

CT-LINUX+: CompTIA Linux+ Certification

Course Code: CT-LINUX

Duration: 5 days

Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

OVERVIEW

The new CompTIA Linux+ is for the IT pro who will use Linux to manage everything from cars and smartphones to servers and supercomputers, as a vast number of enterprises use Linux in cloud, cybersecurity, mobile and web administration applications.

CompTIA Linux+ covers common tasks in major distributions of Linux, including the Linux command line, basic maintenance, installing and configuring workstations, and networking.

SKILLS COVERED

In this course, you will administer Linux.

You will:

- Identify basic Linux concepts and perform basic Linux tasks.
- Manage user and group accounts.
- Manage partitions and the Linux filesystem.
- Manage various files in Linux.
- Work with Linux permissions and ownership.
- Print files.
- Manage packages.
- Manage kernel services.
- Work with the Bash shell and shell scripts.
- Manage jobs and processes.
- Manage system services.
- Configure network services.
- Configure basic Internet services.
- Implement measures to secure a Linux system.

- Manage hardware associated with Linux systems.
- Troubleshoot Linux system issues.
- Install the Linux operating system.
- Configure the GUI.

WHO SHOULD ATTEND?

This [CompTIA certification](#) course is intended for entry-level computer support professionals with basic knowledge of computer hardware, software, and operating systems, who wish to increase their knowledge and understanding of Linux concepts and skills to prepare for a career in Linux support or administration, or to prepare for the CompTIA® Linux+® certification examination. A typical student in this course should have at least 6 to 12 months of Linux experience.

PRE-REQUISITES

To ensure your success, CompTIA® A+®: A Comprehensive Approach (Exams 220-801 and 220-802) is helpful but not required.

Note that the prerequisites for this course might differ significantly from the prerequisites for the CompTIA certification exams.

MODULES

Module 1: Performing Basic Linux Tasks

- Identify the History and Development of Linux
- Enter Shell Commands
- Get Help Using Linux
- Start and Stop Linux

Module 2: Managing User and Group Accounts

- Create User and Group Accounts
- Configure User Profiles
- Administer User and Group Accounts

Module 3: Managing Partitions and the Linux Filesystem

- Create Partitions
- Navigate Through the Linux Filesystem
- Manage the Filesystem
- Maintain the Filesystem

Module 4: Managing Files in Linux

- Create and Edit Text Files
- Locate Files
- Search Text Using Regular Expressions
- Apply Filters to Text Streams
- Link Files
- Back Up and Restore Files
- Manage Databases Using MariaDB

Module 5: Managing Linux Permissions and Ownership

- Modify File and Directory Permissions
- Modify Default Permissions
- Modify File and Directory Ownership
- Set Special Permissions and Attributes

Module 6: Printing Files

- Configure a Local Printer
- Print Files
- Configure Remote Printing

Module 7: Managing Packages

- Manage Packages Using RPM
- Verify Packages
- Upgrade Packages
- Configure Repositories
- Manage Packages Using YUM
- Advanced Package and Application Management

Module 8: Managing Kernel Services

- Explore the Linux Kernel

- Customize Kernel Modules
- Create an initrd Image
- Manage Device Drivers and Hardware Devices
- Monitor Processes and Resources

Module 9: Working with the Bash Shell and Shell Scripts

- Perform Basic Bash Shell Operations
- Write a Bash Shell Script
- Customize the Bash Shell
- Redirect Standard Input and Output
- Use Control Statements in Shell Scripts

Module 10: Managing Jobs and Processes

- Manage Jobs and Background Processes
- Manage Processes Using the Process Table
- Delay and Detach Jobs
- Schedule Jobs
- Maintain the System Time

Module 11: Managing System Services

- Configure System Services
- Monitor System Logs
- Configure Security-Enhanced Linux (SELinux)

Module 12: Configuring Network Services

- Connect to a Network
- Configure Routes
- Configure Client Network Services
- Manage Remote Network Systems

Module 13: Configuring Basic Internet Services

- Configure Email Services
- Control Internet Services

Module 14: Securing Linux

- Implement Basic System Security
- Secure User Accounts

Module 15: Managing Hardware

- Identify Common Hardware Components and Resources
- Configure Removable Hardware
- Configure Disk Quotas

Module 16: Troubleshooting Linux Systems

- Troubleshoot System-Based Issues
- Troubleshoot Hardware Issues
- Troubleshoot Network Connection and Security Issues

Module 17: Installing Linux

- Prepare for Installation
- The Linux Boot Process
- Configure GRUB
- Install the Operating System

Module 18: Configuring the GUI

- Implement X
- Customize the Display Manager
- Enable Accessibility Settings in Linux

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