

Planning for Windows Server 2008 Servers (MS6430)

Duration: 3 Days

Description

This course is intended for IT pros who are interested in the knowledge and skills necessary to plan a Windows Server 2008 operating system infrastructure. It is aimed at server administrators and is not a “how-to” course; therefore, it has a significant number of planning exercises with less focus on hands-on exercises than some courses.

The course content and exercises direct you toward making decisions and providing guidance to others and reflects the decision-making tasks that a server administrator undertakes.

Students learn to:

- Plan for both Windows Server 2008 installation and upgrade from a previous version of Windows Server to Windows Server 2008.
- Plan and implement network connectivity in Windows Server 2008 by using IPv4-related technologies and plan a migration strategy to IPv6.
- Plan the deployment of Active Directory–related services in Windows Server 2008.
- Apply the design considerations for implementing group policy.
- Plan the configuration of different applications services in Windows Server 2008.
- Create a plan for file and print services to meet an organization’s printing, file storage, and access needs.
- Create a plan to secure the Windows Server 2008 environment.
- Create local and remote administration strategies for administering a Windows Server 2008 environment.
- Create a monitoring plan for the Windows Server 2008 environment.
- Create a plan that will help mitigate the effects of various disaster scenarios on the IT infrastructure.
- Create a plan for using virtualization in a Windows Server 2008 environment.

Audience

This course is intended for server administrators who are moving from a technical-specialist role to a decision-making role and want to acquire the necessary knowledge to be able to plan for Windows Server 2008 servers.

Prerequisites

Before attending this course, students must have:

- Skills equivalent to course 6418 - Installation and Configuration of Windows Server 2008, Windows Deployment Services, and Active Directory directory service upgrades.
- Skills equivalent to course 6420 - TCP/IP configuration, server administration, network and data security
- Skills equivalent to course 6421 -Domain Name System (DNS) configuration, Windows

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- Internet Name Service (WINS) configuration, IPv6 transition, remote access, network policies, Network Access Protection (NAP), Distributed File System (DFS)
- Skills equivalent to course 6424 - Configure Active Directory Domain Services (AD DS), configure
- Active Directory Lightweight Directory Services (AD LDS), configure Active Directory Certificate Services (AD CS), configure Active Directory Federation Services (AD FS), create users and groups
- Skills equivalent to course 6425 - Configure AD DS security, trusts, sites, replication, Group Policy
- Up to one year experience implementing server plans

Topics

MODULE 1: PLANNING WINDOWS SERVER 2008 DEPLOYMENT

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

- Overview of Change Management
- Planning a Single-Server Installation
- Performing a Single-Server 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

MODULE 2: PLANNING NETWORK INFRASTRUCTURE FOR WINDOWS SERVER 2008

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

- 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
- 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.

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

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- 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

MODULE 4: PLANNING FOR GROUP POLICY

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

- 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

MODULE 5: PLANNING APPLICATION SERVERS

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

- 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

MODULE 6: PLANNING FILE AND PRINT SERVICES

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

- 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

MODULE 7: PLANNING SERVER AND NETWORK SECURITY

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

- 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

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MODULE 8: PLANNING SERVER ADMINISTRATION

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

- 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

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.

- 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

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.

- 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

MODULE 11: PLANNING VIRTUALIZATION

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

- 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)