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Learning Style: Virtual Classroom

Technology: CompTIA

Difficulty: Intermediate

Course Duration:

CompTIA Linux+ (CompTIA-Linux+)



About This Course:

Its time to prepare for the CompTIA Linux+ (CompTIA-Linux+) which a very popular course and valued certification around the world. There is a huge demand of Linux administrators, engineers and architects because of their experience and pro skills related to Linux. If you have the basic knowledge the foundation is already set for the next level where you can learn further about the installation, security, and troubleshooting. This course will also help you to be prepared for the CompTIA

Linux+ exam.

This certification differentiates you from the crowd in the IT industry because of your consistent learning and experience of Linux. Having a six month or 1-year experience is the key to your exam because you cannot enroll if you don’t have the basic knowledge about it. In this course, you will learn about managing the user administrations, Linux based clients and monitoring the security of the systems.

Course Objectives:

- Learners will be able to install, configure, and manage Linux systems across various environments, including cloud and on-premises deployments. They will automate administrative tasks using shell scripting and Infrastructure as Code (IaC) tools, deploy and manage containerized applications with Docker and Podman, and configure secure Linux networking, including TCP/IP, DNS, DHCP, and cloud-based solutions. Additionally, they will implement Linux security best practices such as firewalls, SELinux, AppArmor, and access controls, manage system performance and troubleshooting, and utilize package management tools like APT, YUM, and DNF. The course also prepares learners for the CompTIA Linux+ XK0-005 certification, validating expertise in Linux administration, security, and automation.

Audience:

People who can enroll for this course can be:

- IT Professionals with experience or good knowledge
- Linux administrators, engineers, and architects

Prerequisite:

- The person enrolling for the course should have prior experience working with Linux for a year or more.
- Should have all the basic knowledge about the Linux operating system and its administration and support.

Course Outline:

Lesson 1: Performing Basic Linux Tasks

- Topic A: Identify the History and Development of Linux
- Topic B: Enter Shell Commands
- Topic C: Get Help Using Linux

- Topic D: Start and Stop Linux

Lesson 2: Managing User and Group Accounts

- Topic A: Create User and Group Accounts
- Topic B: Configure User Profiles
- Topic C: Administer User and Group Accounts

Lesson 3: Managing Partitions and the Linux Filesystem

- Topic A: Create Partitions
- Topic B: Navigate Through the Linux Filesystem
- Topic C: Manage the Filesystem
- Topic D: Maintain the Filesystem

Lesson 4: Managing Files in Linux

- Topic A: Create and Edit Text Files
- Topic B: Locate Files
- Topic C: Search Text Using Regular Expressions
- Topic D: Apply Filters to Text Streams
- Topic E: Link Files
- Topic F: Back Up and Restore Files
- Topic G: Manage Databases Using MariaDB

Lesson 5: Managing Linux Permissions and Ownership

- Topic A: Modify File and Directory Permissions
- Topic B: Modify Default Permissions
- Topic C: Modify File and Directory Ownership
- Topic D: Set Special Permissions and Attributes

Lesson 6: Printing Files

- Topic A: Configure a Local Printer
- Topic B: Print Files
- Topic C: Configure Remote Printing

Lesson 7: Managing Packages

- Topic A: Manage Packages Using RPM
- Topic B: Verify Packages
- Topic C: Upgrade Packages
- Topic D: Configure Repositories
- Topic E: Manage Packages Using YUM
- Topic F: Advanced Package and Application Management

Lesson 8: Managing Kernel Services

- Topic A: Explore the Linux Kernel

- Topic B: Customize Kernel Modules
- Topic C: Create an initrd Image
- Topic D: Manage Device Drivers and Hardware Devices
- Topic E: Monitor Processes and Resources

Lesson 9: Working with the Bash Shell and Shell Scripts

- Topic A: Perform Basic Bash Shell Operations
- Topic B: Write a Bash Shell Script
- Topic C: Customize the Bash Shell
- Topic D: Redirect Standard Input and Output
- Topic E: Use Control Statements in Shell Scripts

Lesson 10: Managing Jobs and Processes

- Topic A: Manage Jobs and Background Processes
- Topic B: Manage Processes Using the Process Table
- Topic C: Delay and Detach Jobs
- Topic D: Schedule Jobs
- Topic E: Maintain the System Time

Lesson 11: Managing System Services

- Topic A: Configure System Services
- Topic B: Monitor System Logs
- Topic C: Configure Security-Enhanced Linux (SELinux)

Lesson 12: Configuring Network Services

- Topic A: Connect to a Network
- Topic B: Configure Routes
- Topic C: Configure Client Network Services
- Topic D: Manage Remote Network Systems

Lesson 13: Configuring Basic Internet Services

- Topic A: Configure Email Services
- Topic B: Control Internet Services

Lesson 14: Securing Linux

- Topic A: Implement Basic System Security
- Topic B: Secure User Accounts

Lesson 15: Managing Hardware

- Topic A: Identify Common Hardware Components and Resources
- Topic B: Configure Removable Hardware
- Topic C: Configure Disk Quotas

Lesson 16: Troubleshooting Linux Systems

- Topic A: Troubleshoot System-Based Issues
- Topic B: Troubleshoot Hardware Issues
- Topic C: Troubleshoot Network Connection and Security Issues

Lesson 17: Installing Linux

- Topic A: Prepare for Installation
- Topic B: The Linux Boot Process
- Topic C: Configure GRUB
- Topic D: Install the Operating System

Lesson 18: Configuring the GUI

- Topic A: Implement X
- Topic B: Customize the Display Manager
- Topic C: Enable Accessibility Settings in Linux

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