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## **Course 6430A:**

### **Planning and Administering Windows Server 2008 Servers**

Length:	5 Day(s)
Published:	August 29, 2008
Language(s):	English
Audience(s):	IT Professionals
Level:	300
Technology:	Windows Server 2008
Type:	Course
Delivery Method:	Instructor-led (classroom)

#### **Course OutlineModule 1: Planning for Windows Server 2008 Deployment**

This module explains how to deploy Windows Server 2008

##### **Lessons**

- › Overview of Windows Server 2008 Deployment
- › Identifying Windows Server 2008 Compatibility Issues
- › Developing a Windows Server 2008 Deployment Plan

##### **Lab : Planning for a Windows Server 2008 Server Deployment**

- › Reviewing the Existing Server Environment
- › Reviewing Business Requirements and SLAs
- › Creating a Deployment Plan
- › Discussion – Reviewing the Deployment Plans

After completing this module, students will be able to:

- › Explain the advantages of deploying Windows Server 2008.



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- › Identify Windows Server 2008 compatibility issues.
- › Develop a Windows Server 2008 deployment plan.

### **Module 2: Managing Server Migration**

This module explains how to commission and decommission Windows Server 2008

#### **Lessons**

- › Creating a Windows Server 2008 Deployment Plan
- › Planning the Server Decommissioning Process
- › Commissioning a Windows Server 2008 File Server

#### **Lab : Migrating a File Server to Windows Server 2008**

- › Reviewing the Existing Server Environment
- › Planning for the Windows Server 2008 File Server
- › Deploying a Windows Server 2008 File Server
- › Verifying the Windows Server 2008 File Server Deployment

After completing this module, students will be able to:

- › Create a deployment plan for Windows Server 2008.
- › Identify server decommissioning steps.
- › List Windows Server 2008 deployment and migration tools.

### **Module 3: Planning Windows Server 2008 Server Roles**

This module explains how to plan the installation of server roles in Windows Server 2008

#### **Lessons**

- › Planning for Windows Server 2008 Hardware
- › Planning for Windows Server 2008 Server Roles
- › Planning for Windows Server 2008 File Servers
- › Planning for Windows Server 2008 Core

#### **Lab : Planning Windows Server 2008 Servers**



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- › Planning a Windows Server 2008 Server Configuration
- › Planning a Windows Server 2008 File Server
- › Implementing Windows Server 2008 File Servers

After completing this module, students will be able to:

- › Identify hardware configuration options for Windows Server 2008.
- › Identify performance implications when combining server roles.
- › List guidance for installing file servers.
- › Plan for Windows Server 2008 Server Core.

#### **Module 4: Creating a Configuration Change Plan for Windows Server 2008**

This module explains how to create a configuration change plan in Windows Server 2008

##### **Lessons**

- › Developing a change control process
- › Planning configuration changes
- › Evaluating configuration changes

##### **Lab : Creating a Configuration Change Plan**

- › Plan a Windows Server 2008 server configuration
- › Discussion – Sharing best practice

After completing this module, students will be able to:

- › Design a change control process for implementing configuration changes.
- › Plan for configuration changes.
- › Evaluate the success of configuration changes.

#### **Module 5: Managing Windows Server 2008 Security**

This module explains how to plan and implement security in Windows Server 2008

##### **Lessons**



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- › Planning a defense-in-depth strategy
- › Implementing host level security for Windows Server 2008
- › Implementing server security by using Group Policies
- › Implementing network security for Windows Server 2008

#### **Lab : Managing Windows Server 2008 Security**

- › Planning a Windows Server 2008 security configuration
- › Implementing file server security

After completing this module, students will be able to:

- › Plan a defense-in-depth strategy for Windows Server 2008 security.
- › Implement host-level security for Windows Server 2008.
- › Implement server security by using Group Policy.
- › Implement network security for Windows Server 2008 servers.

#### **Module 6: Planning for the Application Server Role**

This module explains how to manage versioning and related frameworks in Windows Server 2008

##### **Lessons**

- › Determining application server role requirements
- › Overview of the application server role components
- › Supporting the .NET framework

#### **Lab : Planning for the Application Server Role**

- › Identifying the server roles required to support a LOB application
- › Identifying .NET framework requirements
- › Planning security requirements for the application

After completing this module, students will be able to:

- › Determine the requirement for application servers.



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- › Identify application server role components.
- › Plan for supporting the Microsoft .NET Framework.

### **Module 7: Planning for Windows Server 2008 High Availability**

This module explains how to plan for high availability in Windows Server 2008

#### **Lessons**

- › Planning for Network Load Balancing
- › Overview of failover clustering support in Windows Server 2008
- › Creating clusters in Windows Server 2008

#### **Lab : Planning for Failover Clusters in Windows Server 2008**

- › Planning hardware requirements for Windows Server 2008 failover clusters
- › Planning for Network Load Balancing
- › Planning for a high availability LOB application

After completing this module, students will be able to:

- › Develop a plan for Network Load Balancing (NLB).
- › Describe the improved failover clustering support in Windows Server 2008.
- › Plan for failover clustering in Windows Server 2008.

### **Module 8: Maintaining Windows Server 2008**

This module explains how to plan a server update maintenance schedule in Windows Server 2008

#### **Lessons**

- › Overview of Windows Server 2008 management tasks
- › Planning for security update management
- › Automating Windows Server 2008 maintenance

#### **Lab : Developing a Maintenance Plan for Windows Server 2008**

- › Evaluating log files and reports
- › Planning the maintenance schedule



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- › Automating maintenance tasks
- › Reviewing the maintenance plan

After completing this module, students will be able to:

- › Create a server management task schedule for Windows Server 2008.
- › Plan for security update management plan by using Windows Server Update Services (WSUS).
- › List automated maintenance tools for Windows Server 2008.

### **Module 9: Maintaining a Distributed File System on Windows Server 2008**

This module explains how to maintain a Distributed File System (DFS) on Windows Server 2008

#### **Lessons**

- › Planning components required for DFS
- › Planning for fault tolerance in DFS
- › Tools for managing DFS

#### **Lab : Planning for DFS**

- › Evaluating the existing server environment
- › Deployment considerations for DFS
- › Designing a fault tolerant DFS solution

After completing this module, students will be able to:

- › Identify services required for Distributed File System (DFS).
- › Explain DFS fault tolerance.
- › Identify DFS management tools.

### **Module 10: Planning Windows Server 2008 Backup**

This module explains how to define backup requirements and policies for administering Windows Server 2008

#### **Lessons**



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- › Plan Backups by Using the Windows Server 2008 Backup Feature
- › Plan a backup policy for Windows Server 2008

#### **Lab : Managing Windows Server 2008 Backup**

- › Evaluating the existing backup plan
- › Updating the backup policy
- › Reviewing backup policy and plans
- › Backing up a server

After completing this module, students will be able to:

- › Create a backup and recovery plan by using Windows Server Backup.
- › Develop a backup policy for using Windows Server Backup.

#### **Module 11: Managing a Windows Server 2008 Restore**

This module explains how to plan and implement a Windows Server 2008 restore

##### **Lessons**

- › Planning a server restore policy
- › Planning an EFS restore policy
- › Verifying restored data

#### **Lab : Planning Windows Server 2008 Restore**

- › Evaluating the backup data
- › Planning a restore including System State Data
- › Investigating a failed restore

After completing this module, students will be able to:

- › Create a server restore plan.
- › Create a plan for restoring Encrypting File System (EFS) files.
- › Verify the restore procedure.



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### **Module 12: Monitoring Microsoft Windows Server 2008 Servers**

This module explains how to plan for monitoring Windows Server 2008

#### **Lessons**

- › Planning monitoring tasks
- › Calculating a server baseline
- › Measuring performance objects
- › Selecting appropriate monitoring tools
- › Planning notification methods

#### **Lab : Identifying Windows Server 2008 Monitoring Requirements**

- › Evaluating performance metrics
- › Monitoring performance metrics
- › Configuring Data Collector sets
- › Evaluating trends
- › Remote monitoring extension

After completing this module, students will be able to:

- › Plan monitoring tasks.
- › Determine an appropriate server baseline.
- › Determine objects and counters to monitor based on server role.
- › Select the appropriate monitoring tools.
- › Identify appropriate notification methods.

### **Module 13: Troubleshooting Microsoft Windows Server 2008 Hardware**

This module explains how to troubleshoot hardware issues in Windows Server 2008

#### **Lessons**

- › Identifying hardware support issues
- › Dealing with physical failures
- › Dealing with device driver failures

#### **Lab : Troubleshooting Hardware Issues**



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- › Evaluating disk issues
- › Planning for server availability
- › Planning for future capacity requirements
- › Discussion – Server Hardware Issues

After completing this module, students will be able to:

- › Identify hardware issues.
- › Explain physical component failure.
- › Manage device driver failure.

#### **Module 14: Troubleshooting Microsoft Windows Server 2008 Software**

This module explains how to troubleshoot software issues in Windows Server 2008

##### **Lessons**

- › Planning for business continuity
- › Reviewing log files
- › Reviewing core OS components
- › Evaluating security issues

##### **Lab : Troubleshooting Software Issues**

- › Resolving driver update issues
- › Rolling back a patch
- › Fixing version incompatibilities
- › Reconfiguring software settings

After completing this module, students will be able to:

- › Evaluate the effect of software problems.
- › Identify troubleshooting log files.
- › Identify core operating system components.
- › Evaluate software security issues.

#### **Module 15: Troubleshooting Microsoft Windows Server 2008 Networks**



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This module explains how to troubleshoot network issues in Windows Server 2008

#### **Lessons**

- › Analyzing the scale of network issues
- › Correcting IP connectivity issues
- › Resolving names in Windows Server 2008

#### **Lab : Troubleshooting Network Problems**

- › Resolving high network usage issues
- › Resolving server connectivity problems
- › Resolving name resolution problems
- › Resolving slow server response times

After completing this module, students will be able to:

- › Identify common types of network problems.
- › Resolve IP connectivity issues.
- › Resolve name resolution issues.

Before attending this course, students should have up to 1 year experience implementing server plans although have probably not yet had full responsibility for planning.

This course requires that students meet the following prerequisites:

- › A strong familiarity with Windows deployment technologies and implementation.
- › A strong familiarity with Windows networking technologies and implementation.
- › A strong familiarity with Active Directory technologies and implementation.

#### **Recommended Courses**

- › 6418 - Deploying Windows Server 2008
- › 6420 - Fundamentals of Windows Server 2008 Network and Applications Infrastructure
- › 6421 - Configuring and Troubleshooting a Windows Server 2008 Network Infrastructure
- › 6424 - Fundamentals of Windows Server 2008 Active Directory



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- › 6425 - Configuring Windows Server 2008 Active Directory Domain Services