

Configuring, Managing and Maintaining Windows Server 2008 Servers

MS6419
5 day

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Prerequisites

- This course is intended for Windows Server administrators who operate Windows Servers on a daily basis and want to learn the skills for configuring, managing, and maintaining the core technical areas of Windows Server 2008. Windows XP

Course Summary and Lessons

This five-day instructor-led course combines five days worth of instructor-led training content from the Network Infrastructure Technology Specialist, Active Directory Technology Specialist, and IT Professional Server Administrator courses of Windows Server 2008 to provide students with the knowledge and skills that are required to manage accounts and resources, maintain server resources, monitor server performance, and safeguard data in a Microsoft Windows Server 2008 environment. This course covers the core skills required by anyone working with Windows Server 2008 Servers.

At Course Completion

After completing this course, students will be able to:

- Describe the different administrative tools and tasks in Windows Server 2008.
- Configure AD DS user and computer accounts.
- Create Groups and Organizational Units.
- Manage access to shared resources in an AD DS environment.
- Configure Active Directory Objects and Trusts.
- Create and configure Group Policy Objects.
- Configure user and computer environments by using Group Policy.
- Implement security by using Group Policy.
- Configure and analyze server security and security update compliance.
- Configure and manage storage technologies included with Windows Server 2008.
- Configure and manage Distributed File System.
- Configure Network Access Protection.
- Configure availability of network resources.
- Monitor and Maintain servers running Windows Server 2008.
- Manage a Windows Server 2008 Backup and Restore.

Lesson 1: Introduction to Administrative Tasks in Windows Server 2008

Environment. This lesson explains server roles, Active Directory, the Windows Server 2008 Administrative Tools and Remote Desktop.

Topic 1A: Server Roles

Topic 1B: Overview of Active Directory

Topic 1C: Using Windows Server 2008 Administrative Tools

Topic 1D: Using Remote Desktop for Administration

Lab : Administering Windows Server 2008

Configuring Remote Desktop for Administration

After completing this lab, students will be able to

- Describe server roles and how they are categorized.
- Describe the characteristics of Active Directory components.
- Describe common Windows Server 2008 Administrative Tools.
- Describe how to use Remote Desktop for Administration

Lesson 2: Creating Active Directory Domain Services User and Computer Objects. This lesson explains how to manage user accounts, create computer accounts and manage AD DS objects.

Topic 2A: Managing User Accounts

Topic 2B: Creating Computer Accounts

Topic 2C: Automating AD DS Object Management

Topic 2D: Using Queries to Locate Objects in AD DS

Lab : Creating AD DS User and Computer Accounts

- **Creating and Configuring User Accounts**
- **Creating and Configuring Computer Accounts**
- **Automating the Management of AD DS Objects**

After completing this lab, students will be able to:

- Configure AD DS user accounts.
- Configure AD DS computer accounts.
- Automate AD DS Object Management.
- Use queries to search AD DS.

Lesson 3: Creating Groups and Organizational Units. This lesson introduces groups and how to manage them.

Topic 3A: Introduction to Groups

Topic 3B: Managing Groups

Topic 3C: Creating Organizational Units

Lab : Creating an OU Infrastructure

- Creating AD DS Groups
- Planning an OU Hierarchy (Discussion)
- Creating an OU Hierarchy

After completing this lab, students will be able to:

- Describe the options for creating groups.
- Configure groups in AD DS.
- Configure OUs in AD DS.

Lesson 4: Managing Access to Resources in Active Directory Domain Services. This lesson explains how to manage access and assign and manage permissions.

Topic 4A: Managing Access Overview

Topic 4B: Assigning Permissions to Shared Resources

Topic 4C: Managing NTFS File and Folder Permissions

Topic 4D: Determining Effective Permission

Lab : Managing Access to Resources

- Planning a Shared Folder Implementation (Discussion)
- Implementing a Shared Folder Implementation
- Evaluating the Shared Folder Implementation

After completing this lab, students will be able to:

- Describe how access management works in AD DS.
- Assign permissions to shared folders.

- Configure permissions using NTFS.
- Determine effective permissions.

Lesson 5: Configuring Active Directory Objects and Trusts. This lesson explains how to delegate administrative access to AD DS objects and how to configure AD DS Trusts.

Topic 5A: Delegating Administrative Access to AD DS Objects

Topic 5B: Configuring AD DS Trusts

Lab : Configuring Active Directory Delegation and Trusts

- Delegating Control of AD DS Objects
- Configuring AD DS Trusts

After completing this Lessons, students will be able to:

- Delegate administrative access to Active Directory objects.
- Configure Active Directory trusts.

Lesson 6: Creating and Configuring Group Policy. This lesson explains how to configure and manage Group Policy Objects.

Topic 6A: Overview of Group Policy

Topic 6B: Configuring the Scope of Group Policy Objects

Topic 6C: Evaluating the Application of Group Policy Objects

Topic 6D: Managing Group Policy Objects

Topic 6E: Delegating Administrative Control of Group Policy

Lab : Creating and Configuring GPOs

- Creating Group Policy Objects
- Managing the Scope of GPO Application
- Verifying GPO Application

- Managing GPOs
- Delegating Administrative Control of GPOs

After completing this lab, students will be able to:

- Describe Group Policy.
- Configure the application scope for Group Policy Objects.
- Evaluate the application of Group Policy Objects.
- Manage Group Policy Objects.
- Delegate administrative control of Group Policy Objects.

Lesson 7: Configuring User Environments Using Group Policy

This lesson explains how to configure user environments using group policy.

Topic 7A: Configuring Group Policy Settings

Topic 7B: Configuring Scripts and Folder Redirection Using Group Policy

Topic 7C: Configuring Administrative Templates

Topic 7D: Configuring Group Policy Preferences

Topic 7E: Deploying Software Using Group Policy

Topic 7 F: Introduction to Group Policy Troubleshooting

Topic 7G: Troubleshooting Group Policy Application

Topic 7H: Troubleshooting Group Policy Settings

Lab : Configuring User Environments Using Group Policy

- Configuring Scripts and Folder Redirection
- Configuring Administrative Templates
- Configuring Preferences
- Verifying GPO Application

After completing this lab, students will be able to:

- Configure Group Policy settings.
- Configure scripts and folder redirection by using Group Policy.
- Configure administrative templates.
- Configure Group Policy Preferences.
- Deploy software by using Group Policy.
- Troubleshoot Group Policy Application.
- Troubleshoot Group Policy Settings.

Lesson 8: Implementing Security Using Group Policy

This Lesson explains how to configure security policies, implement password policies, restrict access to software and user security templates.

Lessons

Topic 8A: Configuring Security Policies

Topic 8B: Implementing Fine-Grained Password Policies

Topic 8C: Restricting Group Membership and Access to Software

Topic 8D: Managing Security Using Security Templates

Lab : Implementing Security Using Group Policies

- Configuring Domain Security Settings
- Implementing Fine-Grained Password Policies
- Configuring Restricted Groups and Software Restriction Policies
- Configuring Security Templates
- Verifying the Security Configuration

After completing this lab, students will be able to:

- Configure security policies.
- Implement fine-grained password policies.
- Restrict group membership and access to applications by using security policies.
- Apply security policies by using security templates.

Lesson 9: Configuring Server Security Compliance

This Lesson explains how to secure a windows infrastructure, configure an audit policy, manage WSUS and plan for a security update.

Lessons

- Topic 9A: Securing a Windows Infrastructure
- Topic 9 B: Configuring an Audit Policy
- Topic 9C: Overview of Windows Server Update Services
- Topic 9D: Managing WSUS
- Topic 9E: Planning for Security Update Management

Lab : Configuring Server Security Compliance

Configuring Windows Software Update Services

After completing this lab, students will be able to:

- Secure a server role within a windows infrastructure.
- Configure an audit policy.
- Describe the use of Windows Server Update Services.
- Manage updates using WSUS.
- Plan for security update management by using Windows Server Update Services (WSUS).

Lesson 10: Configuring and Managing Storage Technologies

This Lesson explains how to manage storage using File Server Resource Manager, configure quota management, implement file screening and manage storage reports.

Lessons

- Topic 10A:** Windows Server 2008 Storage Management Overview
- Topic 10B:** Managing Storage Using File Server Resource Manager
- Topic 10C:** Configuring Quota Management
- Topic 10D:** Implementing File Screening
- Topic 10E:** Managing Storage Reports
- Topic 10F:** Troubleshooting Storage Issues

Lab : Configuring and Managing Storage Technologies

- Installing the FSRM Role Service
- Configuring Storage Quotas
- Configuring File Screening
- Generating Storage Reports

After completing this lab, students will be able to:

- Describe storage management solutions included in Windows Server 2008.
- Manage storage using FSRM.
- Configure quota management using FSRM.
- Implement file screening using FSRM.
- Manage storage reports.
- Troubleshoot storage issues.

Lesson 11: Configuring and Managing Distributed File System. This lesson explains how to configure DFS namespaces and replication.

Lessons

Topic 11A: DFS Overview

Topic 11B: Configuring DFS Namespaces

Topic 11C: Configuring DFS Replication

Lab : Configuring DFS

- Installing the Distributed File System Role Service
- Creating a DFS Namespace
- Configuring Folder Targets and Folder Replication
- Viewing Diagnostic Reports for Replicated Folders

After completing this Lesson, students will be able to:

- Describe the distributed file system.
- Manage DFS namespaces.
- Configure DFS replication.

Lesson 12: Configuring Network Access Protection

This lesson explains how to configure, monitor and troubleshoot NAP.

Lessons

Topic 12A: Overview of Network Access Protection

Topic 12B: How NAP Works

Topic 12C: Configuring NAP

Topic 12D: Monitoring and Troubleshooting NAP

Lab : Configuring NAP for DHCP and VPN

- Configuring NAP for DHCP Clients
- Configuring NAP for VPN Clients

After completing this Lesson, students will be able to:

- Describe the benefits and uses of NAP.
- Describe how NAP works in various access scenarios.
- Configure NAP.
- Monitor and troubleshoot NAP.

Lesson 13: Configuring Availability of Network Resources

This lesson explains how to configure shadow copies and provide server and service availability.

Lessons

Topic 13A: Configuring Shadow Copies

Topic 13B: Providing Server and Service Availability

Lab : Configuring Availability of Network Resources

- Configuring Shadow Copying
- Configuring and Testing Network Load Balancing

After completing this Lesson, students will be able to:

- Configure shadow copies.
- Provide server and service availability.

Lesson 14: Monitoring and Maintaining Windows Server 2008 Servers

This Lesson explains how to monitor and maintain Windows Server 2008 servers.

Lessons

- Topic 14A: Planning Monitoring Tasks
- Topic 14B: Calculating a Server Baseline
- Topic 14C: Measuring Performance Objects
- Topic 14D: Analyzing key performance counters
- Topic 14E: Selecting Appropriate Monitoring Tools
- Topic 14F: Planning Notification Methods
- Topic 14G: Overview of Windows Server 2008 Maintenance Tasks
- Topic 14H: Automating Windows Server 2008 Maintenance

Lab : Identifying Windows Server 2008 Monitoring Requirements

- Evaluating Performance Metrics
- Monitoring Performance Metrics
- Configuring Data Collector Sets
- Evaluating Trends
- Monitoring Extension Exercise
- Automating Maintenance Tasks

After completing this Lesson, students will be able to:

- Plan monitoring tasks.
- Determine an appropriate server baseline.
- Determine objects and counters to monitor based on server role.
- Analyze key performance counters.
- Select appropriate monitoring tools.
- Identify appropriate notification methods.
- Create a server management task schedule for Windows Server 2008.
- List automated maintenance tools for Windows Server 2008.

Lesson 15: Managing Windows Server 2008 Backup and Restore

This Lesson explains how to back up and restore Windows Server 2008 servers.

Lessons

- Planning Backups with Windows Server 2008
- Planning Backup Policy on Windows Server 2008
- Planning a Server Restore Policy
- Planning an EFS Restore Policy
- Verifying Restored Data

Lab : Planning Windows Server 2008 Restore

- Evaluating Backup Data
- Planning a Restore
- Investigating a Failed Restore
- Restoring System State Data

After completing this Lessons, students will be able to:

- Create a backup and recovery plan by using Windows Server Backup.
- Develop a backup policy for Windows Server Backup.
- Create a server restore plan.
- Create a plan for restoring Encrypting File System (EFS) files.
- Verify the restore procedure.