

CompTIA Linux+ (XK0-005)

Structured technical training and certification preparation

A practical, student-friendly outline covering performing Basic Linux Tasks, managing Users and Groups, managing Permissions and Ownership, manag...

MODULES

16

LESSONS

77

FORMAT

Self-paced

Module Breakdown

<p>MODULE 1</p> <p>Performing Basic Linux Tasks</p> <ul style="list-style-type: none">1.1 Introduction to Linux XK0-0051.2 Instructor Introduction1.3 Course Introduction1.4 Identify the Linux Design Philosophy1.5 Enter Shell Commands1.6 Shell Commands Activity1.7 Get Help with Linux	<p>MODULE 2</p> <p>Managing Users and Groups</p> <ul style="list-style-type: none">2.1 Assume Superuser Privileges2.2 Create, Modify, and Delete Users2.3 Create, Modify, and Delete Groups2.4 Query Users and Groups2.5 Configure Account Profiles
<p>MODULE 3</p> <p>Managing Permissions and Ownership</p> <ul style="list-style-type: none">3.1 Modify File and Directory Permissions3.2 Modify File and Directory Ownership3.3 Configure Special Permissions and Attributes3.4 Troubleshoot Permissions Issues	<p>MODULE 4</p> <p>Managing Storage</p> <ul style="list-style-type: none">4.1 Create Partitions4.2 Manage Logical Volumes4.3 Mount File Systems4.4 Manage File Systems4.5 Navigate the Linux Directory Structure4.6 Troubleshoot Storage Issues4.7 Container Storage Management4.8 Advanced Data Management and Security for Containers

Module Breakdown (continued)

<p>MODULE 5</p> <p>Managing Files and Directories</p> <ul style="list-style-type: none"> 5.1 Create and Edit Text Files 5.2 Search for Files 5.3 Perform Operations on Files and Directories 5.4 Process Text Files 5.5 Manipulate File Output 	<p>MODULE 6</p> <p>Managing Kernel Modules</p> <ul style="list-style-type: none"> 6.1 Explore the Linux Kernel 6.2 Install and Configure Kernel Modules 6.3 Monitor Kernel Modules
<p>MODULE 7</p> <p>Managing the Linux Boot Process</p> <ul style="list-style-type: none"> 7.1 Configure Linux Boot Components 7.2 Configure GRUB 	<p>MODULE 8</p> <p>Managing System Components</p> <ul style="list-style-type: none"> 8.1 Configure Localization Options 8.2 Configure GUIs 8.3 Manage Services 8.4 Troubleshoot Process Issues 8.5 Troubleshoot CPU and Memory Issues 8.6 - Troubleshooting With systemd
<p>MODULE 9</p> <p>Managing Devices</p> <ul style="list-style-type: none"> 9.1 Identify the Types of Linux Devices 9.2 Configure Devices 9.3 Monitor Devices 9.4 Troubleshoot Hardware Issues 	<p>MODULE 10</p> <p>Managing Networking</p> <ul style="list-style-type: none"> 10.1 Identify TCP-IP Fundamentals 10.2 Identify Linux Server Roles 10.3 Connect to a Network 10.4 Configure DHCP and DNS Client Services 10.5 Configure Cloud and Virtualization Technologies 10.6 Troubleshoot Networking Issues
<p>MODULE 11</p> <p>Managing Packages and Software</p> <ul style="list-style-type: none"> 11.1 Identify Package Managers 11.2 Manage RPM Packages with YUM 11.3 Manage Debian Packages with APT 11.4 Configure Repositories 11.5 Acquire Software 11.6 Build Software from Source Code 11.7 Troubleshoot Software Dependency Issues 	<p>MODULE 12</p> <p>Securing Linux Systems</p> <ul style="list-style-type: none"> 12.1 Implement Cybersecurity Best Practices 12.2 Implement Identity and Access Management Methods 12.3 Configure SELinux or AppArmor 12.4 Configure Firewalls 12.5 Implement Logging Services 12.6 Back Up, Restore, and Verify Data 12.7 NFTables - Setting Up Advanced Firewalls
<p>MODULE 13</p> <p>Working with Bash Scripts</p> <ul style="list-style-type: none"> 13.1 Customize the Bash Shell Environment 13.2 Identify Scripting and Programming Fundamentals 13.3 Write and Execute a Simple Bash Script 13.4 Incorporate Control Statements in Bash Scripts 	<p>MODULE 14</p> <p>Automating Tasks</p> <ul style="list-style-type: none"> 14.1 Schedule Jobs 14.2 Implement Version Control Using Git 14.3 Identify Orchestration Concepts

Module Breakdown (continued)

MODULE 15

Installing Linux

- 15.1 Prepare for Linux Installation
- 15.2 Perform the Installation

MODULE 16

Working With Modern IT Infrastructure

- 16.1 - Infrastructure As Code (IAC)
- 16.2 - Containers, Cloud, and Orchestration Concepts
- 16.3 - Container Management
- 16.4 - Container and Cloud Networking Basics