



LINUX TRAINING

Linux For System Administrators

Master Linux command-line tools to efficiently manage, secure, and troubleshoot critical server environments as a skilled system administrator.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

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

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COURSE OVERVIEW

This "Linux For System Administrators" course is meticulously designed to equip IT professionals with the essential skills required to manage, maintain, and troubleshoot Linux-based systems effectively in an enterprise environment. Participants will delve into core Linux concepts, mastering command-line operations, user and group management, file system navigation, and critical system configuration. The curriculum emphasizes hands-on practical application, ensuring you gain proficiency in everyday administrative tasks. Beyond foundational knowledge, this course covers advanced topics crucial for modern system administration, including network configuration, process management, system monitoring, and fundamental security practices. You'll learn to deploy, secure, and optimize Linux servers, enabling you to handle real-world challenges with confidence. By the end of this program, you will possess a robust skill set that is highly sought after across various industries, enhancing your career prospects and making you an invaluable asset to any IT team.

Duration	2 hours
Level	Intermediate
Vendor	Linux

COURSE CURRICULUM

01 Module 1: Getting Started with Linux Administration

- Linux Operating System Overview
- Command-Line Interface (CLI) Essentials
- File System Hierarchy Standard (FHS)
- Basic File and Directory Management
- Using Man Pages and Info Pages

02 Module 2: User, Group, and Permissions Management

- User and Group Account Creation and Management
- File and Directory Permissions (chmod, chown, chgrp)
- Special Permissions (SUID, SGID, Sticky Bit)
- Access Control Lists (ACLs)
- Password Management and Security

03 Module 3: Package Management and Software Installation

- Understanding Package Managers (APT, YUM/DNF)
- Installing, Updating, and Removing Software Packages
- Managing Repositories
- Compiling Software from Source (basic)
- Dependency Resolution

04 Module 4: Storage Management and Networking Fundamentals

- Disk Partitioning and Formatting (fdisk, parted, mkfs)
- Mounting File Systems (mount, umount, /etc/fstab)
- Logical Volume Management (LVM) Basics
- Network Configuration (IP addressing, netplan/NetworkManager)
- Essential Network Tools (ping, ip, ss, netstat)
- DNS Configuration and Troubleshooting

Module 5: Process Management, System Monitoring & Troubleshooting

- 05**
- Understanding Processes and Daemons
 - Managing Processes (ps, top, htop, kill)
 - Scheduling Jobs (cron, at)
 - System Logging (syslog, journalctl)
 - Performance Monitoring Tools (vmstat, iostat, sar)
 - Basic System Troubleshooting Techniques

06 **Module 6: Linux Security & Basic Shell Scripting**

- Firewall Configuration (ufw, firewallld)
- SSH Key-based Authentication
- Introduction to SELinux/AppArmor
- Backup and Restore Strategies (tar, rsync)
- Basic Shell Scripting for Automation (bash)
- Variables, conditionals, and loops in scripts

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Junior Linux System Administrator**
- > **DevOps Support Engineer**
- > **Cloud Infrastructure Specialist (Linux-focused)**

FREQUENTLY ASKED QUESTIONS

Q: What are the prerequisites for enrolling in the "Linux For System Administrators" course?

This course is designed for individuals with a foundational understanding of computer systems and basic command-line navigation. While prior Linux experience isn't strictly required, familiarity with general IT concepts and operating system fundamentals will be beneficial. We recommend completing our "Introduction to Linux" module or having equivalent knowledge before diving into administration topics.

Q: How will this course specifically help me transition into a DevOps or cloud-focused role?

The "Linux For System Administrators" course provides a robust foundation in critical areas essential for DevOps and cloud roles, such as command-line proficiency, network configuration, automation basics through shell scripting, and understanding system processes. These skills are directly transferable and form the bedrock for learning containerization (Docker, Kubernetes), infrastructure-as-code (Terraform, Ansible), and managing Linux instances in AWS, Azure, or GCP environments.

Q: What level of security expertise will I gain, and can I configure a production-ready server after this course?

This course introduces fundamental Linux security concepts, including user/group permissions, firewall configuration (ufw/firewalld), and basic SSH hardening. While it provides a solid foundation for securing a server, configuring a fully production-ready, highly secure server often requires additional advanced security training and practical experience specific to your organization's compliance and threat model. You will be well-equipped to implement initial security measures and understand best practices.

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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