



Red Hat LINUX Course Content:35-40hours

Course Outline

Introduction

- UNIX
- GNU
- Linux Origins
- Why Linux
- Red Hat Linux
- Linux GUI Environments

Quick Tour

- Local Logins
- Examining the File System
- Device Files
- Linux Processes
- Command-line Shells
- Running Commands
- Determining Options for Commands
- Shell Variables
- Users
- Changing Your Password
- Getting Online Help - man
- Other Help Utilities
- Virtual Consoles

File and Shell Basics

- Current Working Directory
- Changing Directories
- File Names
- System Directories
- Checking Free Space



- File Manipulation
- Directory Manipulation
- Viewing Files
- Pico - A simple File Editor
- File Globbing
- The Home Directory

Users and Groups

- Users and Groups
- The Linux Security Model
- The root User
- System Users and Groups
- User Information Commands
- Changing your identity

File Access Permissions

- Linux File Security
- User Categories
- File Permission Types
- Examining Permissions
- Examining Directories
- Changing Access Permissions
- Changing Permissions
- Default File Permissions

The Linux File System

- Linux System Directories
- Ext2 File System Details
- Hard Links
- Soft (or Symbolic) Links
- Mounting Removable Media
- Mtools Package/Commands
- Locating Files
- The find Command
- Finding and Processing Files
- Creating an Archive
- Extracting an Archive
- Compression Utilities
- Using gzip
- Compressing Archives

String Processing

- Commands: head, tail, wc
- The grep Command and Regular Expressions
- The sort, diff, cut, uniq, paste and tr Commands

Standard I/O and Pipes

- Standard Input and Output
- Redirecting Input
- Redirecting Standard Output
- Redirecting Standard Error
- Using Pipes to connect Processes

Introduction to Processes

- Linux Processes
- Process States
- Viewing/Monitoring Processes
- Sending Signals to Processes
- Process Scheduling Priority
- Foreground Processes
- Background Processes
- Suspending a Process
- Listing Background and Suspended Jobs
- Resuming Suspended Jobs

The bash Shell

- Bash Introduction
- Bash Heritage
- Shell Variables
- Shell vs. Environment Variables
- Common Variables
- Using which
- Command-Line Expansion
- Using nohup
- History - Command Recall
- Command Return Values
- Compound Commands
- Aliases
- Shell Functions

- Startup Scripts
- Login Shells
- Creating Shell Scripts
- Making Scripts Executable
- Generating Output
- Handling Input
- Conditional Execution Using the if Statement
- Conditional Execution Using the case Statement
- The for, while and until Loops
- Using Positional Parameters

X/GNOME/KDE

- The X Window System
- The X Protocol
- Window Managers
- Sawfish
- GNOME
- KDE
- NextStep
- Switchdesk
- Mouse Configuration
- Copy and Paste
- Xfree86 Startup
- Display Managers
- GUI Terminals and Editors
- GNU Midnight Commander
- Web Browsers
- Utilities and Applications
- X Customization

Printing and Mailing

- Printing in Linux
- Printing Commands
- Printing From Applications
- Printing Utilities
- Email Clients
- POP and IMAP
- Email Filtering

Basic Networking

- Basic Commands (ping, host, telnet, ftp)
- Network Browsers
- The R-commands
- Secure Shell

Using the vi Editor

- Overview of vi
- Starting vi
- Editor Modes
- Cursor Movement
- Saving and Exiting vi
- Cut, Copy and Paste
- Undoing Changes
- Searching For Text
- Using Regular Expressions

Sed, awk and perl

- The sed Command
- Addresses
- Scripting
- The awk Command
- Programs and Rules
- Perl Basics

System Tools

- Terminal Configuration
- Getting System Information
- Scheduling Periodic Processes
- Using cron
- The crontab File Format
- RPM Package Manager
- RPM queries
- GnoRPM
- System Administration Duties

Installation

- The Red Hat Installer
- Red Hat Linux Installation
- Partitioning Hard Drives

- Software RAID
- Network Configuration
- Package Selection
- Validating the Installation
- Post-Install Configuration
- System Configuration

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