



Course M6430-ILT

Planning for Windows Server 2008 Servers

Three days, Instructor-Led

INTRODUCTION

This 3-day course is intended for IT pros who are interested in the knowledge and skills necessary to plan a Windows Server 2008 operating system infrastructure. This course 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. This course reflects the decision-making tasks that a server administrator undertakes.

AUDIENCE PROFILE

This course is intended for a server administrator who:

- Is moving from a technical-specialist role to a decision-making role.
- Wants 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 6418A (deployment)—Installation and configuration of Windows Server 2008, Windows Deployment Services, Active Directory directory service upgrades
- Skills equivalent to course 6420A (networking fundamentals)— TCP/IP configuration, server administration, network and data security
- Skills equivalent to course 6421A (core network infrastructure training)— Domain Name System (DNS) configuration, Windows Internet Name Service (WINS) configuration, IPv6 transition, remote access, network policies, Network Access Protection (NAP), Distributed File System (DFS)
- Skills equivalent to course 6424A (Active Directory fundamentals)— 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 6425A (core Active Directory training)— Configure AD DS security, trusts, sites, replication, Group Policy
- Up to one year experience implementing server plans

COURSE OUTLINE

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
- 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

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- 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.

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

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

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

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- 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.

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

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

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)

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Lab: Planning Server and Network Security

- Exercise 1: Creating a Plan for Server and Network Security
- Exercise 2: Implementing Windows Firewall Rules

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

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

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



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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)

Additional Reading

To help you prepare for this class, review the following resources:

Read the additional readings and references included on the Course Companion CD.

Practice using the Microsoft product(s) and tools associated with Course 6430B, Planning for Windows Server 2008 Servers.

Practice setting up the classroom by following the instructions in the Microsoft Virtual Server Classroom Setup Guide or the Microsoft Virtual Machine Build Guide.

Review the Windows Server 2008 Web site at <http://go.microsoft.com/fwlink/?LinkId=123286> for updated information.

Review the Course 6430B, Planning for Windows Server 2008 Servers error log, which is available in the Microsoft Download Center.