uCertify

Course Outline

LPIC-1: Linux Administrator (102-500)

22 Apr 2026

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1. Course Objective

Start your prep for the LPIC-1 certification exam with the LPIC-1: Linux Administrator (102-500) course and lab. The lab is cloud-based, device-enabled, and can easily be integrated with an LMS. The LPIC-1 exam guide covers the 102-500 exam objectives and helps you customize existing scripts, or write simple new Bash scripts; install and configure X11, Manage user and group accounts and related system files, and understand the components of desktop environments, such as display managers and window managers.

2. Pre-Assessment

Pre-Assessment lets you identify the areas for improvement before you start your prep. It determines what students know about a topic before it is taught and identifies areas for improvement with question assessment before beginning the course.

3. Quiz

Quizzes test your knowledge on the topics of the exam when you go through the course material. There is no limit to the number of times you can attempt it.

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QUIZ

4. flashcards

Flashcards are effective memory-aiding tools that help you learn complex topics easily. The flashcard will help you in memorizing definitions, terminologies, key concepts, and more. There is no limit to the number of times learners can attempt these. Flashcards help master the key concepts.

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FLASHCARDS

5. Glossary of terms

uCertify provides detailed explanations of concepts relevant to the course through Glossary. It contains a list of frequently used terminologies along with its detailed explanation. Glossary defines the key terms.

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GLOSSARY OF TERMS

6. Expert Instructor-Led Training

uCertify uses the content from the finest publishers and only the IT industry's finest instructors. They have a minimum of 15 years real-world experience and are subject matter experts in their fields. Unlike a live class, you can study at your own pace. This creates a personal learning experience and gives you all the benefit of hands-on training with the flexibility of doing it around your schedule 24/7.

7. ADA Compliant & JAWS Compatible Platform

uCertify course and labs are ADA (Americans with Disability Act) compliant. It is now more accessible to students with features such as:

- Change the font, size, and color of the content of the course
- Text-to-speech, reads the text into spoken words
- Interactive videos, how-tos videos come with transcripts and voice-over
- Interactive transcripts, each word is clickable. Students can clip a specific part of the video by clicking on a word or a portion of the text.

JAWS (Job Access with Speech) is a computer screen reader program for Microsoft Windows that reads the screen either with a text-to-speech output or by a Refreshable Braille display. Student can easily navigate uCertify course using JAWS shortcut keys.

8. State of the Art Educator Tools

uCertify knows the importance of instructors and provide tools to help them do their job effectively. Instructors are able to clone and customize course. Do ability grouping. Create sections. Design grade scale and grade formula. Create and schedule assessments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

9. Award Winning Learning Platform (LMS)

uCertify has developed an award winning, highly interactive yet simple to use platform. The SIIA CODiE Awards is the only peer-reviewed program to showcase business and education technology's finest products and services. Since 1986, thousands of products, services and solutions have been recognized for achieving excellence. uCertify has won CODiE awards consecutively for last 7 years:

- **2014**
    1. Best Postsecondary Learning Solution

- **2015**
    1. Best Education Solution

2. Best Virtual Learning Solution
3. Best Student Assessment Solution
4. Best Postsecondary Learning Solution
5. Best Career and Workforce Readiness Solution
6. Best Instructional Solution in Other Curriculum Areas
7. Best Corporate Learning/Workforce Development Solution

- **2016**
  1. Best Virtual Learning Solution
  2. Best Education Cloud-based Solution
  3. Best College and Career Readiness Solution
  4. Best Corporate / Workforce Learning Solution
  5. Best Postsecondary Learning Content Solution
  6. Best Postsecondary LMS or Learning Platform
  7. Best Learning Relationship Management Solution

- **2017**
  1. Best Overall Education Solution
  2. Best Student Assessment Solution
  3. Best Corporate/Workforce Learning Solution
  4. Best Higher Education LMS or Learning Platform

- **2018**
  1. Best Higher Education LMS or Learning Platform
  2. Best Instructional Solution in Other Curriculum Areas
  3. Best Learning Relationship Management Solution

- **2019**
  1. Best Virtual Learning Solution
  2. Best Content Authoring Development or Curation Solution
  3. Best Higher Education Learning Management Solution (LMS)

- **2020**

1. Best College and Career Readiness Solution
2. Best Cross-Curricular Solution
3. Best Virtual Learning Solution

10. Chapter & Lessons

uCertify brings these textbooks to life. It is full of interactive activities that keeps the learner engaged. uCertify brings all available learning resources for a topic in one place so that the learner can efficiently learn without going to multiple places. Challenge questions are also embedded in the chapters so learners can attempt those while they are learning about that particular topic. This helps them grasp the concepts better because they can go over it again right away which improves learning.

Learners can do Flashcards, Exercises, Quizzes and Labs related to each chapter. At the end of every lesson, uCertify courses guide the learners on the path they should follow.

Syllabus

Chapter 1: Introduction

- Why Become Linux Certified?
- Who Should Buy This Course
- The Exam Objectives
- Exam 102-500 Objectives

Chapter 2: Configuring the GUI, Localization, and Printing

- Understanding the GUI
- Understanding the X11 Architecture

- Managing the GUI
- Providing Accessibility
- Using X11 for Remote Access
- Using Remote Desktop Software
- Understanding Localization
- Setting Your Locale
- Looking at Time
- Configuring Printing
- Summary
- Exam Essentials

Chapter 3: Administering the System

- Managing Users and Groups
- Managing Email
- Using Log and Journal Files
- Maintaining the System Time
- Summary
- Exam Essentials

Chapter 4: Configuring Basic Networking

- Networking Basics
- Configuring Network Features
- Basic Network Troubleshooting
- Advanced Network Troubleshooting
- Summary
- Exam Essentials

Chapter 5: Writing Scripts

- Shell Variables
- The Basics of Shell Scripting
- Advanced Shell Scripting
- Writing Script Programs
- Running Scripts in Background Mode
- Running Scripts Without a Console
- Sending Signals
- Job Control

- Running Like Clockwork
- Summary
- Exam Essentials

Chapter 6: Securing Your System

- Administering Network Security
- Administering Local Security
- Exploring Cryptography Concepts
- Looking at SSH
- Using GPG
- Summary
- Exam Essentials

11. Practice Test

Here's what you get

60	3	60
PRE-ASSESSMENTS QUESTIONS	FULL LENGTH TESTS	POST-ASSESSMENTS QUESTIONS

Features

Each question comes with detailed remediation explaining not only why an answer option is correct but also why it is incorrect.

Unlimited Practice

Each test can be taken unlimited number of times until the learner feels they are prepared. Learner can review the test and read detailed remediation. Detailed test history is also available.

Each test set comes with learn, test and review modes. In learn mode, learners will attempt a question and will get immediate feedback and complete remediation as they move on to the next question. In test mode, learners can take a timed test simulating the actual exam conditions. In review mode, learners can read through one item at a time without attempting it.

12. Live Labs

The benefits of live-labs are:

- Exam based practical tasks
- Real equipment, absolutely no simulations
- Access to the latest industry technologies
- Available anytime, anywhere on any device
- Break and Reset functionality
- No hardware costs

Lab Tasks

Configuring the GUI, Localization, and Printing

- Checking a Display Server
- Viewing the System Locale

Administering the System

- Reviewing Account Settings
- Using usermod to Lock an Account
- Creating a New Group and Adding an Account to a Group
- Managing Users and Groups
- Maintaining the System Time
- Using the timedatectl Command to Set the System Time

Configuring Basic Networking

- Understanding Network Configuration on CentOS
- Finding the Network Information
- Finding Applications that are Providing TCP Network Services

Writing Scripts

- Redirecting the Output of a Command
- Running Scripts in Background Mode, in Foreground Mode, and Without a Console
- Writing a Bash Script to View the Password Information for System Users

Securing Your System

- Finding the System's Initialization Method
- Managing Services with systemctl

Here's what you get

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LIVE LABS

13. Post-Assessment

After completion of the uCertify course Post-Assessments are given to students and often used in conjunction with a Pre-Assessment to measure their achievement and the effectiveness of the exam.

You can't stay away! Get

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