CompTIA
Linux+

What is it?

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.

Why is it different?

- 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.

About the exam

CompTIA Linux+ is the right step for IT professionals utilizing Linux-based systems, whether they are managing infrastructure, cloud workflows, or ensuring the cybersecurity of their organization. Successful candidates will have the skills to:

- Manage hardware and configure systems, including understanding of Linux boot process concepts, kernel modules, network connection parameters, managing storage, cloud and virtualization technologies, and localization options – all within in a Linux environment.
- Operate and maintain systems, including software operations, managing users and groups, working with files, and managing services. Additionally, candidates will be able to explain server roles, automate and schedule jobs, use and operate Linux devices, and compare and contrast Linux graphical user interfaces.
- Apply security topics such as user/group permissions and ownership, access and authentication methods, best practices, logging services, Linux firewalls, and file backup, restoration, and compression.
- Troubleshoot and diagnose Linux issues, including system properties, user issues, application, and hardware issues.
- Demonstrate automation and scripting skills, including basic BASH scripts, version control using GIT, and orchestration processes and concepts.

Exam #
XK0-004

Release Date
April 2019

Languages
English, Japanese, German, Portuguese and Spanish

CE Required?
Yes

What's in this version?

The new CompTIA Linux+ exam has been updated to align with the skills needed to support today's IT infrastructure. CompTIA Linux+ still validates the competencies required of a system administrator supporting Linux systems, but the new CompTIA Linux+ exam has been thoroughly revised with an increased focus on the following most relevant topics: security, kernel modules, storage & visualization, device management at an enterprise level, git & automation, networking & firewalls, server side & command line, server (vs. client-based) coverage, troubleshooting and SELinux.
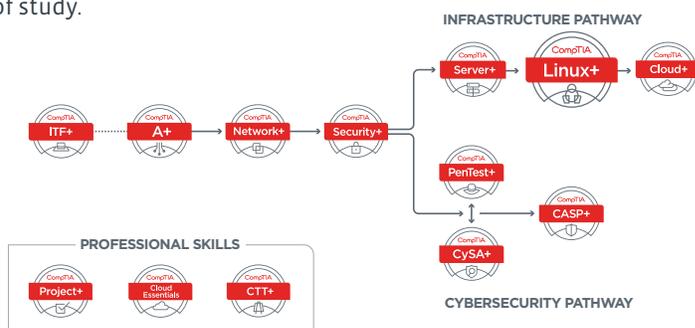
The new certification can be earned by passing a single exam developed in-house by CompTIA using our best-in-class ISO accredited process.

How does Linux+ Compare to Alternatives?

	Linux+	LPIC-1 from LPI	Red Hat Certified Systems Administrator (RHCSA)
Certification	Linux+	LPIC-1 from LPI	Red Hat Certified Systems Administrator (RHCSA)
Performance-based Questions	Yes, as well as multiple choice (single and multiple response) and drag and drop. Many of the questions are scenario-based.	No	Only performance-based questions
Exam Length	1 exam, 90 min	2 exams	10-15 hands-on assignments; 2 ½ hours
Experience Level	9-12 months of Linux experience, with 18 months of prior general IT experience	Early career	High-level Red Hat sys admin experience. Very hard to pass without significant hands-on experience and is recommended for advanced Linux professionals.
Exam Focus	Focuses on the latest technology and trends for IT professionals in an enterprise environment. Covers all major distributions of Linux. Recognized in job ads	Does not focus on working in an enterprise environment, therefore not all items are relevant or up-to-date for IT professionals	Covers only Red Hat systems. As a 100% performance-based exam, it is difficult to study for.
Pre-requisites	Recommended CompTIA A+, CompTIA Network+ and 12 months of Linux admin experience		Recommended Red Hat sys admin experience. Though not a pre-requisite, Linux+ makes an excellent "ramp-up" to this certification.

CompTIA Certification Pathway

CompTIA certifications align with the skillsets needed to support and manage IT infrastructure. Enter where appropriate for you. Consider your experience and existing certifications or course of study.

Top Linux+ Job Titles

- Linux Administrator
- Network Administrator
- Technical Support Specialist
- Systems Administrator
- Linux Database Administrator
- Web Administrator

Technical Areas Covered in the Certification

Hardware & System Configuration
21%

- Explain Linux boot process concepts

- Install, configure, and monitor kernel modules

- Configure and verify network connection parameters

- Manage storage in a Linux environment

- Compare and contrast cloud and virtualization concepts and technologies

- Configure localization options

System Operation & Maintenance
26%

- Conduct software installations, configurations, updates, and removals

- Manage users and groups

- Create, modify, and redirect files

- Manage services

- Summarize and explain server roles

- Automate and schedule jobs

- Explain the use and operation of Linux devices

- Compare and contrast Linux graphical user interfaces

Security
19%

- Use appropriate documentation and diagrams to manage the network

- Compare and contrast business continuity and disaster recovery concepts

- Explain common scanning, monitoring and patching processes and summarize their expected outputs

- Given a scenario, use remote access methods

- Identify policies and best practices

Linux Troubleshooting & Diagnostics
20%

- Analyze system properties and remediate accordingly

- Analyze system processes in order to optimize performance

- Analyze and troubleshoot user issues

- Analyze and troubleshoot application and hardware issues

Automation & Scripting
22%

- Deploy and execute basic BASH scripts

- Carry out version control using Git

- Summarize orchestration processes and concepts

Organizations that use Linux+

- Amazon
- American Airlines
- Dell
- GEICO
- U.S. Department of Defense
- U.S. Navy

Research and Statistics

Linux+ maps to the framework developed as part of the National Initiative for Cybersecurity Education (NICE), supporting multiple KSAs within the Operating System competency.

"It all boils down to certification being an internationally recognized credential. If you can put that on your resume, you'll have a competitive advantage."

Mark Milton
Director of People Services, Goodwill Industries

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Whether you are just starting to prepare and need comprehensive training with CertMaster Learn, need a final review with CertMaster Practice, or need to renew your certification upon expiration with CertMaster CE, CertMaster's online training tools have you covered.

✱ What is a Performance Certification?

CompTIA performance certifications validate the skills associated with a particular job or responsibility. They include simulations that require the test taker to demonstrate multi-step knowledge to complete a task. CompTIA has a higher ratio of these types of questions than any other IT certifying body.

CompTIA.