uCertify

Course Outline

CompTIA® Linux / LPIC-1 Labs

Contents

1. Course Objective

Gain hands on expertise in CompTIA Linux+ and LPIC-1 exams with CompTIA Linux+/LPIC-1 Cert Guide course and performance-based labs. Performance-based labs are versatile - labs simulate real-world, hardware, software & command line interface environments and can be mapped to any text-book, course & training. This course is designed in two parts, in the first part it focuses on concepts and basic command line usage which includes boot process and runlevels; package install and management; basic command line usage; and much more. The second part addresses the applications found in a typical Linux environment which includes logging and time services; networking fundamentals; system security; and much more.

2. 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.

3. 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.

4. 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 assignments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

5. 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 5 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

6. Performance Based Labs

uCertify's performance-based labs are simulators that provides virtual environment. Labs deliver hands on experience with minimal risk and thus replace expensive physical labs. uCertify Labs are cloud-based, device-enabled and can be easily integrated with an LMS. Features of uCertify labs:

- Provide hands-on experience in a safe, online environment
- Labs simulate real world, hardware, software & CLI environment
- Flexible and inexpensive alternative to physical Labs
- Comes with well-organized component library for every task
- Highly interactive - learn by doing
- Explanations and remediation available
- Videos on how to perform

Lab Tasks

- Listing loaded kernel modules
- Displaying PCI bus information
- Viewing the IRQs
- Setting devices to read only at boot time
- Identifying mode of runlevels
- Storing Linux bootloader
- Storing configuration parameters
- Identifying runlevels
- Checking runlevel
- Choosing runlevel for the reboot command
- Displaying boot log
- Displaying messages from the kernel ring buffer
- Displaying the shared library
- Dynamically linked libraries
- Working with shared libraries
- Removing a package with its configuration file
- Reconfiguring installed Debian packages
- Viewing dpkg configuration
- Displaying information and removing the samba package
- Converting an rpm package into the Debian package
- Identifying the RPM utility
- Listing, installing, and removing rpm packages
- Installing packages by resolving dependencies
- Upgrading and installing packages
- Configuring yum
- Displaying packages
- Maintaining backup of a hard disk
- Listing Files and Directories
- Verifying the working directory
- Displaying the last part of a file
- Compressing files
- Extracting an archive file
- Redirecting an output to a file
- Removing duplicate lines
- Performing reverse sort for a file

- Printing a file
- Reporting virtual memory statistics
- Listing processes
- Displaying currently running processes
- Listing all running screen processes
- Displaying information of processes
- Storing information about mounted filesystems
- Unmounting a filesystem
- Checking and repairing Linux file systems
- Running the fsck command
- Setting up a Linux swap area
- Extracting quota information
- Checking user and group quotas
- Enabling and disabling user quotas for filesystems
- Listing contents of a directory
- Making a script executable
- Running an executable file with permissions
- Searching SGID files
- Modifying the ownership of a file
- Displaying environment variable
- Creating an environment variable
- Displaying the long file listing
- Setting the variables
- Running MySQL
- Identifying a directory name
- Creating a user
- Deleting a user account
- Managing a group
- Creating and deleting an account
- Limiting user resources
- Configuring password aging
- Configuring a password
- Setting the local date and time
- Understanding system logging
- Managing log files
- Mapping port numbers and protocols

- Adding a default gateway
- Configuring the routing table
- Tracing an IPv6 path
- Pinging to the IPv6 host
- Displaying information regarding traffic
- Displaying sockets

Here's what you get

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77

**PERFORMANCE
BASED LAB**

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Have Any Query? We Are Happy To Help!

GET IN TOUCH:

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