Servers

This module explains how to plan for application servers in a Windows Server 2008 network.

Lessons

- Overview of Application Servers
- Supporting Web-Based Applications



- Supporting SQL Server Databases
- Deploying Client Applications
- Planning Terminal Services

Lab : Planning Application Servers

Exercise 1: Creating a Plan for Application Servers
Exercise 2: Implementing Windows SharePoint Services
Exercise 3: Implementing Terminal Services

After completing this module, students will be able to:

- Describe application servers.
- Plan support for Web-based applications.
- Plan support for SQL Server databases.
- Plan the deployment of client applications.
- Plan the implementation of Terminal Services.

Module 6: Planning File and Print Services

This module explains how to plan for File and Print services in your Windows Server 2008 environment.

Lessons

- Planning and Deploying the File Services Role
- Managing Storage
- Planning and Implementing the Distributed File System
- Planning and Implementing Shared Printing

Lab : Planning File and Print Services

Exercise 1: Planning File and Print Services for a Branch Office
Exercise 2: Implementing File and Print Services in a Branch Office

After completing this module, students will be able to:

- Plan and deploy the Windows Server 2008 File Services role
- Manage storage effectively
- Implement an appropriate Distributed File System infrastructure
- Implement shared printing

Module 7: Planning Server and Network Security

This module explains how to plan for server and network security in a Windows Server 2008 network.

Lessons

- Overview of Defense-in-Depth
- Planning for Windows Firewall with Advanced Security
- Planning Protection Against Viruses and Malware
- Managing Remote Access
- Planning for Network Access Protection (NAP)

Lab : Planning Server and Network Security



Exercise 1: Creating a Plan for Server and Network Security

Exercise 2: Implementing Windows Firewall Rules

After completing this module, students will be able to:

- Describe Defense-in-Depth
- Plan for Windows Firewall with Advanced Security
- Plan protection against viruses and malware
- Manage remote access
- Plan for NAP

Module 8: Planning Server Administration

This module explains how to plan for effective administration of a Windows Server 2008 network.

Lessons

- Selecting the Appropriate Administration Tool
- Planning Server Core Administration
- Delegating Administration

Lab : Planning Server Administration

Exercise 1: Planning for Branch Office Administration

Exercise 2: Delegating Administration to Branch Office Personnel

After completing this module, students will be able to:

- Select an appropriate administrative tool for a given situation.
- Determine where to deploy Server Core servers.
- Delegate administrative tasks.

Module 9: Planning and Implementing Monitoring and Maintenance

This module explains how to plan for and implement monitoring and maintenance in a Windows Server 2008 network.

Lessons

- Planning Monitoring Tasks
- Calculating a Server Baseline
- Tools for Monitoring Server Performance
- Planning Software Updates

Lab : Planning and Implementing Monitoring and Maintenance

Exercise 1: Evaluating Performance Metrics

Exercise 2: Monitoring Performance Metrics

Exercise 3: Configuring Data Collector Sets

Exercise 4: Evaluating Trends

After completing this module, students will be able to:

- Plan monitoring tasks.
- Calculate a server performance baseline.



- Select the appropriate monitoring and maintenance tool.
- Plan software updates.

Module 10: Planning High Availability and Disaster Recovery

This module explains how to plan for high availability and disaster recovery in a Windows Server 2008 environment.

Lessons

- Choosing a High-Availability Solution
- Planning a Backup and Restore Strategy

Lab : Planning High Availability and Disaster Recovery

Exercise 1: Planning for Branch Office High Availability and Data Recovery

Exercise 2: Implementing the High Availability and Disaster Recovery Plan

After completing this module, students will be able to:

- Select a high-availability solution.
- Select an appropriate backup and restore strategy.

Module 11: Planning Virtualization

This module explains how to plan virtualization to increase the efficiency and availability of applications and services.

Lessons

- Overview of Server Virtualization
- Business Scenarios for Server Virtualization
- Overview of System Center Virtual Machine Manager
- Planning Host Resources

Lab : Planning Virtualization

Exercise 1: Creating a Virtualization Plan

Exercise 2: Implementing Virtualization (Optional)

After completing this module, students will be able to:

- Describe virtualization and the technologies that can be used to implement virtualization.
- Describe the business scenarios for virtualization.
- Describe how System Center Virtual Machine Manager can be used to manage a virtual environment.

Plan host resources.

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