

Content of Glance**Red Hat Linux Essentials****Duration: 30 hours****Unit 1 - Linux Ideas and History**

- What is Open Source?
- Linux Origins
- Red Hat Distributions
- The Fedora Project
- Linux Principles

Unit 2 - Linux Usage Basics

- Logging into Red Hat Enterprise Linux
- Starting X from the Console
- Accessing the Command Line from X
- Changing your Password
- The root User
- Elevating your Privileges
- Editing Text Files
- Hands-on lab: Linux Usage Basics

Unit 3 - Running Commands and Getting Help

- Running Commands
- Getting Help
- The whatis Command
- The --help Option
- Reading Usage Summaries
- The man and info Commands
- Documentation
- Hands-on lab: Getting Help with Commands

Unit 4 - Browsing the Filesystem

- Linux File Hierarchy Concepts
- Current Working Directory
- File and Directory Names
- Absolute and Relative Pathnames
- Changing Directories
- Listing Directory Contents
- Copying and Moving Files and Directories
- Creating and Removing Files and Directories

Unit 11 - Finding and Processing Files

- The slocate and find Commands
- Basic find Examples
- find and Logical Operators
- find and Permissions
- find and Numeric Criteria
- find and Access Times
- Executing Commands with find
- The Gnome Search Tool
- Hands-on lab: Finding and Processing Files

Unit 12 - Network Applications

- Firefox and Other Web Browsers
- Evolution and Other E-mail Clients
- Email, Encryption, and Digital Signatures
- The Gaim Messaging System
- Encrypted Communications with ssh and scp
- telnet and the "r" services
- FTP Clients
- Connecting to Windows Disk Shares
- File Transfer with Nautilus
- Network Diagnostic Tools
- Hands-on lab: Network Clients

Essential Topics in Red Hat Enterprise Linux Administration

Unit 13 - Managing Users, Groups, and Permissions

- The Linux Security Model
- Users and Groups
- Permission Types
- Examining Permissions
- Changing Permissions Using Symbolic and Numeric Methods
- Changing Permissions Using Nautilus
- Hands-on lab: File Permissions

- Using Nautilus
- Determining File Content
- Viewing Files
- Hands-on lab: Browsing the Filesystem

Unit 5 - Using the bash Shell

- bash Introduction, Heritage, and Features
- Command Line Shortcuts
- History Tricks
- Command Line Expansion
- Command Editing Tricks
- gnome-terminal
- Hands-on lab: Exploring the Bash Shell

Unit 6 - Standard I/O and Pipes

- Standard Input and Output
- Redirecting Standard Input and Output
- Overwriting vs Appending
- Redirecting Standard Error
- Redirecting Both Standard Output and Error
- Using Pipes To Connect Processes
- Hands-on lab: Standard I/O and Pipes

Unit 7 - Text Processing Tools

- Tools for Extracting Text
- Tools for Analysing Text
- Tools for Manipulating Text
- Special Characters for Matching Text
- Hands-on lab: Text Processing Tools
- Intermediate Tools

Unit 8 - Basic System Configuration

- Configuring Date and Time
- Configuring Printers
- Configuring the Network
- System Logs
- Hands-on lab: Basic System Configuration

Unit 9 - vi and vim

- Introducing vim
- vim basics
- Opening, Modifying, and Saving Files
- Using Command Mode
- Undoing Changes
- Visual Mode
- Splitting the Screen
- Configuring vi and vim
- Learning More
- Hands-on lab: vi and vim

Unit 14 - Advanced Topics in Users, Groups and Permissions

- User and Group ID Numbers
- The /etc/passwd, /etc/shadow, and /etc/group files
- System Users and Groups
- Changing Your Identity
- User Information Commands
- Default Permissions
- Special Permissions
- Hands-on lab: Switching Users and Setting Default Permissions

Unit 15 - The Linux Filesystem In-Depth

- Partitions and Filesystems
- Inodes and Directories
- cp, mv, rm, and inodes
- Symbolic (or Soft) Links and Hard Links
- The Seven Fundamental Filetypes
- Checking Free Space
- Mounting CDs, DVDs, USB Media, and Floppy Disks
- Why Archive Files?
- Creating, Inspecting, and Extracting Files From File Archives
- Why Use File Compression?
- Compression Utilities
- Compressing Archives
- Hands-on lab: The Linux Filesystem

Unit 16 - Investigating and Managing Processes

- What is a Process?
- Process States
- Viewing Processes
- Sending Signals to Processes
- Terminating Processes
- Altering Process Scheduling Priority
- Interactive Process Management Tools
- Running a Process in the Background
- Suspending a Process
- Listing Background and Suspended Jobs
- Compound Commands
- Scheduling a Process To Execute Later
- Scheduling Periodic Processes
- Crontab File Format
- Hands-on lab: Process Controls

Unit 17 - Essential System Administration Tools

- Installation



Unit 10 - Configuring the bash Shell

- Using bash Variables
 - Local and Environment Variables
 - Configuration and Information Variables
 - Variable Expansion
 - Protecting Against Variable Expansion
 - Aliases
 - How bash Expands the Command Line
 - Types of Shells
 - bash Startup and Exit Scripts
 - Using Variables in Shell Scripts
- Hands-on lab: Configuring the Bash Shell

- Managing Services
- Managing Packages
- Securing the System
- Hands-on lab: Installation, Managing Services, and Securing the System

Unit 18 - What Now?

- Some Areas to Explore
- Development
- Red Hat Development Classes
- System Administrator Duties

NIIT



Microsoft
GOLD CERTIFIED
Partner

Corp. Office: #50B, Russian Blvd, Phnom Penh, Cambodia

Tel: (855) 023 88 00 20/21, Fax: (855) 23 88 01 01

Website: www.netisolutions.biz , www.niit.com Email: info@netisolutions.biz