



LINUX TRAINING

Linux Troubleshooting Training Course

Master Linux troubleshooting skills to diagnose and resolve common system issues efficiently.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This intermediate-level Linux Troubleshooting Training Course from Computer Pride is meticulously designed to equip IT professionals with the essential skills to diagnose, analyze, and resolve a wide array of issues encountered in Linux operating environments. Through practical, hands-on exercises and expert-led instruction, participants will delve into core troubleshooting methodologies, mastering the use of command-line tools, log analysis, and system utilities to maintain optimal system performance and stability. The course emphasizes a proactive approach to problem-solving, enabling you to swiftly identify root causes and implement effective solutions, minimizing downtime and ensuring business continuity for critical Linux-based systems.

By completing this 2-hour intensive training, you will gain the confidence to tackle complex system failures, network connectivity problems, performance bottlenecks, and file system corruption with proficiency. This specialization is invaluable for anyone managing Linux servers, workstations, or cloud instances, transforming reactive problem-solvers into proactive system guardians. Elevate your technical capabilities and become an indispensable asset in any IT infrastructure team, securing your place at the forefront of robust system administration and operational excellence.

Duration	2 hours
Level	Intermediate
Vendor	Linux

COURSE CURRICULUM

01 Module 1: Introduction to Linux Troubleshooting Principles

- Understanding the troubleshooting lifecycle
- Key Linux system components and their interdependencies
- Essential command-line tools for diagnostics (dmesg, journalctl, less, grep, awk)
- Interpreting system logs and error messages

02 Module 2: System Boot and Service Management Issues

- Troubleshooting GRUB and boot loader problems
- Diagnosing kernel panics and system crashes
- Managing systemd services and unit files
- Resolving service startup failures and dependency issues

03 Module 3: Network Connectivity and Configuration Troubleshooting

- Identifying and resolving common network interface problems
- Using network diagnostic tools (ping, traceroute, netstat, ss, ip, dig)
- Troubleshooting DNS resolution issues
- Diagnosing firewall and routing complexities (iptables, firewallld)

04 Module 4: Performance, Resource, and Storage Management

- Identifying CPU, memory, and I/O bottlenecks (top, htop, vmstat, iostat)
- Analyzing process and thread issues
- Troubleshooting disk space and inode exhaustion
- Resolving file system corruption and mounting errors (fsck, tune2fs)

05 Module 5: User Management, Permissions, and Application Troubleshooting

- Diagnosing user authentication and authorization failures (PAM)
- Resolving file and directory permission problems (chmod, chown)
- Troubleshooting application crashes and segmentation faults
- Debugging shell scripts and environmental variable issues

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Junior Linux System Administrator responsible for server uptime and incident response.**
- > **Technical Support Specialist (Tier 2/3) focusing on Linux-based application and infrastructure issues.**
- > **DevOps Engineer seeking to enhance diagnostic skills for containerized and cloud-native Linux environments.**

FREQUENTLY ASKED QUESTIONS

Q: What prior Linux experience is recommended before enrolling in this troubleshooting course?

This course is designed for individuals with an intermediate understanding of Linux. You should be comfortable navigating the command line, performing basic file system operations, managing users, and have a foundational grasp of Linux architecture. Prior experience with installing software and configuring basic network settings is highly beneficial for maximizing your learning in this specialized troubleshooting training.

Q: How will this course specifically enhance my ability to prevent and quickly resolve critical system outages?

This course focuses intensely on practical diagnostic techniques and methodical problem-solving. You will learn to identify early warning signs, interpret complex log entries, and use advanced command-line tools to pinpoint root causes rapidly. The curriculum covers scenarios from boot failures to network disruptions and performance bottlenecks, equipping you with a structured approach to not only resolve outages efficiently but also implement preventive measures to enhance system resilience, thereby significantly reducing downtime.

Q: Does this training cover troubleshooting across various Linux distributions, or is it focused on a specific one?

This Linux Troubleshooting Training Course is designed to be distribution-agnostic, focusing on core Linux principles, utilities, and methodologies that are universally applicable across popular distributions like RHEL/CentOS, Ubuntu, Debian, and Fedora. While examples may use common tools found in many distributions, the emphasis is on transferable skills and understanding the underlying Linux operating system, ensuring you can apply your knowledge regardless of the specific distro you encounter in your professional role.

ABOUT COMPUTER PRIDE

**computerpride*****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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