

Sysadmin Academy

Certified HP Unix Administrator

Course Syllabus

Introduction to HP UX Administration

- The Role of the System Administrator
- Hardware Responsibilities
- Software Responsibilities
- Responsibilities to the Users

Overview of SAM

- Using the SAM GUI
- Using the SAM Terminal Interface

Creating and Managing User Accounts

- Users & Groups - Access to System and Data
- The /etc/passwd File
- The /etc/group File
- Creating User Accounts with SAM
- Managing User Accounts from the Command Line
- The /etc/skel Directory
- Customizing User Accounts

HP UX File Hierarchy

- Introducing the File System Paradigm
- The File System Layout
- Application Directories

Connecting Peripherals

- The HP Product Family
- I/O Architecture Terminology
- I/O Expansion
- Device Adapters
- Types of SCSI
- SCSI Device Power Up Guidelines
- Viewing the Configuration with ioscan

Shutdown and Reboot

- HP UX Operation States
- Changing State with Shutdown and Reboot
- System Boot Introduction
- System Boot Players
- System Boot Process Overview
- Autoboot versus Manual Boot
- Initiating the Boot Sequence
- Interacting with the PDC/BootRom
- Interacting with the ISL
- Run Levels
- Changing Run Levels with init
- Configuring init via /etc/inittab

Managing Software with SD UX

- Introducing SD UX
- SD UX Software Structure
- SD UX Software Depots
- SD UX IPD
- SD UX Daemon/Agents
- swinstall Main Menu
- Starting the Update
- Installing Protected Software
- Listing Software
- Removing Software
- SD UX Command Summary

Patch Management (SD UX)

- Patch Naming Conventions
- Obtaining Patches
- Retrieving Patches from the Web Patch Database
- Retrieving Patches from Tape or CD
- Installing Patches with swinstall
- Listing Patches
- Removing Patches

Configuring Device Files

- Listing Device Files with ll, ioscan, lssf
- The Layout of /dev
- Device File Naming Convention
- Auto configuration
- Creating Device Files with SAM

Configuring Disk Devices

- Disk Partitioning
- LVM Disk Partitioning
- LVM Device Files
- LVM Extents
- Creating Physical Volumes, Volume Groups, Logical Volumes

File System Concepts

- File System Types
- HP UX Hard Links, Symbolic Links
- HFS Structural Overview
- HFS Blocks, Fragments, Implications
- JFS Structural Overview
- JFS Blocks, Extents and Implications

File System Creation

- Overview of File System Creation
- The newfs Command
- The umount Command
- Automatically Mounting File Systems

File System Management

- Monitoring Disk Usage
- Routine Management
- Extending a Volume Group, Logical volume and File System

Managing Swap Space

- System Memory
- Enabling Swap via /etc/fstab
- Monitoring Swap Space Usage

File System Repair

- File System Maintenance
- File System Updates
- Flushing Buffer Cache
- Running fsck
- Checking lost+found

Scheduling cron Jobs

- The cron Daemon
- cron file
- Managing cronfile with crontab
- What Happens When a Job is Scheduled?

System Backup

- Using fbackup
- Using frecover
- Network Backup and Recovery
- Being Prepared with make_recovery
- Creating a Recovery Tape
- Updating the Recovery Tape

Connecting to a Network

- Setting an IP Address and Subnet Mask
- Setting a Default Route
- Setting a System Hostname
- Resolving Hostnames to IP Addresses
- Configuring /etc/hosts
- Configuring a DNS Client
- Choosing a Look Up Service
- Troubleshooting Tools