Malcolm Kayser Computer Training Limited

UNIX FUNDAMENTALS FOR SYSTEM ADMINISTRATORS

This course introduces the UNIX operating system, commands, the file system, the vi editor, printing, utilities, shell scripting, sed, awk, and basic system administration of a UNIX environment. Although it is an introduction to the UNIX operating system and system administration, it is intended to provide more than just an overview to many of its features.

Audience

The intended audience is for those who have little or no previous experience of working in a Sun Solaris UNIX environment.

Prerequisites

Experience and understanding of another computer operating system is assumed.

Duration

5 days, hands-on.

Course Objectives

On completion of this course, the delegate will be able to:

- Understand the history and ethos behind UNIX
- Use the basic features of the UNIX environment
- Understand the structure of the UNIX filesystem
- Use commands to create and manipulate files and directories
- Explain the reason behind connecting one or more programs together to provide functionality
- Use the text editor *vi*
- Use the Korn shell command-line interpreter, but also be aware of other shells
- Use filename generation metalanguage
- Use command recall and history
- Manipulate processes
- Control foreground and background tasks
- Write basic shell scripts
- Carry out basic system administration

- Use the Solaris Management Console

Course Contents

- Concepts underlying UNIX
- UNIX commands to access the operating system
- Controlling input to and output from commands
- Connecting programs together (IPC)
- The text editor vi
- Create, modify and delete files
- Moving files around
- UNIX filesystem
- Text (and pattern) search using grep
- Commands to manipulate files and directories
- File permissions
- The **Korn** shell command interpreter
- Command recall and history
- Filename generation
- Printing and Printer Management
- User and Group Management
- Manage foreground and background processes
- Shell scripts
- The sed stream editor
- The awk report writer
- Backup and Restore
- The cron command (task scheduler)
- Startup and Shutdown
- Network Overview