

AIX Systems Administration Networking Features and Setup v7.2

Course Summary

Description

This course will teach the commands and methods needed to setup and manage advanced features in a UNIX system. The course will also use a problem solving approach in the lab exercises to teach system managers the proper application of advanced features.

Objectives

After taking this course, students will be able to:

- Implement networking features for the system and its users
- Define name service capabilities
- Use advanced options and setups for the shell command interpreters

Topics

- Review of System Concepts for Systems Administrators
- Advanced Network Features
- File Transfer Capabilities
- Advanced Network File System (NFS) Features
- Using and Configuring Samba
- Name Services
- Configuring Remote Printers
- Tape Device Access through TCP/IP
- Maintaining System Integrity

Prerequisite

It is assumed that the student has completed the Fundamentals of AIX and the IBM AIX Systems Administration: Essential Operations courses, or has equivalent system experience.

Duration

Three Days

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Course Outline

- I. *Review of System Concepts for Systems Administrators*
 - A. Process concepts
 - B. Shell command usage and review
- II. *Advanced Network Features*
 - A. Review of network basic setup
 - B. Subnet addressing
 - C. Using arp (address resolution protocol)
 - D. Network statistics
 - E. Controlling the inetd process
 - F. Miscellaneous network commands/tools
- III. *File Transfer Capabilities*
 - A. The ftp utility
 - B. setup
 - C. file capabilities
 - D. additional features
 - E. Using trivial ftp (tftp)
 - F. Advanced Network File System (NFS) Features
 - G. Review of basic NFS setup
- IV. *Advanced capabilities of server setup*
 - A. Advanced capabilities in client setup
 - B. Using the automount feature
- V. *Using and Configuring Samba*
 - A. Reasons for using samba features
 - B. Selecting a server host
 - C. Defining client hosts
- VI. *Name Services*
 - A. Capabilities of DNS
 - B. BIND configurations
 - C. Configuring the resolver
 - D. Configuring the named process
 - E. Cache initialization
 - F. Using nslookup to obtain information
- VII. *Configuring Remote Printers*
 - A. Printer setup databases (and control)
 - B. Remote printer usage
- VIII. *Tape Device Access through TCP/IP*
 - A. Using data dump (dd)
 - B. Combining tar with dd
 - C. Remote file system dumping
 - D. Setting up anonymous ftp
- IX. *Maintaining System Integrity*
 - A. Specifying auditing events
 - B. Improving shell performance
 - C. Using the error report facility
 - D. More on performance analysis