301-258-8200 | Sales@PhoenixTS.com | www.PhoenixTS.com

View Full Course Details including Latest Schedule Online

COMPTIA

# CompTIA Linux+

Phoenix TS is proud to be a CompTIA Authorized Platinum Partner; which is the highest level of partnership awarded by CompTIA!

**BONUS! Cyber Phoenix Subscription Included:** All Phoenix TS students receive complimentary ninety (90) day access to the Cyber Phoenix learning platform, which hosts hundreds of expert asynchronous training courses in Cybersecurity, IT, Soft Skills, and Management and more!

## Course Overview

Our 5-day instructor-led Linux+ training and certification boot camp in Washington, DC Metro, Tysons Corner, VA, Columbia, MD or Live Online will help anyone looking to pursue or further their career working with Linux-based technologies. Businesses are quickly noticing that Linux provides an economic and practical solution to fulfilling their business needs; the system continues to make exponential growth the mainstream IT infrastructure market. Many large companies such as IBM, Dell, HP, Xerox and Lenovo either recommend or require the Linux+ certification.

## Schedule

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| DATE | LOCATION | |
|---|---|---|
| 5/06/24 - 5/10/24 (5 days) | Columbia, MD Open | Contact Us |
| 5/06/24 - 5/10/24 (5 days) | Live Online Open | Contact Us |
| 9/09/24 - 9/13/24 (5 days) | Live Online Open | Contact Us |
| 9/09/24 - 9/13/24 (5 days) | Columbia, MD Open | Contact Us |
| 12/09/24 - 12/13/24 (5 days) | Live Online Open | Contact Us |
| 12/09/24 - 12/13/24 (5 days) | Columbia, MD Open | Contact Us |
| 1/27/25 - 1/31/25 (5 days) | Columbia, MD Open | Contact Us |
| 1/27/25 - 1/31/25 (5 days) | Live Online Open | Contact Us |

## Program Level

Intermediate

## Training Delivery Methods

Group Live

## Duration

5 Days / 32 hours Training

## CPE credits

26 NASBA CPE Credits

# Field of Study

Information Technology

# Advanced Prep

N/A

# Course Registration

Candidates can choose to register for the course by via any of the below methods:

- Email: Sales@phoenixts.com
- Phone: 301-582-8200
- Website: www.phoenixts.com

Upon registration completion candidates are sent an automated course registration email that includes attachments with specific information on the class and location as well as pre-course study and test preparation material approved by the course vendor. The text of the email contains a registration confirmation as well as the location, date, time and contact person of the class.

Online enrolment closes three days before course start date.

On the first day of class, candidates are provided with instructions to register with the exam provider before the exam date.

# Complaint Resolution Policy

To view our complete Complaint Resolution Policy policy please click here: Complaint Resolution Policy

# Refunds and Cancellations

To view our complete Refund and Cancellation policy please click here: Refund and Cancellation Policy

# Course Outline

Preparing Your Environment

- Setting Up a Learning Space
- Exploring Linux Distributions
- Locating a Terminal

## Sifting Through Services

- What is a Linux Server?
- Serving the Basics
- Serving Local Networks
- Implementing Security
- Improving Performance

## Managing Files, Directories, and Text

- Handling Files and Directories
- Linking Files and Directories
- Reading Files
- Finding Information

## Searching and Analyzing Text

- Processing Text Files
- Redirecting Input and Output
- Editing Text Files

## Explaining the Boot Process

- The Linux Boot Process
- The Firmware Startup
- Linux Bootloaders
- System Recovery

## Maintaining System Startup and Services

- Looking at init
- Managing systemd Systems
- Managing SysV init Systems
- Digging Deeper into systemd

## Configuring Network Connections

- Configuring Network Features

- Basic Network Troubleshooting
- Advanced Network Troubleshooting

## Comparing GUIs

- Focusing on the GUI
- Serving Up the GUI
- Using Remote Desktops
- Forwarding

## Adjusting Localization Options

- Understanding Localization
- Setting Your Locale
- Looking at Time

## Administering Users and Groups

- Managing User Accounts
- Managing Groups
- Setting Up the Environment
- Querying Users
- Managing Disk Space Usage

## Handling Storage

- Storage Basics
- Partitioning Tools
- Understanding Filesystems
- Formatting Filesystems
- Mounting Filesystems
- Managing Filesystems
- Storage Alternatives

## Protecting Files

- Understanding Backup Types
- Looking at Compression Methods
- Comparing Archive and Restore Utilities
- Securing Offsite/Off-System Backups
- Checking Backup Integrity

## Governing Software

- Working with Source Code
- Packaging Applications

## Tending Kernel Modules

- Exploring Kernel Modules
- Installing Kernel Modules
- Removing Kernel Modules

## Applying Ownership and Permissions

- Looking at File and Directory Permissions
- Access Control Lists
- Context-Based Permissions
- Understanding Linux User Types
- Restricting Users

## Looking at Access and Authentication Methods

- Getting to Know PAM
- Exploring PKI Concepts
- Using SSH
- Using VPN as a Client

## Implementing Logging Services

- Understanding the Importance of Logging
- Basic Logging Using rsyslog
- Journaling with systemd-journald

## Overseeing Linux Firewalls

- Providing Access Control
- Looking at Firewall Technologies
- Forwarding IP Packets
- Dynamically Setting Rules

## Embracing Best Security Practices

- User Security
- System Security
- Network Security

## Analyzing System Properties and Remediation

- Troubleshooting the Network
- Troubleshooting Storage Issues
- Troubleshooting the CPU
- Troubleshooting Memory
- Surviving a Lost root Password

## Optimizing Performance

- Looking at Processes
- Monitoring Processes in Real Time
- Managing Processes

## Investigating User Issues

- Troubleshooting Access
- Examining File Obstacles
- Exploring Environment and Shell Issues

## Dealing with Linux Devices

- Communicating with Linux Devices
- Working with Devices
- Using Hot Pluggable Devices

## Troubleshooting Application and Hardware Issues

- Dealing with Storage Problems
- Uncovering Application Permission Issues
- Analyzing Application Dependencies
- Looking at SELinux Context Violations
- Exploring Firewall Blockages
- Troubleshooting Additional Hardware Issues

## Deploying Bash Scripts

- The Basics of Shell Scripting
- Advanced Shell Scripting
- Writing Script Programs

## Automating Jobs

- Running Scripts in Background Mode

- Running Scripts Without a Console
- Sending Signals
- Job Control
- Running Like Clockwork

### Controlling Versions with Git

- Understanding Version Control
- Setting Up Your Git Environment
- Committing with Git
- Merging Versions

### Understanding Cloud and Virtualization Concepts

- Considering Cloud Services
- Understanding Virtualization
- Exploring Containers

### Inspecting Cloud and Virtualization Services

- Focusing on VM Tools
- Understanding Bootstrapping
- Exploring Storage Issues
- Considering Network Configurations

### Orchestrating the Environment

- Understanding Orchestration Concepts
- Provisioning the Data Center
- Looking at Container Orchestration Engines

## CompTIA Linux+ Exam XK0-004

### Exam Details:

- Number of Questions: Maximum of 90
- Passing Score: 720 on scale of 100-900
- Duration: 90 minutes
- Format: multiple choice and performance-based
- Delivery: Pearson VUE

| Objectives | % of Exam |
|---|---|

| | |
|---|---|
| Hardware and System Configuration | 21% |
| Systems Operations and Maintenance | 26% |
| Security | 19% |
| Linux Troubleshooting and Diagnostics | 20% |
| Automation and Scripting | 14% |

## Finance your Linux+ Training!

We have partnered with Meritize to provide our students with financing options to fund your education. Check your loan options in minutes without impacting your credit score. Click here to apply


## FAQs

### Who should take this course?

Web Administrators
Linux Database Administrators
Networking Students

Junior Linux Administrators
Junior Network Administrators
Systems Administrators

## What is the recommended experience for this course?

Students should have at least six months of practical work experience with Linux systems, CompTIA A+ and Network+ certifications or hold equivalent experience and knowledge.

## What companies hire CompTIA Linux+ professionals?

Examples include Dell, General Dynamics, Booz Allen Hamilton, Aetna, the U.S. Navy, and the Department of Defense.

## How much does the Linux+ XK0-004 exam cost?

As of March 2021 the exam costs $338 if purchased separate from a course.

## Does the CompTIA Linux+ certification require renewal?

Yes, Linux+ does require certification renewal every three years. To renew, certification holders must 50 continuing education units (CEUs) through completing activities as specified by the CompTIA Continuing Education program.

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**Phoenix TS is registered with the National Association of State Boards of Accountancy (NASBA) as a sponsor of continuing professional education on the National Registry of CPE Sponsors. State boards of accountancy have final authority on the acceptance of individual courses for CPE credit. Complaints re-garding registered sponsors may be submitted to the National Registry of CPE Sponsors through its web site: www.nasbaregistry.org**

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Starting at **$2,395**

**ATTENTION**

For GSA pricing or Contractor quotes call 301-258-8200 – Option 2.

GSA

## Price Match Guarantee

We'll match any competitor's price quote. Call us at 240-667-7757.

## Included in this **CompTIA Linux+**

- 5 days instructor-led training
- CompTIA Linux+ training book
- Linux+ Certification Exam voucher with second chance voucher included
- Certificate of completion for up to 40 CEUs/CPEs to be used toward renewing relevant certifications

- Linux+ Certification Training course retake guarantee
- Notepad, pen and highlighter
- Variety of bagels, fruits, doughnuts and cereal available at the start of class*
- Tea, coffee and soda available throughout the day*
- Freshly baked cookies every afternoon*