



## LINUX TRAINING

# Linux Certified

*Master Linux commands, system administration, and networking. Become a certified Linux professional.*

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### DURATION

**2 hours**

### LEVEL

**Intermediate**

### FORMAT

**Instructor-Led**

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- Globally Recognized Certification
  - Expert-Led Hands-On Training
  - Flexible Scheduling

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | [www.computer-pride.co.ke](http://www.computer-pride.co.ke)

## COURSE OVERVIEW

The "Linux Certified" course at Computer Pride is meticulously designed for IT professionals and aspiring system administrators looking to solidify their expertise in the Linux operating system. This intermediate-level program dives deep into the core concepts and practical skills essential for managing Linux environments effectively. Participants will gain a comprehensive understanding of Linux architecture, master command-line utilities, manage users and permissions, and navigate the intricacies of file systems, process control, and basic networking configurations. By focusing on hands-on application, this course ensures you're not just learning theory, but actively building the proficiency required in real-world scenarios. This certification focuses on empowering you with the practical knowledge to efficiently deploy, maintain, and troubleshoot Linux servers and workstations. You'll learn critical skills such as package management, understanding service control, monitoring system resources, and fundamental shell scripting for automation. Mastering these core technologies is paramount for anyone seeking to advance their career in areas where Linux is the backbone of infrastructure, cloud computing, and cybersecurity operations. Upon successful completion, you will possess a recognized certification that validates your ability to confidently operate within and manage Linux-based systems. This professional credential significantly enhances your marketability, opening doors to advanced roles in system administration, DevOps, and cloud engineering, and positions you as a valuable asset capable of contributing to robust and secure IT infrastructures.

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|----------|--------------|
| Duration | 2 hours      |
| Level    | Intermediate |
| Vendor   | Linux        |

## COURSE CURRICULUM

### 01 Module 1: Linux System Overview & Basic Commands

- Introduction to Linux distributions (Ubuntu, CentOS)
- Understanding the Linux file system hierarchy (FHS)
- Basic navigation commands (cd, ls, pwd, mkdir, rmdir)
- File manipulation (cp, mv, rm, touch, find)
- Viewing file content (cat, less, more, head, tail)

### 02 Module 2: Advanced Command Line & Text Processing

- Using redirection and pipes
- Regular expressions (regex) with grep, sed, awk
- File archiving and compression (tar, gzip, bzip2, zip)
- Advanced searching with find and locate

### 03 Module 3: User, Group, and Permissions Management

- Managing local users and groups (useradd, usermod, userdel, groupadd)
- Understanding file and directory permissions (chmod, chown, chgrp)
- Special permissions: SUID, SGID, Sticky Bit
- Access Control Lists (ACLs) fundamentals

### 04 Module 4: Process Management & System Monitoring

- Understanding processes (PID, PPID, states)
- Managing processes (ps, top, htop, kill, pkill)
- Scheduling tasks (cron, at)

- Monitoring system resources (free, df, du, iostat, vmstat)
- Log file management (journalctl, logrotate)

## 05 Module 5: Package Management & Network Configuration

- Introduction to package managers (APT, YUM/DNF)
- Installing, updating, and removing packages
- Configuring network interfaces (ip, ifconfig)
- Basic network troubleshooting (ping, traceroute, netstat, ss)
- Understanding SSH and remote access

## 06 Module 6: Scripting Fundamentals & Basic Security

- Introduction to Bash scripting
- Variables, conditional statements, loops in Bash
- Script execution and debugging
- Basic firewall concepts (UFW, firewalld)
- File integrity checks (checksums)

## CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Junior Linux System Administrator**
- > **DevOps Support Engineer**
- > **Cloud Operations Associate**

## FREQUENTLY ASKED QUESTIONS

### Q: What specific Linux distributions will I gain practical experience with during this course?

This "Linux Certified" course provides hands-on experience primarily with Ubuntu and CentOS/RHEL-based systems, which are widely used in enterprise environments. You'll learn transferable skills that apply across various Linux distributions, focusing on common commands, system utilities, and configuration practices.

### Q: Beyond basic command-line knowledge, what are the recommended technical prerequisites for this intermediate Linux course?

To get the most out of this "Linux Certified" course, a foundational understanding of computer operating systems and networks is beneficial. While not strictly required, prior exposure to the Linux command line (e.g., navigating directories, basic file operations) would allow you to delve deeper into the intermediate topics more quickly.

### Q: How does this "Linux Certified" course prepare me for roles in cloud computing or DevOps?

This course lays a crucial foundation for cloud computing and DevOps by developing strong Linux system administration skills. You'll master essential commands, scripting fundamentals, and service management, which are core competencies for managing cloud instances (AWS EC2, Azure VMs, Google Cloud) and automating infrastructure with tools like Ansible or Docker, making you an ideal candidate for entry-level DevOps or Cloud Operations roles.

## ABOUT COMPUTER PRIDE



*East Africa's Premier IT Training Center*

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

**15+**

Years of Excellence

**10,000+**

Professionals Trained

**50+**

Vendor Certifications

## READY TO ENROL?

Take the next step in your technology career.

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