

HP 教育訓練中心課程簡介

Fundamentals of the UNIX system (51434S)



本課程提供初學者快速導覽學習UNIX操作，內容包括UNIX 的基本概念、指令語法、常用指令、文件編輯和基本shell編程程式等基礎操作。

適合對象

系統管理員、網路管理員、軟體開發者

先修課程

無

課程目標

- Prepare for our HP-UX system administration and software development courses
- Learn to use your UNIX system effectively and save time by automating tasks with shell programs
- Customize your UNIX system to meet your individual needs
- Learn how to use the full capabilities of your system through hands-on lab exercises

課程效益

- Build your UNIX knowledge and command skills
- Increase your productivity
- Prepare for additional education in HP education's HP-UX system administration courses

Course title: UNIX Fundamentals

HP product number: 51434S

Category/Subcategory: Linux

Course length: 5 days

Level: Intermediate

To review course schedules and to register for a course, visit www.hp.com.tw/education

進階課程

HP-UX System and Network Administration I (H3064S)

課程大綱

Introduction to UNIX

- UNIX structure and capability overview
- UNIX history

- UNIX standards

Logging in and general orientation

- Logging in and logging out
- Viewing online man pages
- Executing basic UNIX commands

Navigating the file system

- UNIX File system layout concepts
- Absolute and relative pathname concepts
- Navigating and viewing directories with cd, pwd, and ls
- Creating and removing directories with mkdir and rmdir
- Searching directories with find

Managing Files

- File concepts
- File characteristics
- Viewing files with cat, more, head, and tail
- Printing files with lp,lpstat, and cancel
- Managing files with cp,in and rm

File permissions and access

- UNIX file permission concepts
- Managing file permissions with chmod and umask
- Managing other attributes with chgrp, chown, and touch
- Changing user and group identities with su and chgrp

Introduction to the vi editor

- Editing files with vi editor

Shell Basics

- Shell features
- Shell types
- Using command aliasing
- Using command line recall and editing
- Modifying TERM, PATH, and other environment variables

File name generation

- File name generation character concepts
- File name generation characters: ?, [], and *

Quoting

- Quoting concepts
- Quoting characters: ", ', `

Input and output redirection

- Redirecting standard input,standard output and standard error
- Using sort,wc, and grep filters

Pipes

- Shell pipeline concepts
- Using tee, cut, tr, more, and pr filters

Network services

- Local Area Networks (LANs)
- Hostnames
- Testing connectivity: ping
- ARPA services: telnet, ftp
- erkeley services: rlogin, remsh, rcp
- Secure shell Services: ssh, scp, sftp

Process management

- Process overview
- Listing processes with ps
- Starting processes in the background with "&"
- Starting processes in the background with nohup
- Moving jobs to the background and foreground with bg and fg
- Prioritizing processes with nice
- Terminating processes with signals
- Terminating processes with kill
- Scheduling processes with cron and crontab
- Scheduling processes with at

Introduction to shell programming

- Writing simple shell programs
- Using environment variables in shell scripts
- Using positional parameters in shell scripts
- Using read in shell scripts

Shell programming branches

- Using if and case constructs for conditional branching
- Using and generating return codes

- Using string, integer, and file tests

Shell programming loops

- Performing arithmetic in the shell
- Shell script while loops
- Shell script until loops
- Shell script for loops

Offline file storage

- Creating and using tar archives
- Creating and using cpio archives

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