

# CompTIA Linux+

## Introduction

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 the cloud, cybersecurity, mobile, and web administration applications.

In the new CompTIA Linux+, candidates are only required to pass one exam for certification. However, the new certification is no longer eligible for the LPI 2-for-1 offer.

- CompTIA Linux+ is the only job-focused Linux certification covering the latest foundational skills demanded by hiring managers.
- Unlike other certifications, the new exam includes performance-based and multiple-choice questions to identify the employees who can do the job.
- The exam covers tasks associated with all major distributions of Linux, setting the foundation for advanced vendor/distro-specific knowledge.

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

## Course Highlights

This course teaches you about core aspects such as;

- System architecture
- Linux installation & package management
- GNU & Unix commands
- Filesystems, and file structures
- Shell scripting and data management
- User interfaces and desktops
- Essential system services
- Networking fundamentals

## Course Outline

### MODULE 1: Hardware and System Configuration

- Explain Linux boot process concepts.
- Given a scenario, install, configure, and monitor kernel modules.
- Given a scenario, configure and verify network connection parameters.
- Given a scenario, manage storage in a Linux environment.
- Compare and contrast cloud and virtualization concepts and technologies.
- Given a scenario, configure localization options.

### MODULE 2: Systems Operation and Maintenance

- Given a scenario, conduct software installations, configurations, updates, and removals.
- Given a scenario, manage users and groups.
- Given a scenario, create, modify, and redirect files.
- Given a scenario, manage services.
- Summarize and explain server roles.
- Given a scenario, automate and schedule jobs.

- Compare and contrast Linux graphical user interfaces.
- Explain the use and operation of Linux devices

### **MODULE 3: Security**

- Given a scenario, apply or acquire the appropriate user and/or group permissions and ownership.
- Given a scenario, configure and implement appropriate access and authentication methods.
- Summarize security best practices in a Linux environment.
- Given a scenario, implement logging services.
- Given a scenario, implement and configure Linux firewalls.
- Given a scenario, backup, restore, and compress files.

### **MODULE 4: Linux Troubleshooting and Diagnostics**

- Given a scenario, analyze system properties and remediate accordingly.
- Given a scenario, analyze system processes in order to optimize performance.
- Given a scenario, analyze and troubleshoot user issues.
- Given a scenario, analyze and troubleshoot application and hardware issues.

### **MODULE 5: Automation and Scripting**

- Given a scenario, deploy and execute basic BASH scripts.
- Given a scenario, carry out version control using Git.
- Summarize orchestration processes and concepts.

## **Prerequisites**

CompTIA A+, CompTIA Network+ and 12 months of Linux admin experience

## **Target Audience**

This certification is intended for;

- Database Administrators who desire to master the Linux operating system
- Network Administrators
- Technical Support Specialists
- Web Administrators
- Systems Administrators

## **Duration**

16 hours training course