CompTIA Linux+ Training

Duration: **5 Day**

BILGINC IT Academy
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Overview

CompTIA Linux+ validates the fundamental skills required of Linux system administrators to**secure the enterprise**, **manage the cloud**, and **maintain system reliability**.

It is the **only job-focused Linux certification** covering the latest foundational skills required by modern IT professionals.
Unlike other certifications, the exam combines**performance-based tasks** and **multiple-choice questions**, ensuring that certified professionals can actually perform in real-world environments.

From basic system management to scripting, automation, and troubleshooting, Linux+ lays the foundation for more advanced vendor-specific Linux certifications.

Prerequisites

Participants should have:

- **CompTIA A+** and **Network+** level knowledge (certification not mandatory but recommended).

Who Should Attend

Ideal for:

- Linux Administrators
- Junior Cloud Engineers
- Junior DevOps Support Engineers
- Technical Support Specialists
- Systems Administrators
- Network Administrators
- Web Administrators / Developers
- Cybersecurity Engineers
- Linux Engineers

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What You Will Learn

By the end of this course, learners will be able to:

Domain	Objective
System Management	Configure and manage software, storage, and services
Security	Apply permissions, authentication, firewalls, and file security best practices
Scripting & Automation	Create shell scripts, use Git for version control, and automate tasks
Troubleshooting	Diagnose and resolve system, application, and hardware issues

Outline

Introduction and Installation

- Preparing for Installation
- Installing Linux and Performing Basic Tasks
- Linux Design Philosophy and CLI Usage

Users, Groups, and Permissions

- Creating, modifying, deleting users and groups
- Superuser privileges and account profiles
- Managing file ownerships and special permissions

Storage and File Systems

- Managing partitions and logical volumes
- Mounting and maintaining file systems
- Troubleshooting storage and quotas

Files and Directories

- Creating and editing text files
- Searching and filtering data
- Manipulating file output and structures

Kernel and Boot Process

- Understanding the Linux Kernel and Modules
- Installing and configuring kernel modules

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- The Linux Boot Process and GRUB 2 configuration

System Components and Services

- Localization, GUIs, and process management
- Managing services (systemd)
- Troubleshooting CPU, memory, and processes

Devices and Hardware

- Configuring and monitoring devices
- Hardware troubleshooting

Hands-On Labs

Participants engage in scenario-based labs covering:

- Linux installation and configuration
- User and permission management
- Shell scripting and automation
- Container management
- System and application troubleshooting