MOC 6419: Configuring, Managing, and Maintaining Windows Server 2008

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.

Course Length
5-day course

Learning Objectives

- 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.

Exam Certification
This is part of a certification series 70-640 which includes courses 6419, 6425 and 6426.

Course Content

MODULE 1 - INTRODUCTION TO MANAGING MICROSOFT WINDOWS SERVER 2008 ENVIRONMENT

1. Server Roles
2. Oerview of Active Directory
3. Using Windows Server 2008 Administrative Tools
4. Using Remote Desktop for Administration
5. Lab: Administering Windows Server 2008
   Install the DNS Server Role
   Configuring Remote Desktop for Administration
6. Install the DNS Server Role
7. Configuring Remote Desktop for Administration

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

1. Managing User Accounts
2. Creating Computer Accounts
3. Automating AD DS Object Management
4. Using Queries to Locate Objects in AD DS
5. 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
6. Creating and Configuring User Accounts
7. Creating and Configuring Computer Accounts
8. Automating the Management of AD DS Objects

MODULE 3 - CREATING GROUPS AND ORGANIZATIONAL UNITS

1. Introduction to AD DS Groups
2. Managing Group Accounts
3. Creating Organizational Units
4. Lab: Creating an OU Infrastructure
   Creating AD DS Groups
   Planning an OU Hierarchy (Discussion)
   Creating an OU Hierarchy
5. Creating AD DS Groups
6. Planning an OU Hierarchy (Discussion)
7. Creating an OU Hierarchy

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

1. Managing Access Overview
2. Managing NTFS File and Folder Permissions
3. Assigning Permissions to Shared Resources
4. Determining Effective Permission
5. Lab: Managing Access to Resources
   Planning a Shared Folder Implementation (Discussion)
   Implementing a Shared Folder Implementation
   Evaluating the Shared Folder Implementation
6. Planning a Shared Folder Implementation (Discussion)
7. Implementing a Shared Folder Implementation
8. Evaluating the Shared Folder Implementation

MODULE 5 - CONFIGURING ACTIVE DIRECTORY OBJECTS AND TRUSTS

1. Delegating Administrative Access to AD DS Objects
2. Configuring AD DS Trusts
3. Lab: Configuring Active Directory Delegation
   Delegating Control of AD DS Objects
4. Delegating Control of AD DS Objects
5. Lab: Configuring Active Directory Trusts
   Configuring AD DS Trusts
6. Configuring AD DS Trusts

MODULE 6 - CREATING AND CONFIGURING GROUP POLICY

1. Overview of Group Policy
2. Configuring the Scope of Group Policy Objects
3. Evaluating the Application of Group Policy Objects

4. Managing Group Policy Objects
5. Delegating Administrative Control of Group Policy
6. Lab: Creating and Configuring GPOs
   Creating and Configuring Group Policy Objects
   Managing the Scope of GPO Application
   Verifying GPO Application
   Managing GPOs
   Delegating Administrative Control of GPOs
7. Creating and Configuring Group Policy Objects
8. Managing the Scope of GPO Application

MODULE 7 - LAB: VERIFYING AND MANAGING GPOS

1. Verifying GPO Application
2. Managing GPOs
3. Delegating Administrative Control of GPOs

MODULE 8 - CONFIGURING USER AND COMPUTER ENVIRONMENTS USING GROUP POLICY

1. Configuring Group Policy Settings
2. Configuring Scripts and Folder Redirection Using Group Policy
3. Configuring Administrative Templates
4. Deploying Software Using Group Policy
5. Configuring Group Policy Preferences
6. Introduction to Group Policy Troubleshooting
7. Troubleshooting Group Policy Application
8. Troubleshooting Group Policy Settings
9. Lab: Configuring Scripts and Folder Redirection Using Group Policy
   Configuring Logon Scripts and Folder Redirection
10. Configuring Logon Scripts and Folder Redirection
11. Lab: Configuring Administrative Templates
    Configure Administrative Templates
12. Configure Administrative Templates
13. Lab: Deploying Software with Group Policy
    Deploy a Software Package with Group Policy
    Verify Software Installation
14. Deploy a Software Package with Group Policy
15. Verify Software Installation
16. Lab: Configuring Group Policy Preferences
    Configure Group Policy Preferences
    Verify Group Policy Preferences Application
17. Configure Group Policy Preferences
18. Verify Group Policy Preferences Application
19. Lab: Troubleshooting Group Policy Issues
    Troubleshoot Group Policy Scripts
    Troubleshoot GPO Lab-7B
    Troubleshoot GPO Lab-7C
    Troubleshoot GPO Lab-7D
20. Troubleshoot Group Policy Scripts
21. Troubleshoot GPO Lab-7B
22. Troubleshoot GPO Lab-7C
23. Troubleshoot GPO Lab-7D

MODULE 9 - IMPLEMENTING SECURITY USING GROUP POLICY

1. Configuring Security Policies

2. Implementing Fine-Grained Password Policies
3. Restricting Group Membership and Access to Software
4. Managing Security Using Security Templates
5. Lab: Implementing Security Using Group Policies
Configuring Account and Security Policy Settings
Implementing Fine-Grained Password Policies
6. Configuring Account and Security Policy Settings
7. Implementing Fine-Grained Password Policies
8. Lab: Configuring and Verifying Security Policies
Configuring Restricted Groups and Software Restriction Policies
Configuring Security Templates
Verifying the Security Configuration
9. Configuring Restricted Groups and Software Restriction Policies
10. Configuring Security Templates
11. Verifying the Security Configuration

MODULE 10 - CONFIGURING SERVER SECURITY COMPLIANCE

1. Securing a Windows Infrastructure
2. Configuring an Audit Policy
3. Overview of Windows Server Update Services (WSUS)
4. Managing WSUS
5. Lab: Manage Server Security
   Configuring Windows Software Update Services
   Configure Auditing
6. Configuring Windows Software Update Services
7. Configure Auditing

MODULE 11 - CONFIGURING AND MANAGING STORAGE TECHNOLOGIES

1. Windows Server 2008 Storage Management Overview
2. Managing Storage Using File Server Resource Manager
3. Configuring Quota Management
4. Implementing File Screening
5. Managing Storage Reports
6. Understanding Storage Area Networks
7. Lab: Installing the FSRM Role Service
   Installing the FSRM Role Service
8. Installing the FSRM Role Service
9. Lab: Configuring Storage Quotas
   Configuring Storage Quotas
10. Configuring Storage Quotas
11. Lab: Configuring File Screening
   Configuring File Screening
12. Configuring File Screening
13. Lab: Generating Storage Reports
   Generating Storage Reports
14. Generating Storage Reports

MODULE 12 - CONFIGURING AND MANAGING DISTRIBUTED FILE SYSTEM

1. Distributed Files System (DFS) Overview
2. Configuring DFS Namespaces
3. Configuring DFS Replication
4. Lab: Installing the Distributed File System Role Service and
   Creating a DFS Namespace

Installing the Distributed File System Role Service
5. Installing the Distributed File System Role Service
6. Creating a DFS Namespace
Lab: Configuring Folder Targets and
Vewing Diagnostic Reports
7. Lab: Configuring Folder Targets and Viewing Diagnostic Reports
8. Configuring Folder Targets and Folder Replication
9. Viewing Diagnostic Reports for Replicated Folders

MODULE 13 - CONFIGURING NETWORK ACCESS PROTECTION

1. Overview of Network Access Protection
2. How NAP Works
3. Configuring NAP
4. Monitoring and Troubleshooting NAP
5. Lab: Configuring NAP for DHCP and VPN
Configuring NAP for DHCP Clients
Configuring NAP for VPN Clients
6. Configuring NAP for DHCP Clients
7. Configuring NAP for VPN Clients

MODULE 14 - CONFIGURING AVAILABILITY OF NETWORK RESOURCES

1. Configuring Shadow Copies
2. Providing Server and Service Availability
3. Lab: Configuring Shadow Copying
Configuring Shadow Copying
4. Configuring Shadow Copying
5. Lab: Configuring and Testing Network Load Balancing
Configuring and Testing Network Load Balancing
6. Configuring and Testing Network Load Balancing

MODULE 15 - MONITORING AND MAINTAINING WINDOWS SERVER 2008 SERVERS

1. Planning Monitoring Tasks
2. Calculating a Server Baseline
3. Measuring Performance Objects
4. Selecting Appropriate Monitoring Tools
5. Planning Notification Methods
6. Overview of Windows Server 2008 Maintenance Tasks
7. Automating Windows Server 2008 Maintenance
8. Lab: Identifying Windows Server 2008 Monitoring Requirements
Evaluating Performance Metrics
Monitoring Performance Metrics
9. Evaluating Performance Metrics
10. Monitoring Performance Metrics
11. Lab: Configuring Windows Server 2008 Monitoring
Configuring Data Collector Sets
Monitoring Extension Exercise
Automating Maintenance Tasks
12. Configuring Data Collector Sets
13. Monitoring Extension Exercise
14. Automating Maintenance Tasks

MODULE 16 - MANAGING WINDOWS SERVER 2008 BACKUP AND RESTORE

1. Planning Backups with Windows Server 2008
2. Planning Backup Policy on Windows Server 2008
3. Planning a Server Restore Policy
4. Planning an EFS Restore Policy
5. Troubleshooting Windows Server 2008 Startup
6. 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
7. Evaluating the Existing Backup Plan
8. Updating the Backup Policy
9. Reviewing Backup Policy and Plans
10. Implementing the Backup Policy
11. Lab: Planning Windows Server 2008 Restore
    Evaluating Backup Data
    Planning a Restore
    Investigating a Failed Restore
    Restoring System State Data
12. Evaluating Backup Data
13. Planning a Restore
14. Investigating a Failed Restore
15. Restoring System State Data

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