



Linux+ (XK0-005) Course Introduction

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About the certification

- **CompTIA Linux+** validates the skills administrators need to secure the enterprise, power the cloud and keep systems running.
- The new certification ensures that IT professionals, software developers, cybersecurity engineers and penetration testers have these necessary skills to support today's tech systems.

Course Prerequisites

To fully benefit from this course, you should have the following knowledge and skills:

- Although there are no hard prerequisites, **CompTIA Linux+** is an intermediate-level IT certification and as such, CompTIA recommends 12 months of hands-on experience working with Linux servers in a junior Linux support engineer or junior cloud/DevOps support engineer job role.
- **CompTIA A+, CompTIA Network+, and CompTIA Server+** or similar certifications and/or knowledge are also recommended.

Jobs that use CompTIA Linux+

- Linux Administrator
- Junior Cloud Engineer
- Junior DevOps Support Engineer
- Technical Support Specialist
- Systems Administrator
- Network Administrator
- Web Administrator/ Developer
- Cybersecurity Engineer
- Linux Engineer

Course Domains

Domain 1: System Management **(32%)**

Domain 2: Security **(21%)**

Domain 3: Scripting, Containers, and Automation **(19%)**

Domain 4: Troubleshooting **(28%)**

Topics Covered

1. Introducing Linux
2. Administering Users and Groups
3. Configuring Permissions
4. Implementing File Management
5. Authoring Text Files
6. Managing Software
7. Administering Storage
8. Managing Devices, Processes, Memory, and the Kernel

Topics Covered (cont.)

9. Managing Services
10. Configuring Network Settings
11. Configuring Network Security
12. Managing Linux Security
13. Implementing Simple Scripts
14. Using Infrastructure as Code
15. Managing Containers in Linux
16. Installing Linux

Labs

1. Exploring the Lab Environment
2. Basic Linux Interaction
3. Manage User Accounts
4. Manage Group Accounts
5. Configure and Troubleshoot Privilege Escalation
6. Configure Standard Permissions
7. Configure Special Permissions
8. Configure ACLs

Note: There is **no Labs** in the Official Exam, Labs are for **demonstration only!**

Labs (cont.)

9. Troubleshoot Permissions
10. Manage File Links
11. Use File Management Commands
12. Search for Files
13. Edit Text Files
14. Backup, Restore, and Compress Files
15. Manage RPM Packages
16. Manage DEB Packages

Labs (cont.)

17. Compile a Program
18. Download Files From a Web Server
19. Deploy Storage and LVM
20. Manage Processes
21. Manage Services
22. Deploy Services
23. Configure Network Settings
24. Configure Remote Administration

Labs (cont.)

- 25. Troubleshoot Network Configurations
- 26. Configure a Firewall
- 27. Intercept Network Traffic
- 28. Harden a Linux System
- 29. Verify File Integrity By Using Hashes
- 30. Configure SELinux
- 31. Manage Scripts
- 32. Configure a System with Ansible

Labs (cont.)

33. Manage Version Control with Git

34. Deploy Docker Containers

35. Manage GRUB2

36. Deploy a Linux System

FAQs

- Should I have **Network Fundamentals** before taking this course ?
 - Preferred, Basics topics from Network+ or and other equivalent course.
- Do I need a powerful computer to implement the course Labs ?
 - **Yes**, If you will implement course labs in your computer using Virtualization.
 - For me as an Instructor I will show you how to implement labs using **CompTIA Labs** hosted in their cloud.
[CompTIA CertMaster Labs for Linux+ \(XK0-005\) Individual License](#) - (paid subscription)

Resources for the recorded course

- We will provide you with the following course materials
 - ✓ PDF slides for each topic
 - ✓ HD recorded videos in .mp4 format ready for watching & Download

- Register here NOW

<https://netriders.academy/courses/linux/>