

CompTIA Linux+

This course is for the IT pro who will use Linux to manage everything from cars and smartphones to servers and supercomputers, as a vast number of enterprises use Linux in cloud, cybersecurity, mobile and web administration applications.

How you'll benefit

This class will help you:

- Learn the knowledge for configuring, operating and troubleshooting Linux systems

Why Attend with Current Technologies CLC

- Our Instructors are in the top 10%
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs Run up to Date Code for all our courses

Objectives

Upon completing this course, the student will be able to meet these objectives:

- Identify basic Linux concepts and perform basic Linux tasks
- Manage user and group accounts
- Manage partitions and the Linux filesystem
- Manage various files in Linux
- Work with Linux permissions and ownership
- Print files
- Manage packages
- Manage kernel services
- Work with the Bash shell and shell scripts
- Manage jobs and processes
- Manage system services
- Configure network services
- Configure basic Internet services
- Implement measures to secure a Linux system
- Manage hardware associated with Linux systems

Course Duration

5 day

Course Price

\$2,895.00

Methods of Delivery

- Instructor Led
- Virtual ILT
- On-Site

Certification Exam

XK0-004

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- Troubleshoot Linux system issues
- Install the Linux operating system
- Configure the GUI

Who Should Attend

The job roles best suited to the material in this course are:

- This course is for those who have job duties that include Linux troubleshooting, installation, or maintenance, or if you are preparing for any type of Linux-related career, it provides the background knowledge and skills you will require to be successful.

Prerequisites

To fully benefit from this course, you should have the following knowledge:

- CompTIA A+ certification
- CompTIA Network+ certification
- Have at least 12 months of Linux admin experience

Outline

Module 1: Performing Basic Linux Tasks

- Identify the History and Development of Linux
- Enter Shell Commands
- Get Help Using Linux
- Start and Stop Linux

Module 2: Managing User and Group Accounts

- Create User and Group Accounts
- Configure User Profiles
- Administer User and Group Accounts

Module 3: Managing Partitions and the Linux Filesystem

- Create Partitions
- Navigate through the Linux Filesystem

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- Manage the Filesystem
- Maintain the Filesystem

Module 4: Managing Files in Linux

- Create and Edit Files
- Locate Files
- Search Text Using Regular Expressions
- Apply Filters to Text Streams
- Link Files
- Back Up and Restore Files
- Manage Databases Using MariaDB

Module 5: Managing Linux Permissions and Ownership

- Modify File and Directory Permissions
- Modify Default Permissions
- Modify File and Directory Ownership
- Set Special Permissions and Attributes

Module 6: Printing Files

- Configure a Local Printer
- Print Files
- Configure Remote Printing

Module 7: Managing Packages

- Manage Packages Using RPM
- Verify Packages
- Upgrade Packages
- Configure Repositories
- Manage Packages Using YUM
- Advanced Package and Application Management

Module 8: Managing Kernel Services

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- Explore the Linux Kernel
- Customize Kernel Modules
- Create an initrd Image
- Manage Device Drivers and Hardware Devices
- Monitor Processes and Resources

Module 9: Working with the Bash Shell and Shell Scripts

- Perform Basic Bash Shell Operations
- Write a Bash Shell Script
- Customize the Bash Shell
- Redirect Standard Input and Output
- Use Control Statements in Shell Scripts

Module 10: Managing Jobs and Processes

- Manage Jobs and Background Processes
- Manage Processes Using the Process Table
- Examine Delayed and Detached Jobs
- Schedule Jobs
- Maintain the System Time

Module 11: Managing System Services

- Configure System Services
- Monitor System Logs
- Configure Security-Enhanced Linux (SELinux)

Module 12: Configuring Network Services

- Connect to a Network
- Configure Routes
- Configure DHCP
- Configure DNS
- Implement Network File Sharing Services
- Configure NIS

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- Manage Remote Network Systems

Module 13: Configuring Basic Internet Services

- Configure a Web Server
- Implement Apache Access Control
- Implement Access Control in a Proxy Server
- Configure Email Services
- Control Internet Services

Module 14: Securing Linux

- Examine the Basics of System Security
- Secure User Accounts
- Enable Firewall Functionality
- Implement Security Auditing
- Detect Intrusion

Module 15: Managing Hardware

- Identify Common Hardware Components and Resources
- Configure Power Management
- Configure Removable Hardware
- Configure Mass Storage Devices
- Manage Logical Volumes Using the Logical Volume Manager
- Configure Disk Quotas

Module 16: Troubleshooting Linux Systems

- Troubleshoot System-Based Issues
- Troubleshoot Hardware Issues
- Troubleshoot Network Connection and Security Issues

Module 17: Installing Linux

- Prepare for Installation
- Identify Phases of the Linux Boot Sequence

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- Configure GRUB
- Install the Operating System
- Perform Post-Installation Tasks

Module 18: Configuring the GUI

- Implement X
- Customize the Display Manager
- Customize the Window Environment