

AIX 7.1 System Administration I Course Summary

Length: 5 days

Recommendation Statement:

Student should have completed the AIX Fundamentals course or have equivalent experience using AIX.

Course Description:

This course teaches basic and advanced topics AIX Administration and is equivalent to IBM's AN120 course. The operating system will be AIX 7.1. The course is taught on an IBM AIX system.

Topics Covered in this Course:

- Overview of AIX server configurations (standalone, LPAR, WPAR)
- AIX System Administration Tools
- Install the AIX operating system
- System Startup and Shutdown
- Understand and manage system devices
- Printer and Queues
- Understand Volume Manager concepts
- Manage File Systems
- Manage Paging Space
- Backup and Restoration concepts
- Understand how to implement system and network security
- Managing and Scheduling Processes
- Understand how to configure the network
- Create basic workload partitions (WPARs)

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Detail Course Outline

- I. Introduction to the IBM Power System and AIX Administration
- II. Describe server configurations: standalone and server partitioning concepts (LPARs and WPARs)
- III. Introduction to the AIX system administration tools (GUI and command line)
- IV. AIX operating system installation and maintenance
 - a. Install the OS
 - b. Install OS maintenance updates
- V. System Start-up and Shutdown
 - a. Describe the boot process
 - b. Describe the start-up sequence of events
 - c. Describe how to properly shutdown an AIX system
- VI. Understand and configure system devices
- VII. Understand how to setup and maintain Printers and Queues
- VIII. Understand storage concepts and the Logical Volume Manager (LVM)
 - a. Physical Volumes
 - b. Hdisk overview
 - c. Physical volume commands
- IX. Configure storage and file systems using LVM
 - a. Adding a file system
 - b. Expanding a file system
 - c. Removing a file system
 - d. mount and umount commands
- X. Understand paging Space
 - a. Adding and activating paging space
- XI. Backup and Restore
 - a. sysback utility
 - b. What to backup.
 - c. Bootable image
 - d. File and Directory backup.
- XII. Security
 - a. Controlling root access
 - b. Securing network access
 - c. Securing file access
 - d. Trusted access
 - e. Passwords
 - f. Changing passwords
 - g. User administration

- XIII. Understanding system processes and scheduling
 - a. Cron and `at` overview
 - b. System processes
 - c. Stopping processes

- XIV. Configuring the Network
 - a. Ethernet adapter overview
 - b. Configure the network interface
 - c. Use standard TCP/IP facilities
 - d. Configure NFS

- XV. Introduction to workload partitions (WPARs)
 - a. Understand WPARs
 - b. Create, activate and manage a basic WPAR