

AIX Administration

Description

This course, teaches the installation, customisation and day-to-day running of the AIX operating system. The course comprises formal classroom teaching and a number of practical, hands-on sessions.

At the completion of this course you will be able to:

- install AIX 6.1 and install subsequent software and fixes
- perform system shutdown and startup
- use SMIT for system administration
- configure and administer hardware
- describe how the LVM works
- create, administer and query Volume Groups, Logical Volumes and Physical Volumes
- create and administer jfs2 filesystems
- configure paging space
- configure AIX users and Groups
- backup and restore a system
- run jobs at scheduled times.

Outline

Administration introduction

- The root account; using su; why AIX is different from vanilla UNIX.

AIX installation

- Installation methods - CD, NIM, mksysb; the install process; important post-install tasks.

System administration tools

- Using smit; text vs GUI smit; using webmin; don't forget the command line.

The AIX boot process

- Basic overview; the role of the BLV; the AIX bootlists; AIX runlevels and states; how init reads /etc/inittab; the /etc/rc file; controlling services with the SRC; system shutdown.

Software administration

- AIX software concepts - from LPP to filesets; installing software; software states; configuring software; installing and configuring fixes; SUMA.

Hardware administration

- The role of the ODM; the structure of the /dev directory; how cfgmgr works; rdware states; listing, adding and configuring hardware; physical vs AIX location codes.

Disk management

- Creating and configuring Volume Groups; creating and configuring Logical Volumes; striping and mirroring Logical Volumes; where LVM information is held.

Using jfs2

- The structure of the jfs2 filesystem; concepts of journaling; creating, mounting, unmounting and resizing jfs2 filesystems; /etc/filesystems; running fsck; setting up filesystems quotas; monitoring filesystems.

System backup and recovery

- Archiving devices; backing up and restoring Volume Groups with mksysb and savevg; full and incremental backups of filesystems; how to restore a filesystem; using jfs2

splitcopy.

Memory and swap space

- Listing memory and memory usage; configuring and monitoring page space.

Scheduling Jobs

- Using crontab, and at; security issues; using /etc/qconfig as a batch processor.

Users and Groups

- The AIX view of users; the login process; the user and group databases in /etc and /etc/security; add, change and delete users and groups; user configuration files; password management; using ulimit.

Basic Security

- The setuid, setgid and sticky permissions; recap on umask; using ACLS; reading log files.

Printing on AIX

- How qdaemon works; the /etc/qconfig file; print queues and virtual printers; make up your own backend; controlling print jobs.

Prerequisites

Attending the AIX Fundamentals course