

uCertify

CompTIA Linux+ (XK0-005)



Lesson



Practice test



Live-Lab

08 Jun 2023

- 1 Introduction
- 2 Preparing Your Environment
- 3 Introduction to Services
- 4 Managing Files, Directories, and Text
- 5 Searching and Analyzing Text
- 6 Explaining the Boot Process
- 7 Maintaining System Startup and Services
- 8 Configuring Network Connections
- 9 Comparing GUIs
- 10 Adjusting Localization Options
- 11 Administering Users and Groups
- 12 Handling Storage
- 13 Protecting Files
- 14 Governing Software
- 15 Tending Kernel Modules
- 16 Applying Ownership and Permissions
- 17 Looking at Access and Authentication Methods
- 18 Implementing Logging Services
- 19 Overseeing Linux Firewalls
- 20 Embracing Best Security Practices
- 21 Analyzing System Properties and Remediation
- 22 Optimizing Performance
- 23 Investigating User Issues
- 24 Dealing with Linux Devices
- 25 Troubleshooting Application and Hardware Issues

26 Deploying Bash Scripts

27 Automating Jobs

28 Controlling Versions with Git

29 Understanding Cloud and Virtualization Concepts

30 Inspecting Cloud and Virtualization Services

31 Orchestrating the Environment

10.

1 

Kickstart your prep for the CompTIA Linux+ XK0-005 exam with the CompTIA Linux+ (XK0-005) course and lab. The labs are designed to give you a hands-on experience of Linux. The course covers the XK0-005 exam objectives and provides knowledge in areas such as system management, security, scripting, containers, automation, and troubleshooting. It also contains performance-based, multiple-choice, and multiple-answer questions to provide you a better understanding of Linux concepts.

2 3 

459

4 

380

5 

595

6 

445

7 

8 

9 

.

10

- 2014
 - 1.
- 2015
 - 3.
- 2016
 - 3.
- 2017
 - 4.
- 2018
 - 3.
- 2019
 - 3.
- 2020
 - 3.

11

1: Introduction

- The Exam Objectives

2: Preparing Your Environment

- Setting Up a Learning Space
- Exploring Linux Distributions
- Locating a Terminal
- Summary

3: Introduction to Services

- What Is a Linux Server?
- Serving the Basics
- Serving Local Networks
- Implementing Security
- Improving Performance
- Summary
- Exam Essentials

4: Managing Files, Directories, and Text

- Handling Files and Directories
- Linking Files and Directories
- Reading Files

- Finding Information
- Summary
- Exam Essentials

5: Searching and Analyzing Text

- Processing Text Files
- Redirecting Input and Output
- Editing Text Files
- Summary
- Exam Essentials

6: Explaining the Boot Process

- The Linux Boot Process
- The Firmware Startup
- Linux Bootloaders
- System Recovery
- Summary
- Exam Essentials

7: Maintaining System Startup and Services

- Looking at init
- Managing systemd Systems
- Managing SysV init Systems
- Digging Deeper into systemd
- Summary
- Exam Essentials

8: Configuring Network Connections

- Configuring Network Features

- Command-Line Networking Tool
- Basic Network Troubleshooting
- Advanced Network Troubleshooting
- Summary
- Exam Essentials

9: Comparing GUIs

- Focusing on the GUI
- Serving Up the GUI
- Using Remote Desktops
- Forwarding
- Summary
- Exam Essentials

10: Adjusting Localization Options

- Understanding Localization
- Setting Your Locale
- Looking at Time

- Summary
- Exam Essentials

11: Administering Users and Groups

- Managing User Accounts
- Managing Groups
- Setting Up the Environment
- Querying Users
- Managing Disk Space Usage
- Summary
- Exam Essentials

12: Handling Storage

- Storage Basics
- Partitioning Tools
- Understanding Filesystems
- Formatting Filesystems
- Mounting Filesystems

- Managing Filesystems
- Storage Alternatives
- Summary
- Exam Essentials

13: Protecting Files

- Understanding Backup Types
- Looking at Compression Methods
- Comparing Archive and Restore Utilities
- Securing Offsite/Off-System Backups
- Checking Backup Integrity
- Summary
- Exam Essentials

14: Governing Software

- Working with Source Code
- Packaging Applications
- Using Application Containers

- Summary
- Exam Essentials

15: Tending Kernel Modules

- Exploring Kernel Modules
- Installing Kernel Modules
- Removing Kernel Modules
- Summary
- Exam Essentials

16: Applying Ownership and Permissions

- Looking at File and Directory Permissions
- Access Control Lists
- Context-Based Permissions
- Understanding Linux User Types
- Restricting Users and Files
- Summary
- Exam Essentials

17: Looking at Access and Authentication Methods

- Getting to Know PAM
- Exploring PKI Concepts
- Using SSH
- Using VPN as a Client
- Summary
- Exam Essentials

18: Implementing Logging Services

- Understanding the Importance of Logging
- Basic Logging Using rsyslog
- Journaling with systemd-journald
- Summary
- Exam Essentials

19: Overseeing Linux Firewalls

- Providing Access Control
- Looking at Firewall Technologies
- Forwarding IP Packets
- Dynamically Setting Rules
- Summary
- Exam Essentials

20: Embracing Best Security Practices

- User Security
- Network Security
- Summary

- Exam Essentials

21: Analyzing System Properties and Remediation

- Troubleshooting the Network
- Troubleshooting Storage Issues
- Troubleshooting the CPU
- Troubleshooting Memory
- Surviving a Lost Root Password
- Summary
- Exam Essentials

22: Optimizing Performance

- Looking at Processes
- Monitoring Processes in Real Time
- Managing Processes
- Summary
- Exam Essentials

23: Investigating User Issues

- Troubleshooting Access
- Examining File Obstacles
- Exploring Environment and Shell Issues
- Summary
- Exam Essentials

24: Dealing with Linux Devices

- Communicating with Linux Devices
- Working with Devices
- Using Hot-Pluggable Devices
- Summary
- Exam Essentials

25: Troubleshooting Application and Hardware Issues

- Dealing with Storage Problems
- Uncovering Application Permission Issues
- Analyzing Application Dependencies

- Looking at SELinux Context Violations
- Exploring Firewall Blockages
- Troubleshooting Additional Hardware Issues
- Summary
- Exam Essentials

26: Deploying Bash Scripts

- The Basics of Shell Scripting
- Advanced Shell Scripting
- Writing Script Programs
- Summary
- Exam Essentials

27: Automating Jobs

- Running Scripts in Background Mode
- Running Scripts without a Console
- Sending Signals
- Job Control

- Running Like Clockwork
- Summary
- Exam Essentials

28: Controlling Versions with Git

- Understanding Version Control
- Setting Up Your Git Environment
- Committing with Git
- Tags
- Merging Versions
- Summary
- Exam Essentials

29: Understanding Cloud and Virtualization Concepts

- Considering Cloud Services
- Understanding Virtualization
- Exploring Containers
- Summary

- Exam Essentials

30: Inspecting Cloud and Virtualization Services

- Focusing on VM Tools
- Understanding Bootstrapping
- Exploring Storage Issues
- Considering Network Configurations
- Summary
- Exam Essentials

31: Orchestrating the Environment

- Understanding Orchestration Concepts
- Provisioning the Data Center
- Looking at Container Orchestration Engines
- Summary
- Exam Essentials

90
PRE-ASSESSMENTS
QUESTIONS

2
FULL LENGTH TESTS

90
POST-ASSESSMENTS
QUESTIONS

13 Live Labs

-

Preparing Your Environment

- Updating Ubuntu

Introduction to Services

- Exploiting LDAP-Based Authentication
- Configuring a Proxy Server

Managing Files, Directories, and Text

- Using Basic Linux Commands 1
- Finding Files

Searching and Analyzing Text

- Processing Text Files
- Redirecting Output

Explaining the Boot Process

- Managing GRUB2 Parameters
- Booting Linux into Single-User Mode

Maintaining System Startup and Services

- Finding the System Initialization Method
- Managing Services with systemctl

Configuring Network Connections

- Using Basic Linux Commands 2
- Performing Basic Network Troubleshooting
- Capturing Network Packets Using tcpdump

Adjusting Localization Options

- Using the timedatectl Command to Set the System Time

Administering Users and Groups

- Reviewing Account Settings
- Using usermod to Lock an Account
- Querying About Users

Handling Storage

- Creating Partitions and Filesystems
- Creating a Physical Volume, Volume Group, Logical Volume, and File Systems

Protecting Files

- Using tar for Backups

Governing Software

- Investigating RPM App Package Issues
- Using Red Hat Package Management Tools

Tending Kernel Modules

- Managing Kernel Modules from the Command Line

Applying Ownership and Permissions

- Changing Permissions on a File
- Assigning Additional ACLs to a File
- Exploring SELinux
- Managing Users and Groups

Looking at Access and Authentication Methods

- Exploring PAM
- Configuring an SSH Server

Implementing Logging Services

- Viewing the System Logs

Overseeing Linux Firewalls

- Using the firewalld Service

Analyzing System Properties and Remediation

- Viewing Disk Usage

Optimizing Performance

- Displaying Process Information
- Managing Processes
- Watching the Stopped Processes

Deploying Bash Scripts

- Creating an Advanced Script
- Making Simple Batch Files

Automating Jobs

- Running Scripts in Background Mode
- Restarting a Job in the Foreground mode

Controlling Versions with Git

- Using Git

Inspecting Cloud and Virtualization Services

- Exploring the Contents of the Anaconda File

42
LIVE LABS

42
VIDEO TUTORIALS

01:19
HOURS

14 



support@ucertify.com

