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Course 6419A:

Configuring, Managing and Maintaining Windows Server 2008 Servers

Length:	5 Day(s)
Published:	February 23, 2009
Language(s):	English
Audience(s):	IT Professionals
Level:	200
Technology:	Windows Server 2008
Type:	Course
Delivery Method:	Instructor-led (classroom)

Course OutlineModule 1: Introduction to Managing Microsoft Windows Server

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

- › 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

After completing this module, 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.



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- › Describe how to use 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 manage AD DS objects. **Lessons**

- › 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

After completing this module, 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.

Module 3: Creating Groups and Organizational Units This module introduces groups and how to manage them. **Lessons**

- › 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



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After completing this module, students will be able to:

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

Module 4: Managing Access to Resources in Active Directory Domain ServicesThe module explains how to manage access and assign and manage permissions.**Lessons**

- › 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

After completing this module, 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.

Module 5: Configuring Active Directory Objects and TrustsThis module explains how to delegate administrative access to AD DS objects and how to configure AD DS Trusts.**Lessons**

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

Lab : Configuring Active Directory Delegation



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- › Delegating Control of AD DS Objects

Lab : Configuring Active Directory Trusts

- › Configuring AD DS Trusts

After completing this module, students will be able to:

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

Module 6: Creating and Configuring Group Policy This module explains how to configure and manage Group Policy Objects. **Lessons**

- › 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

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

After completing this module, students will be able to:

- › Describe Group Policy.
- › Configure the application scope for Group Policy Objects.
- › Evaluate the application of Group Policy Objects.



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- › Manage Group Policy Objects.
- › Delegate administrative control of Group Policy Objects.

Module 7: Configuring User and Computer Environments Using Group Policy

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

Lessons

- › 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



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Lab : Troubleshooting Group Policy Issues

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

After completing this module, 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.

Module 8: Implementing Security Using Group Policy

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

Lessons

- › 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



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- › Verifying the Security Configuration

After completing this module, 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.

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.

Lessons

- › Securing a Windows Infrastructure
- › Configuring an Audit Policy
- › Overview of Windows Server Update Services (WSUS)
- › Managing WSUS

Lab : Manage Server Security

- › Configuring Windows Software Update Services
- › Configure Auditing

After completing this module, 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).

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.



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Lessons

- › 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

After completing this module, 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.

Module 11: Configuring and Managing Distributed File System This module explains how to configure DFS namespaces and replication. **Lessons**



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- › 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

After completing this module, students will be able to:

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

Module 12: Configuring Network Access Protection

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

Lessons

- › 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



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After completing this module, 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.

Module 13: Configuring Availability of Network Resources

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

Lessons

- › Configuring Shadow Copies
- › Providing Server and Service Availability

Lab : Configuring Shadow Copying

- › Configuring Shadow Copying

Lab : Configuring and Testing Network Load Balancing

- › Configuring and Testing Network Load Balancing

After completing this module, students will be able to:

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

Module 14: Monitoring and Maintaining Windows Server 2008 Servers

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

Lessons

- › Planning Monitoring Tasks
- › Calculating a Server Baseline
- › Measuring Performance Objects
- › Selecting Appropriate Monitoring Tools



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- › 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

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.
- › 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.

Module 15: Managing Windows Server 2008 Backup and Restore

This module 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
- › Troubleshooting Windows Server 2008 Startup



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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

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

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.



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- › Basic knowledge of scripting tools such as Powershell and WMI.