

Configuring, Managing and Maintaining Windows Server 2008 Servers (MS6419)

Duration: 5 days

Description

This course combines 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 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.

Audience

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.

Prerequisites

Before attending this course, students must have:

- At least one year experience operating Windows Servers in the area of account management, server maintenance, server monitoring, or server security.
- A+, Server+, hardware portion of Net+, and familiarity with Windows (client side).
- Working knowledge of networking technologies.
- Intermediate understanding of network operating systems.
- Working experience with Windows Server 2003 and Windows Server 2008.
- Basic knowledge of Active Directory.
- An understanding of security concepts and methodologies (for example, corporate policies).
- Basic knowledge of TCP/IP.
- Basic knowledge of scripting tools such as PowerShell and WMI.

Topics

MODULE 1: INTRODUCTION TO MANAGING MICROSOFT WINDOWS SERVER 2008 ENVIRONMENT

The module explains server roles, Active Directory, the Windows Server 2008 Administrative Tools and Remote Desktop.

- Server Roles
- Overview of Active Directory
- Using Windows Server 2008 Administrative Tools

- Using Remote Desktop for Administration

Lab: Administering Windows Server 2008

- Install the DNS Server Role
- Configuring Remote Desktop for Administration

MODULE 2: CREATING ACTIVE DIRECTORY DOMAIN SERVICES USER AND COMPUTER OBJECTS

This module explains how to manage user accounts, create computer accounts and

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manage AD DS objects.

- Managing User Accounts
- Creating Computer Accounts
- Automating AD DS Object Management
- 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

MODULE 3: CREATING GROUPS AND ORGANIZATIONAL UNITS

This module introduces groups and how to manage them.

- Introduction to AD DS Groups
- Managing Group Accounts
- Creating Organizational Units

Lab: Creating an OU Infrastructure

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

MODULE 4: MANAGING ACCESS TO RESOURCES IN ACTIVE DIRECTORY DOMAIN SERVICES

The module explains how to manage access and assign and manage permissions.

- Managing Access Overview
- Managing NTFS File and Folder Permissions
- Assigning Permissions to Shared Resources
- Determining Effective Permission

Lab: Managing Access to Resources

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

MODULE 5: CONFIGURING ACTIVE DIRECTORY OBJECTS AND TRUSTS

This module explains how to delegate administrative access to AD DS objects and how to configure AD DS Trusts.

- Delegating Administrative Access to AD DS Objects
- Configuring AD DS Trusts

Lab: Configuring Active Directory Delegation

- Delegating Control of AD DS Objects

Lab: Configuring Active Directory Trusts

- Configuring AD DS Trusts

MODULE 6: CREATING AND CONFIGURING GROUP POLICY

This module explains how to configure and manage Group Policy Objects.

- Overview of Group Policy
- Configuring the Scope of Group Policy Objects
- Evaluating the Application of Group Policy Objects
- Managing Group Policy Objects
- Delegating Administrative Control of Group Policy

Lab: Creating and Configuring GPOs

- Creating and Configuring Group Policy Objects
- Managing the Scope of GPO Application

Lab: Verifying and Managing GPOs

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- Verifying GPO Application
- Managing GPOs
- Delegating Administrative Control of GPOs

MODULE 7: CONFIGURING USER AND COMPUTER ENVIRONMENTS USING GROUP POLICY

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

- Configuring Group Policy Settings
- Configuring Scripts and Folder Redirection Using Group Policy
- Configuring Administrative Templates
- Deploying Software Using Group Policy
- Configuring Group Policy Preferences
- Introduction to Group Policy Troubleshooting
- Troubleshooting Group Policy Application
- Troubleshooting Group Policy Settings

Lab: Configuring Scripts and Folder Redirection Using Group Policy

- Configuring Logon Scripts and Folder Redirection

Lab: Configuring Administrative Templates

- Configure Administrative Templates

Lab: Deploying Software with Group Policy

- Deploy a Software Package with Group Policy
- Verify Software Installation

Lab: Configuring Group Policy Preferences

- Configure Group Policy Preferences

- Verify Group Policy Preferences Application

Lab: Troubleshooting Group Policy Issues

- Troubleshoot Group Policy Scripts
- Troubleshoot GPO Lab-7B
- Troubleshoot GPO Lab-7C
- Troubleshoot GPO Lab-7D

MODULE 8: IMPLEMENTING SECURITY USING GROUP POLICY

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

- Configuring Security Policies
- Implementing Fine-Grained Password Policies
- Restricting Group Membership and Access to Software
- Managing Security Using Security Templates

Lab: Implementing Security Using Group Policies

- Configuring Account and Security Policy Settings
- Implementing Fine-Grained Password Policies

Lab: Configuring and Verifying Security Policies

- Configuring Restricted Groups and Software Restriction Policies
- Configuring Security Templates
- Verifying the Security Configuration

MODULE 9: CONFIGURING SERVER SECURITY COMPLIANCE

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

- Securing a Windows Infrastructure
- Configuring an Audit Policy

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- Overview of Windows Server Update Services (WSUS)
- Managing WSUS

Lab: Manage Server Security

- Configuring Windows Software Update Services
- Configure Auditing

MODULE 10: CONFIGURING AND MANAGING STORAGE TECHNOLOGIES

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

- Windows Server 2008 Storage Management Overview
- Managing Storage Using File Server Resource Manager
- Configuring Quota Management
- Implementing File Screening
- Managing Storage Reports
- Understanding Storage Area Networks

Lab: Installing the FSRM Role Service

- Installing the FSRM Role Service

Lab: Configuring Storage Quotas

- Configuring Storage Quotas

Lab: Configuring File Screening

- Configuring File Screening

Lab: Generating Storage Reports

- Generating Storage Reports

MODULE 11: CONFIGURING AND MANAGING DISTRIBUTED FILE SYSTEM

This module explains how to configure DFS namespaces and replication.

- Distributed Files System (DFS) Overview

- Configuring DFS Namespaces
- Configuring DFS Replication
- Lab: Installing the Distributed File System Role Service and Creating a DFS Namespace
- Installing the Distributed File System Role Service
- Creating a DFS Namespace

Lab: Configuring Folder Targets and Viewing Diagnostic Reports

- Configuring Folder Targets and Folder Replication
- Viewing Diagnostic Reports for Replicated Folders

MODULE 12: CONFIGURING NETWORK ACCESS PROTECTION

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

- Overview of Network Access Protection
- How NAP Works
- Configuring NAP
- Monitoring and Troubleshooting NAP

Lab: Configuring NAP for DHCP and VPN

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

MODULE 13: CONFIGURING AVAILABILITY OF NETWORK RESOURCES

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

- Configuring Shadow Copies
- Providing Server and Service Availability

Lab: Configuring Shadow Copying

- Configuring Shadow Copying

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Lab: Configuring and Testing Network Load Balancing

- Configuring and Testing Network Load Balancing

MODULE 14: MONITORING AND MAINTAINING WINDOWS SERVER 2008 SERVERS

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

- Planning Monitoring Tasks
- Calculating a Server Baseline
- Measuring Performance Objects
- Selecting Appropriate Monitoring Tools
- Planning Notification Methods
- Overview of Windows Server 2008 Maintenance Tasks
- Automating Windows Server 2008 Maintenance

Lab: Identifying Windows Server 2008 Monitoring Requirements

- Evaluating Performance Metrics
- Monitoring Performance Metrics

Lab: Configuring Windows Server 2008 Monitoring

- Configuring Data Collector Sets
- Monitoring Extension Exercise
- Automating Maintenance Tasks

MODULE 15: MANAGING WINDOWS SERVER 2008 BACKUP AND RESTORE

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

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

- Troubleshooting Windows Server 2008 Startup

Lab: Planning Windows Server 2008 Backup Policy

- Evaluating the Existing Backup Plan
- Updating the Backup Policy
- Reviewing Backup Policy and Plans
- Implementing the Backup Policy

Lab: Planning Windows Server 2008 Restore

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