

CompTIA Linux+

Summary: CompTIA's Linux+ is a vendor-neutral certification that validates the knowledge of individuals with a minimum of six to twelve months of practical Linux experience. The CompTIA Linux+ Course from QuickCert confirms an IT professional's proficiency in the everyday management of Linux-based clients and basic management of server systems. Students will learn the knowledge and tools necessary to manage Linux systems from the command line, as well as how to manage user administration, file permissions, software configurations, and Linux-based clients, server systems and security.

The CompTIA Linux+ certification exam and course curriculum breaks down as follows:

Domain % of Examination:

1.0 Planning the Implementation 4% ; 2.0 Installation 12% ; 3.0 Configuration 15% ; 4.0 Administration 18% ; 5.0 System Maintenance 14% ; 6.0 Troubleshooting 18% ; 7.0 Identify, Install, and Maintain System Hardware 19%; TOTAL: 100%

Course Content

GETTING STARTED WITH LINUX

- Selecting an Installation Method
- Configuring Boot Loaders
- Troubleshooting Boot Problems
- Configuring X
- Managing Hardware

USING TEXT-MODE COMMANDS

- Using a Command Shell
- Manipulating Files and Directories
- Using File Permissions
- Setting Environment Variables
- Using Shell Scripts
- Getting Help

MANAGING PROCESSES AND EDITING FILES

- Managing Processes
- Setting Process Permissions
- Running Jobs at Specific Times
- Getting and Setting Kernel Information
- Editing Files with Vi

MANAGING SYSTEM SERVICES

- Starting and Stopping Services
- Setting the Runlevel
- Configuring Log Files
- Using Log Files

MANAGING USERS

- Understanding Multi-user Concepts
- Configuring User Accounts
- Configuring Groups
- Using Common User and Group Strategies
- Improving Account Security
- Controlling System Access

MANAGING DISKS

- Storage Hardware Identification
- Planning Disk Partitioning
- Partition Management and Maintenance
- Partition Control

MANAGING PACKAGES AND SYSTEM BACKUPS

- Understanding Package Concepts
 - Installing and Removing Packages
 - Managing Package Dependencies and Conflicts
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- Backing Up and Restoring a Computer
- Writing to Optical Disc

CONFIGURING BASIC NETWORKING

- Understanding Networks
- Network Addressing
- Basic Network Configuration
- Diagnosing Network Problems

CONFIGURING ADVANCED NETWORKING

- Routing Between Networks
- Firewall Configuration
- Managing Remote Logins
- Configuring Basic Printing

CONFIGURING NETWORK SERVERS I

- Delivering Network Information
- Using E-Mail

CONFIGURING NETWORK SERVERS II

- Delivering Files Over the Network
- Using Windows Remote Access Tools
- Deploying MySQL

SECURING LINUX

- Sources of Security Vulnerability
 - Authenticating Users
 - Using GNU Privacy Guard
 - SELinux
 - Security Auditing
 - Intrusion Detection
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