

Course Outline: 6430 _ Managing and Maintaining Windows Server 2008 Servers

Learning Method: Instructor-led Classroom Learning

Duration: 5.00 Day(s)/ 40 hrs

Overview:

This five-day instructor-led course provides students with the knowledge and skills to implement, monitor, and maintain Windows Server 2008 servers.

Who Should Attend: This course is intended for individuals who are employed as a PC Technician, Systems Administrator, Systems Engineer and IT Manager.

At Course Completion:

- Plan a Windows Server 2008 Deployment.
- Plan and implement server commissioning and decommissioning for Windows Server 2008
- Plan the installation of server roles for Windows Server 2008
- Create a configuration change plan for Windows Server 2008.
- Plan and implement Windows Server 2008 security
- Manage application versioning in Windows Server 2008.
- Plan for a high-availability Windows Server 2008 deployment.
- Plan a server update maintenance schedule for Windows Server 2008.
- Maintain Distributed File System (DFS) in Windows Server 2008
- Define server backup requirements and policies for Windows Server 2008 backup
- Plan and implement a Windows Server 2008 restore.
- Plan Windows Server 2008 monitoring.
- Troubleshoot hardware issues
- Troubleshoot software issues
- Troubleshoot network issues.

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Outline:

Module 1: Planning for Windows Server 2008 Deployment

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

Module 2: Managing Server Migration

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

Module 3: Planning Windows Server 2008 Server Roles

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

- Planning a Windows Server 2008 Server Configuration

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

Module 4: Creating a Configuration Change Plan for 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

Module 5: Managing Windows Server 2008 Security Lessons:

- 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

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

Module 7: Planning for Windows Server 2008 High Availability 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

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

Module 8: Module 8: Maintaining 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
- Automating maintenance tasks
- Reviewing the maintenance plan

Module 9: Maintaining a Distributed File System 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

Module 10: Planning Windows Server 2008 Backup

Lessons

- 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 plan
- Backing up a server

Module 11: Managing 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

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- Planning a restore including System State Data
- Investigating a failed restore

Module 12: Monitoring Microsoft Windows Server 2008 Servers

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

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

Lessons

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

Lab: Troubleshooting Hardware Issues

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

Module 14: Troubleshooting Microsoft Windows Server 2008 Software

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

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

Lessons

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

Lab 15: Troubleshooting Network Problems

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

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