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Building World Class MIS Teams, for you!

CU009 - UNIX System Administration

Length: 5 Days

Description:

Attendees of this course will learn how to perform most day-to-day system administration tasks. Topics include system startup and shutdown, adding/deleting users, installing terminals, modems, and printers, backing up and restoring system and user data, application package installation, security, and general administrative advice. A diskette containing helpful System Administration utilities and guidelines is also provided to each attendee.

Course Objectives:

Upon completion of this course you will be able to:

1. start up and shut down a UNIX system gracefully,
2. monitor system status to determine correct operation,
3. add and delete user accounts and groups,
4. add and configure terminals and printers,
5. create new filesystems, check the integrity of filesystems, and repair damaged filesystems,
6. perform complete and incremental filesystem backups and restores,
7. identify UNIX floppy and tape device special files,
8. use the cpio and tar archive programs for data storage and retrieval,
9. set up and use the cron and at facilities,
10. install the UNIX operating system.

Course Materials

1. UNIX System V Administration Student Guide and course notes.
2. Essential System Administration, by O'Reilly & Associates.
3. UNIX System Administration Software Diskette

Prerequisites

1. CU001 - Fundamentals of UNIX

Course Content

I OVERVIEW OF SYSTEM ADMINISTRATION

- A Duties of the system administrator
- B UNIX system administration commands and utilities
- C Configuration files and scripts
- D Log files

Course Objectives:

II SYSTEM STARTUP AND SHUTDOWN

- A Applying power
- B Run levels
- C Setting the date and time
- D Checking system status
- E System shutdown

III ADDING AND DELETING USERS

- A The /etc/passwd and /etc/group files
- B Adding a new user
- C Setting up a user's .profile file.
- D Deleting a user

IV MAINTAINING FILE SYSTEMS

- A Monitoring disk space
- B Checking file systems
- C Creating new file systems
- D Mounting/unmounting file systems

V ADDING PERIPHERALS TO THE SYSTEM

- A Terminals
- B Printers
- C Modems

VI DISK/TAPE MANAGEMENT

- A Disk/Tape Devices
- B The tar command
- C The cpio command

VII PERFORMING FILE BACKUPS AND RESTORES

- A Backup strategies
- B Using the cpio and tar commands.
- C Backing up file systems.
- D Restoring files.

VIII TASK SCHEDULING

- A The cron demon.
- B The at command.

IX OPERATING SYSTEM INSTALLATION

- A Pre-Installation Tasks
- B Installing the base operating system
- C Installing additional packages