

# COMPTIA LINUX+ Powered by LPI (LX0-103 and LX0-104)

## Our Learning Exclusive

- Custom exam prep software and materials
- Exam delivery in classroom with 95% success
- Course specific thinQtank® Learning publications to promote a fun exciting learning
- Extended hours of training including immersive hands-on exercises
- WE DO NOT "TEACH THE TEST" We always deliver valuable hands-on experience
- Receive all reading material and study guides when you register
- All courses taught by expert Linux professionals

## Course Duration

- Five days of instructor-led training
- 40% lecture, 60% practical labs

## Prerequisites

- Foundation knowledge of the Linux operating system at the level of Linux Introduction and Linux Administration and Support
- Experience with Linux for one year or more

## Target Audience

- Linux Administrators, engineers and architects
- Managers and supervisors who must oversee network-related activities involving Linux platforms
- Individuals interested in pursuing the CompTIA Linux+ certification

## Exam Information

- LX0-103 – Linux+ Exam 1
- LX0-104 – Linux+ Exam 2
- Must pass LX0-103 before taking LX0-104

## Delivery Methods

- Instructor-Led Training
- Immersive Live-Online Training
- On-Site and Custom Delivery

### Exclusive Learning Package

- Virtual Machine Build packed with tools and labs
- Linux+ Video Course
- 200+ videos contained in this product provide students more than 17 hours of instruction
- Print and Digital Courseware

## Course Overview

thinQtank® Learning is offering an industry unique five-day training camp in which students can receive the CompTIA Linux+ certification. As with all of our CompTIA Training Experiences, exams are delivered in the classroom.

This Linux+ training course builds on existing foundation level Linux knowledge and provides you with next-level Linux administration knowledge to further your installation, troubleshooting, and maintenance skills.

With complete coverage of 100% of the objectives on the exams, this course provides clear, concise information on all aspects of Linux administration, with a focus on the latest version of the exams. You'll gain the insight of examples drawn from real-world scenarios, with detailed guidance and authoritative coverage of key topics, including GNU and Unix commands, system operation, system administration, system services, security, and more, from a practical perspective that easily translates into on-the-job know-how. You'll also get access to helpful study tools, including bonus practice exams, electronic flashcards, and a searchable glossary of key terms that are important to know for exam day.

## Course Objectives

- Identify basic Linux concepts and perform basic Linux tasks
- Manage user and group accounts
- Manage partitions and the Linux file system
- Manage various files in Linux
- Work with Linux permissions and ownership
- Print files
- Manage packages
- Manage kernel services
- Work with the Bash shell
- Manage jobs and processes
- Manage system services
- Configure Linux services to provide users with network connectivity
- 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
- Install Linux and manage user and group accounts
- Work with Linux permissions and ownership
- Manage kernel, system, and network services
- Work with the Bash shell and shell scripts
- Troubleshoot and secure the Linux operating system

## COMPTIA LINUX+ Powered by LPI (LX0-103 and LX0-104)

## Course Modules

- 1** Performing Basic Linux Tasks
  - Topic A: Identify the History and Development of Linux
  - Topic B: Enter Shell Commands
  - Topic C: Get Help Using Linux
  - Topic D: Start and Stop Linux
- 2** Managing User and Group Accounts
  - Topic A: Create User and Group Accounts
  - Topic B: Configure User Profiles
  - Topic C: Administer User and Group Accounts
- 3** Managing Partitions and the Linux Filesystem
  - Topic A: Create Partitions
  - Topic B: Navigate Through the Linux Filesystem
  - Topic C: Manage the Filesystem
  - Topic D: Maintain the Filesystem
- 4** Managing Files in Linux
  - Topic A: Create and Edit Text Files
  - Topic B: Locate Files
  - Topic C: Search Text Using Regular Expressions
  - Topic D: Apply Filters to Text Streams
  - Topic E: Link Files
  - Topic F: Back Up and Restore Files
  - Topic G: Manage Databases Using MariaDB
- 5** Managing Linux Permissions and Ownership
  - Topic A: Modify File and Directory Permissions
  - Topic B: Modify Default Permissions
  - Topic C: Modify File and Directory Ownership
  - Topic D: Set Special Permissions and Attributes
- 6** Printing Files
  - Topic A: Configure a Local Printer
  - Topic B: Print Files
  - Topic C: Configure Remote Printing
- 7** Managing Packages
  - Topic A: Manage Packages Using RPM
  - Topic B: Verify Packages
  - Topic C: Upgrade Packages
  - Topic D: Configure Repositories
  - Topic E: Manage Packages Using YUM
  - Topic F: Advanced Package and Application Management
- 8** Managing Kernel Services
  - Topic A: Explore the Linux Kernel
  - Topic B: Customize Kernel Modules
  - Topic C: Create an initrd Image
  - Topic D: Manage Device Drivers and Hardware Devices
  - Topic E: Monitor Processes and Resources
- 9** Working with the Bash Shell and Shell Scripts
  - Topic A: Perform Basic Bash Shell Operations
  - Topic B: Write a Bash Shell Script
  - Topic C: Customize the Bash Shell
  - Topic D: Redirect Standard Input and Output
  - Topic E: Use Control Statements in Shell Scripts
- 10** Managing Jobs and Processes
  - Topic A: Manage Jobs and Background Processes
  - Topic B: Manage Processes Using the Process Table
  - Topic C: Delay and Detach Jobs
  - Topic D: Schedule Jobs
  - Topic E: Maintain the System Time
- 11** Managing System Services
  - Topic A: Configure System Services
  - Topic B: Monitor System Logs
  - Topic C: Configure Security-Enhanced Linux (SELinux)
- 12** Configuring Network Services
  - Topic A: Connect to a Network
  - Topic B: Configure Routes
  - Topic C: Configure Client Network Services
  - Topic D: Manage Remote Network Systems
- 13** Configuring Basic Internet Services
  - Topic A: Configure Email Services
  - Topic B: Control Internet Services
- 14** Securing Linux
  - Topic A: Implement Basic System Security
  - Topic B: Secure User Accounts
- 15** Managing Hardware
  - Topic A: Identify Common Hardware Components and Resources
  - Topic B: Configure Removable Hardware
  - Topic C: Configure Disk Quotas
- 16** Troubleshooting Linux Systems
  - Topic A: Troubleshoot System-Based Issues
  - Topic B: Troubleshoot Hardware Issues
  - Topic C: Tshoot Network Connection and Security Issues
- 17** Installing Linux
  - Topic A: Prepare for Installation
  - Topic B: The Linux Boot Process
  - Topic C: Configure GRUB
  - Topic D: Install the Operating System
- 18** Configuring the GUI
  - Topic A: Implement X
  - Topic B: Customize the Display Manager
  - Topic C: Enable Accessibility Settings in Linux

# COMPTIA LINUX+ Powered by LPI (LX0-103 and LX0-104)



**thinQtank® Global, Inc. dba thinQtank® Learning** P.O. Box 803215, Valencia, CA 91380 USA  
Tel 855-TO-THINQ Fax 208-979-0668 [www.thinqtanklearning.com](http://www.thinqtanklearning.com)

© 2019 thinQtank® Global, Inc. All rights reserved. The product or learning materials are protected by U.S. and intellectual property laws. thinQtank Global, thinQtank Learning and the Q-Man logo are registered trademarks of thinQtank Global, Inc. in the United States and/or other jurisdictions. All other marks and names mentioned herein may be trademarks of their respective companies.

thinQtank Global, Inc. warrants that it will perform these training services in a reasonable manner using generally accepted industry standards and practices. THE EXPRESS WARRANTY SET FORTH IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE SERVICES AND DELIVERABLES PROVIDED BY THINQTANK GLOBAL, INC., OR AS TO THE RESULTS WHICH MAY BE OBTAINED THEREFROM. THINQTANK GLOBAL, INC. WILL NOT BE LIABLE FOR ANY THIRD-PARTY SERVICES OR PRODUCTS IDENTIFIED OR REFERRED TO CUSTOMER. All materials provided in this training are copyrighted by thinQtank Global, Inc. ("Learning Materials"). thinQtank Global, Inc. grants the customer of this learning a license to use Learning Materials strictly for the purpose of facilitating such company's internal understanding, utilization and operation of the technology covered herein. Except as set forth expressly in the sentence above, there is no transfer of any intellectual property rights or any other license granted under the terms of this training.