

CIT 261

Windows 2000 Directory Services Administration

Course Description

This course is designed to provide students with the knowledge and skills necessary to install, configure, and administer Microsoft Windows 2000 Active Directory services. The course also focuses on implementing Group Policy and understanding the Group Policy tasks required to centrally manage users and computers. This course is part of the Microsoft Certified Systems Engineer series. Prerequisites: CIT 212; or consent of instructor.

Course Competencies

Upon successful completion of this course, the student can:

1. Describe the logical and physical components of Active Directory
2. Configure the DNS Server service to support Active Directory
3. Create a Windows 2000 domain by installing Active Directory on a computer running Windows 2000 Server
4. Set up and administer domain user accounts and groups
5. Publish resources—including shared folders, printers and services—in Active Directory;
6. Delegate administrative control of Active Directory objects to decentralize administration in a Windows 2000 network
7. Implement Group Policy to centrally manage users and computers
8. Use Group Policy to configure and manage the user desktop environment
9. Use Group Policy to deploy and manage software
10. Use Group Policy to implement and manage security settings
11. Create and manage Active Directory trees and forests
12. Manage Active Directory replication within a site and between sites
13. Manage operations masters
14. Manage and restore the Active Directory database
15. Implement and administer Active Directory based on a directory services design provided by an enterprise architect.

Course Outline

- I. Introduction to Windows 2000 Active Directory
 - A. What is Active Directory
 - B. Active Directory Objects
 - C. Active Directory Schema
 - D. Lightweight Directory Access Protocol (LDAP)
 - E. Active Directory Logical Structure
 - F. Active Directory Physical Structure
 - G. Administering a Windows 2000 Network
 1. Using Active Directory for Centralized Management
 2. Using Group Policy for Centralized Management
 3. Delegating Administrative Control

- II. Configuring the Domain Name System (DNS) Server service to support Active Directory
 - A. DNS Namespace
 - B. Service Resource (SRV) Records
 - C. How Clients use DNS to Locate Domain Controllers
- III. Creating a Windows 2000 domain
 - A. Introduction to Creating a Windows 2000 Domain
 - B. Installing Active Directory
 - C. Performing Post Active Directory Installation Tasks
 - D. Examining the Default Structure of Active Directory
 - E. Implementing and Organizational Unity Structure
 - F. Removing Active Directory
- IV. Creating and Administering User Accounts and Group Resources
 - A. Introduction to Logon Names
 - B. Creating Multiple Domain User Accounts
 - C. Using Groups in Active Directory
 - D. Strategies for Using Groups in a Domain
- V. Publishing Resources
 - A. Introduction to Publishing Resources
 - B. Setting Up and Administering Published Printers
 - C. Creating Printer Locations
 - D. Setting Up and Administering Published Shared Folders
 - E. Locating Resources
- VI. Delegating Administrative Control of Active Directory Objects
 - A. Object Security in Active Directory
 - B. Controlling Access to Active Directory Objects
 - C. Delegating Administrative Control
 - D. Customizing MMC Controls
 - E. Setting Up Taskpads
- VII. Implementing Group Policy
 - A. Introduction to Group Policy
 - B. Group Policy Structure
 - C. Working with Group Policy Objects
 - D. Modifying Group Policy Inheritance
 - E. Delegating Administrative Control of a Group Policy Object
- VIII. Managing User environments by using Group Policy
 - A. Introduction to Managing User Environments
 - B. Using Administrative Templates in Group Policy
 - C. Assigning Scripts in Group Policy
 - D. Using Group Policy to Redirect User Folders
 - E. Using Group Policy to Secure the User Environment
- IX. Deploying and Managing Software by Using Group Policy
 - A. Introduction to Managing Software Deployment
 - B. Windows Installer Technology
 - C. Deploying Software
 - D. Configuring Software Deployment
 - E. Maintaining Deployed Software

- F. Removing Deployed Software
- G. Troubleshooting Software Deployment
- X. Creating and Managing Trees and Forests in Windows 2000
 - A. Introduction to Trees and Forests in Windows 2000
 - B. Creating Trees and Forests
 - C. Trust Relationships in Trees and Forests
 - D. The Global Catalog
 - E. Strategies for Using Groups in Trees and Forests
- XI. Managing Active Directory Replication
 - A. Replication Components and Processes
 - B. Replication Topology
 - C. Using Sites to Optimize Active Directory Replication
 - D. Implementing Sites to Manage Active Directory Replication
 - E. Monitoring Replication Traffic
 - F. Adjusting Replication
- XII. Managing Operations Masters
 - A. Introduction to Managing Operations Masters
 - B. Operation Master Roles
 - C. Managing Operations Masters
 - D. Managing Operation Master Failures
- XIII. Maintaining and Restoring the Active Directory Database
 - A. Introduction to Maintaining the Active Directory Database
 - B. Modifying Data in Active Directory
 - C. Moving the Active Directory Database
 - D. Defragmenting the Active Directory Database
 - E. Backing Up the Active Directory
 - F. Restoring Active Directory