Installing, Configuring, and Managing a Microsoft Active Directory

Course Outline

Part 1: Configuring and Managing Active Directory Domain Services

Modules
- Installing Active Directory Domain Services
- Managing User and Computer Accounts
- Managing Groups

Part 2: Implementing a Group Policy Infrastructure

Modules
- Implementing a Group Policy Infrastructure
- Managing User Desktop with Group Policy

Part 3: Managing Enterprise Security and Configuration

Modules
- Managing Enterprise Security and Configuration with Group Policy Settings
- Improving the Security in an AD DS Domain
- Directory Service Continuity
Module 1: Installing Active Directory Domain Services

This module provides an overview of Active Directory components and concepts and steps through the basics of installing and configuring an Active Directory domain.

Lessons

- Active Directory Components and Concepts
- Install Active Directory Domain Services
- Work with Active Directory Administration Tools
- Custom Consoles and Least Privilege Principle
- Delegate Administrative Permissions

Labs

- Choose Names and Configure DNS Service for a New Active Directory Domain
- Install a New Windows Server 2008 Single Domain Forest
- Perform Administrative Tasks by Using Administrative Tools and Custom Consoles
- Perform Administrative Tasks with Least Privilege, Run As Administrator, and User Account Control
- Delegate Permission to Create and Support User Accounts
- View and Reset Delegated Permissions

Module 2: Managing User and Computer Accounts

This module explains how to create, manage and support user and computer Accounts in Active Directory.

Lessons

- Administer User Accounts
- Configure User Object Attributes
- Manage Computer Account

Labs

- Create and Administer User Accounts
- Examine and Manage User Object Attributes
- Join a computer to the Domain with the Windows Interface
- Manage Computer Account Creation

Module 3: Managing Groups
This module explains how to create, modify, delete, and support group objects in Active Directory.

**Lessons**
- Overview of Groups
- Administer Groups
- Best Practices for Group Management

**Labs**
- Managing Local Groups
- Implement Role-Based Management by Using Domain Groups
- Implement Best Practices for Group Management

**Module 4: Implementing a Group Policy Infrastructure**

This module explains what Group Policy is, how it works, and how best to implement Group Policy in your organization.

**Lessons**
- Understand Group Policy
- Implement GPOs
- Manage Group Policy Scope
- Group Policy Processing
- Troubleshoot Policy Application

**Labs**
- Create, Edit, and Link GPOs
- Use Filtering and Commenting
- Configure GPO Scope with Links
- Configure GPO Scope with Filtering
- Configure Loopback Processing
- Perform RSoP Analysis
- View Policy Events

**Module 5: Managing User Desktop with Group Policy**
This module explains how to manage and configure desktop environments using Administrative templates and Group Policy Preferences as well as how to deploy software using Group Policy

Lessons

• Implement Administrative Templates
• Configure Group Policy Preferences
• Manage Software with GPSI

Labs

• Manage Administrative Templates
• Configure Group Policy Preferences
• Verify Group Policy Preferences Application
• Deploy and Upgrade Applications with GPSI

Module 6: Managing Enterprise Security and Configuration with Group Policy Settings

This module explains how to use Group Policy to manage a variety of components and features of Windows. It will also explain how to audit files and folders.

Lessons

• Manage Group Membership by Using Group Policy Settings
• Implement Auditing
• Audit Object Access and Active Directory Administration
• Import Security Settings

Labs

• Configure a Group Membership by Using Restricted Group Policies
• Configure NTFS and Registry Permissions
• Configure Audit Policy
• Examine Audit Results
• Create a Security Template

Module 7: Improving the Security in an AD DS Domain
This module explains the domain-side components of security and authentication, including the policies that specify password requirements authentication-related activities. It will also provide overview of digital certificate implementation for additional security.

Lessons

• Understand Password and Lockout Policies
• Manage Security Options
• Certificate Services

Labs

• Configure the Domain’s Password and Lockout Policies
• Configure a Fine-Grained Password Policy
• Configure Security Options
• Install Certificate Authority

Module 8: Directory Service Continuity

This module explains about the technologies and tools that are available to help ensure the health and longevity of the directory service.

Lessons

• Manage the Active Directory Database
• Active Directory Recycle Bin
• Back Up and Restore AD DS and Domain Controllers
• Multiple Domain Controllers

Labs

• Work with Snapshots and Recover a Deleted User
• Enable Active Directory Recycle Bin
• Restore Deleted Objects with Active Directory Recycle Bin
• Back Up and Restore Active Directory
• Install Additional Domain Controller