

CIT 213—Netware System Administration (3)

Course Description

This course is designed to provide students with the necessary knowledge and skills to perform competently in the role of network administrator or system manager. Students completing this course will be able to perform basic and fundamental network management tasks on a Novell NetWare network. Lecture: 2 hours, lab: 2 hours. Prerequisites: CIT 160; or consent of instructor.

Course Competencies

Upon successful completion of this course, the student can:

1. Create and administer user and group accounts.
2. Determine NetWare Directory Services structure.
3. Troubleshoot problems that prevent users from logging on to the network.
4. Manage network resources.
5. Setup and administer permissions for files and folders.
6. Setup a printing environment
7. Use auditing functions to generate and view security logs; monitor network resources and track usage and disk space.
8. Backup and restore files and folders using tapes.

Course Outline

- I. Introduction to NetWare
 - A. What is a network?
 - B. What is NetWare?
 - C. NetWare administrator Responsibilities
 - D. Network Resources and Services
 - E. Introduction to NetWare Directory Services
 - F. Introduction to EMA
 - G. How the Directory Tree affects resource access
- II. Connecting to the network and logging in
 - A. Enabling network communication
 - B. Understanding the network connection
 - C. Login concepts
 - D. Login process for Windows
- III. Accessing data files and applications on the network
 - A. Introduction to the network file system
 - B. Performing file system tasks
 - C. Displaying file system information
 - D. Accessing the file system
 - E. Mapping network drives with Windows95/98/2000
 - F. Mapping drives with NetWare user tools for Windows
 - G. Introduction to NetWare command line utilities
 - H. Mapping network drives with MAP
 - I. Accessing Volumes
 - J. Accessing directories

- K. Accessing network applications
- L. Mapping a drive to a directory map object
- IV. Printing to a network printer
 - A. Network printing overview
 - B. Print job redirection
 - C. Redirecting print jobs with CAPTURE
 - D. Sending print jobs with NPRINT
 - E. Redirecting print jobs in MS Windows
- V. Setting up user accounts and login security
 - A. Introduction to user object management
 - B. Introduction to NetWare Administrator
 - C. Creating user objects with UIMPORT
 - D. Introduction to Network Security
 - E. Login Security
- VI. Setting up the Network file system
 - A. Introduction to planning a network file system
 - B. Suggestions on creating volumes
 - C. System-created directories
 - D. Possible directory structures
- VII. Managing the file system
 - A. Introduction to managing the network file system
 - B. File system management utilities
 - C. Managing the directory structure
 - D. Managing files
 - E. Managing volume space usage
- VIII. Setting up file system security
 - A. How file system security works
 - B. Planning file system rights
 - C. Planning attribute security
 - D. Implementing file system security
- IX. Accessing and protecting the NetWare server console
 - A. NetWare 4 server overview
 - B. Loading NLMs
 - C. Execution of Console commands
 - D. Accessing the server console from a workstation
 - E. Protecting your server
- X. Setting up network printing
 - A. Network printing setup overview
 - B. Creating and configuring printing objects
 - C. Activating the Print server
 - D. Connecting a printer to a network
 - E. Managing network print services
 - F. Customizing print jobs
- XI. Installing and configuring Client 32 on Workstations
 - A. Client 32 Installation procedure for Windows2000
 - B. Client 32 Installation procedure for Windows95/98

- C. Automatic client upgrade
- XII. Creating Login Scripts
 - A. Login script overview
 - B. Designing login script systems
 - C. Creating, Executing, and Debugging login scripts
 - D. Login scripts and the NetWare GUI login utility
- XIII. Configuring Network Applications for Users
 - A. Introduction to the NetWare application manager
 - B. Using NAM to configure NDS and the file system for NAL
 - C. Launching network application with NAL
- XIV. Managing NDS security
 - A. NDS security
 - B. Object trustees
 - C. Object rights
 - D. Property rights
 - E. NDS inheritance