



LINUX TRAINING

Linux Networking

Master Linux networking configurations and services. Learn to deploy and manage secure, efficient network environments.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

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

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | www.computer-pride.co.ke

COURSE OVERVIEW

The Linux Networking course by Computer Pride is an intermediate-level program designed to equip IT professionals with the essential skills to configure, manage, and troubleshoot network services within a Linux environment. This course delves into the fundamental concepts of TCP/IP networking as applied to Linux systems, covering critical areas such as network interface configuration, DNS, DHCP, routing, and firewall management. Participants will gain hands-on experience with command-line tools and configuration files to build robust and secure network infrastructures.

By mastering the core technologies taught in this course, including network protocols, services like Apache and SSH, and security measures using iptables/firewalld, you will be able to efficiently maintain and optimize Linux-based network operations. This specialization enhances your ability to manage server environments, deploy applications, and ensure seamless connectivity, making you an invaluable asset in any organization leveraging Linux for its infrastructure. The professional benefits extend to improved system reliability, enhanced security posture, and the capability to diagnose complex network issues effectively, propelling your career in system and network administration.

Duration	2 hours
Level	Intermediate
Vendor	Linux

COURSE CURRICULUM

01 Module 1: Linux Networking Fundamentals

- Introduction to TCP/IP and OSI Model
- Network Interfaces and Addressing (IPv4/IPv6)
- Understanding Network Configuration Files
- Essential Network Commands (ip, ifconfig, netstat, ss)

02 Module 2: Network Configuration and Management

- Configuring Static and Dynamic IP Addresses
- Managing Network Services with systemd
- Hostname and DNS Resolution Configuration
- DHCP Server and Client Setup

03 Module 3: Advanced Network Services

- Implementing SSH for Secure Remote Access
- Configuring Web Servers (Apache/Nginx) for Network Access
- Setting Up and Managing FTP/SFTP Services
- NFS and Samba for Network File Sharing

04 Module 4: Routing and Firewalling

- Understanding Routing Tables and Gateways
- Static and Dynamic Routing with Linux
- Introduction to iptables and firewalld
- Configuring Firewall Rules for Security and Access Control

05 Module 5: Network Troubleshooting and Security

- Tools for Network Diagnostics (ping, traceroute, mtr, tcpdump)
- Analyzing Network Traffic and Logs

- Implementing Network Security Best Practices
- Troubleshooting Common Network Issues on Linux

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Linux System Administrator specializing in Network Operations**
- > **DevOps Engineer focusing on Network Configuration and Automation**
- > **Network Support Specialist for Linux-based Infrastructures**

FREQUENTLY ASKED QUESTIONS

Q: What prior experience or knowledge is recommended before enrolling in the Linux Networking course?

This course is designed for individuals with foundational knowledge of Linux command-line operations and basic system administration. Familiarity with common Linux commands, file system navigation, and user/group management is highly recommended to ensure you can fully grasp the intermediate networking concepts taught.

Q: How will the skills learned in this Linux Networking course directly benefit my career as a System Administrator?

As a System Administrator, this course will empower you to proficiently configure and manage the network stack on Linux servers, troubleshoot connectivity issues efficiently, and secure network services against unauthorized access. These skills are crucial for maintaining robust server environments, deploying web applications, and ensuring seamless communication between systems, directly enhancing your value in roles that demand strong Linux infrastructure management.

Q: Does this course cover advanced topics like VPNs or container networking (Docker/Kubernetes)?

While this intermediate Linux Networking course lays a strong foundation in core network configuration, services, routing, and firewalling, it does not extensively cover advanced topics such as VPN implementation or networking specifically within containerized environments like Docker or Kubernetes. Those specialized areas are typically addressed in more advanced or dedicated courses focusing on cloud infrastructure or DevOps 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.

Location

1st Flr, ICEA Building
Kenyatta Ave, Nairobi

Email

info@computer-pride.co.ke

Phone

+254 705 900 900

www.computer-pride.co.ke