

# CompTIA Linux+ Certification Practice Exam (Sample)

## Study Guide



**Everything you need from our exam experts!**

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# Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

# How to Use This Guide

**This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:**

## 1. Start with a Diagnostic Review

**Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.**

## 2. Study in Short, Focused Sessions

**Break your study time into manageable blocks (e.g. 30 - 45 minutes). Review a handful of questions, reflect on the explanations.**

## 3. Learn from the Explanations

**After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.**

## 4. Track Your Progress

**Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.**

## 5. Simulate the Real Exam

**Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.**

## 6. Repeat and Review

**Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.**

**There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!**

## **Questions**

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- 1. Which command displays processes without controlling the terminal?**
  - A. ps -x**
  - B. top**
  - C. htop**
  - D. jobs**
- 2. Upon creating a soft link, what happens if the original file is deleted?**
  - A. The soft link remains functional**
  - B. The soft link becomes broken**
  - C. The soft link duplicates the file**
  - D. The soft link is automatically deleted**
- 3. What is the purpose of the automount feature in systemd units?**
  - A. To enable automatic login for users**
  - B. To allow automatic mounting of filesystems when accessed**
  - C. To set network configurations upon system boot**
  - D. To manage user sessions**
- 4. Which of the following correctly identifies a way to assign a value to a variable in Bash?**
  - A. VAR=value**
  - B. VAR: value**
  - C. VAR = value**
  - D. VALUE = VAR**
- 5. What is the default port number for the POP protocol?**
  - A. 143**
  - B. 220**
  - C. 109 and 110**
  - D. 80**

**6. What flag is utilized in `dpkg` to force the installation of a dependency?**

- A. `--install-forced`**
- B. `--force-install`**
- C. `--force`**
- D. `--force-deps`**

**7. What type of information does the file `/etc/resolve.conf` configure?**

- A. DNS name servers**
- B. File system settings**
- C. Kernel parameters**
- D. User permissions**

**8. Which symbol is used for comments in Shell Scripts?**

- A. `//`**
- B. `#`**
- C. `/* */`**
- D. `--`**

**9. Which directory is specifically for data related to system programs and data?**

- A. `/usr`**
- B. `/usr/local`**
- C. `/usr/sbin`**
- D. `/usr/bin`**

**10. Which command allows for interactive partition management if you need a more comprehensive interface?**

- A. `fdisk`**
- B. `cfdisk`**
- C. `parted`**
- D. `gdisk`**

## **Answers**

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1. A
2. B
3. B
4. A
5. C
6. C
7. A
8. B
9. C
10. B

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## **Explanations**

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## 1. Which command displays processes without controlling the terminal?

- A. ps -x**
- B. top**
- C. htop**
- D. jobs**

The command that displays processes without controlling the terminal is "ps -x." This command is used to list all running processes on the system, including those that are not attached to any terminal. The "-x" option specifically includes processes that are running in the background, without a controlling shell or terminal. In contrast, the other options serve different purposes or have different contexts. The "top" command provides a dynamic, real-time view of running processes and their resource usage, but it is typically used within a terminal session and does not focus solely on processes without a terminal. "htop" is an enhanced version of "top" with a more user-friendly interface, but it also works within a terminal environment, reflecting real-time processes that can include terminal-controlled processes. The "jobs" command is used within a shell session to display the current jobs (processes) that are managed by that terminal session, and it only shows jobs associated with the session you are in. Thus, "ps -x" is the command specifically designed to show all processes, including those not linked to a terminal, making it the correct choice in this context.

## 2. Upon creating a soft link, what happens if the original file is deleted?

- A. The soft link remains functional**
- B. The soft link becomes broken**
- C. The soft link duplicates the file**
- D. The soft link is automatically deleted**

When a soft link, also known as a symbolic link, is created, it acts as a pointer or reference to the original file. If the original file is deleted, the link does not have a valid target to point to. As a result, the soft link becomes "broken" because it no longer points to an existing file. This means that any attempt to access or use the soft link will result in an error indicating that the target file can't be found. In contrast, when a hard link is used, both the original file and the hard link reference the same inode on the disk. Thus, if the original file is deleted, the hard link remains functional as long as it points to the inode that still exists. Soft links, however, rely on the existence of the original file, and without it, they lose their functionality. Consequently, the correct understanding is that the soft link becomes broken when the original file is deleted.

### 3. What is the purpose of the automount feature in systemd units?

- A. To enable automatic login for users**
- B. To allow automatic mounting of filesystems when accessed**
- C. To set network configurations upon system boot**
- D. To manage user sessions**

The automount feature in systemd units serves the specific purpose of allowing automatic mounting of filesystems when they are accessed. This means that a filesystem is only mounted when a user or process tries to access it, reducing the need to mount all filesystems during system startup. This behavior can improve resource management and system responsiveness, as it conserves system resources by mounting filesystems on-demand. When a user attempts to access a directory that is configured with automount, systemd will automatically mount the filesystem associated with that directory at that moment. Once the access is finished and the filesystem is no longer in use for a period of time (after a configurable idle timeout), systemd can unmount the filesystem again, freeing up resources. Understanding how automounting works is essential for efficient filesystem management within Linux, especially in environments where many filesystems are used but not all are needed immediately or constantly.

### 4. Which of the following correctly identifies a way to assign a value to a variable in Bash?

- A. VAR=value**
- B. VAR: value**
- C. VAR = value**
- D. VALUE = VAR**

Assigning a value to a variable in Bash is done using the syntax where the variable name is followed directly by an equal sign and then the value you wish to assign, without any spaces. The correct format is simply `VAR=value`. This operation creates a variable named VAR and assigns it the specified value. In Bash, spaces around the equal sign are not permitted; when they are included, the shell interprets it as an attempt to execute a command rather than to assign a value to a variable. Thus, formatting such as `VAR: value` or `VAR = value` is incorrect. The former uses a colon, which is not valid for variable assignment, while the latter introduces unintended spaces, which are not allowed in variable assignments. Lastly, `VALUE = VAR` attempts to assign the value of the variable VAR to VALUE with improper spacing and is fundamentally incorrect due to the different variable naming and spacing conventions. This understanding is crucial when working with shell scripts or the command line in a Linux environment, ensuring that variables are assigned and manipulated correctly.

## 5. What is the default port number for the POP protocol?

- A. 143
- B. 220
- C. 109 and 110**
- D. 80

The correct answer reflects the default port numbers used by the Post Office Protocol (POP) for retrieving emails. POP has two widely recognized versions: POP2 and POP3. POP2, which is an older version, traditionally operates on port 109, while POP3, the more commonly used version today, operates on port 110. This makes option C accurate, as it includes both of these default ports associated with the POP protocol. Understanding these port numbers is crucial for configuring email clients and troubleshooting any issues related to email retrieval using these protocols. When considering the other options, it's clear that they do not conform to the standard ports used for POP. For instance, port 143 is designated for the Internet Message Access Protocol (IMAP), while port 220 is typically not associated with either POP protocol. Port 80 is reserved for Hypertext Transfer Protocol (HTTP), which is unrelated to email retrieval. Thus, the ports referenced in option C are significant in the context of email communication.

## 6. What flag is utilized in dpkg to force the installation of a dependency?

- A. **--install-forced**
- B. **--force-install**
- C. --force**
- D. **--force-deps**

The correct flag used in dpkg to force the installation of a dependency is the one that simplifies the process of overriding certain checks that would typically prevent the installation. The --force option allows the user to bypass specific restrictions that might cause the package installation to fail, such as unmet dependencies. When utilizing this flag, it instructs dpkg to go ahead and proceed with the installation despite any issues it might encounter with the dependencies of the package being installed. This can be particularly useful in situations where the user is aware of the implications and wants to ensure that a package can be installed even in the presence of issues related to its dependencies. The other options do not correspond to valid flags recognized by dpkg. Using the --force option effectively allows for a manual intervention in the installation process, empowering the user to handle dependencies as they deem appropriate.

## 7. What type of information does the file /etc/resolv.conf configure?

- A. DNS name servers**
- B. File system settings**
- C. Kernel parameters**
- D. User permissions**

The file /etc/resolv.conf is specifically used to configure DNS name servers on a Linux system. This file contains a list of DNS server IP addresses that the operating system will query for hostname resolution in order to translate domain names into IP addresses. The parameters defined in this file, such as nameserver entries, inform the system where to look when resolving queries about internet addresses. Understanding this file's purpose is crucial for network configuration and troubleshooting on Linux systems. It directly affects how the system interacts with domain name resolution services, which is essential for accessing the web or any network-related functions. Other options such as file system settings, kernel parameters, and user permissions pertain to different configuration aspects within a Linux environment and are not managed through /etc/resolv.conf.

## 8. Which symbol is used for comments in Shell Scripts?

- A. //**
- B. #**
- C. /\* \*/**
- D. --**

In shell scripts, the symbol used for comments is the hash mark, or pound sign, represented as '#'. When a line starts with this character, the interpreter ignores everything that follows it on that line, treating it as a comment rather than executable code. This is particularly useful for adding notes and explanations in scripts to enhance readability for anyone reviewing the code later. Using comments effectively can clarify the purpose of various code sections, helping both the original author and future users understand what the script is intended to do and how it operates. The other symbols mentioned have different meanings in various contexts. For example, the double forward slash '//' is often used for comments in programming languages like Java or C++, but not in shell scripts. The /\* and \*/ symbols are used for multi-line comments in languages like C and Java, rather than in shell scripting. The double dash '--' is utilized in some command-line interfaces as a marker for the end of command options but does not serve as a comment in shell scripts.

## 9. Which directory is specifically for data related to system programs and data?

- A. /usr
- B. /usr/local
- C. /usr/sbin**
- D. /usr/bin

The directory designated for data related to system programs and data is /usr/sbin. This directory typically contains system binaries that are used for system administration tasks and maintenance. The executables found in /usr/sbin are generally not intended for use by normal users but are reserved for administrative tasks that require elevated privileges. This includes command-line tools for system management and maintenance. In contrast, the other options serve different purposes. The /usr directory is a hierarchy that contains user utilities and applications, which are more general and not exclusively for system administration. The /usr/local directory is used for locally installed software that is not managed by the system's package manager, often giving users the ability to install and maintain their applications separately. The /usr/bin directory contains user command binaries, which are executable files available to all users on the system, intended for general use rather than for system management. Therefore, /usr/sbin is specifically set aside for system-related programs and administrative tasks, distinguishing it from other directories that cater to general user applications or local installations.

## 10. Which command allows for interactive partition management if you need a more comprehensive interface?

- A. fdisk
- B. cfdisk**
- C. parted
- D. gdisk

cfdisk provides a more user-friendly, interactive interface for managing disk partitions compared to other commands. It operates in a graphical text mode, which allows users to navigate through their partitions easily using keyboard shortcuts. This interface is designed to be intuitive, enabling users to create, delete, resize, and modify partitions with greater ease than more command-line-centric tools. While other options like fdisk, parted, and gdisk are also valid utilities for partition management, they may not offer the same interactive experience. For instance, while fdisk is powerful and widely used, it primarily operates via command line and may not provide the immediate visual feedback that users might find helpful during partitioning tasks. Parted, on the other hand, is known for its capability to manage both MBR and GPT disks but is more documentation-focused and can involve a steeper learning curve for users unfamiliar with its syntax. gdisk focuses more on GPT partition tables and does not have the same user-friendly interface as cfdisk, which is designed specifically for a straightforward interactive experience.

# Next Steps

**Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.**

**As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.**

**If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at [hello@examzify.com](mailto:hello@examzify.com).**

**Or visit your dedicated course page for more study tools and resources:**

**<https://comptialinuxplus.examzify.com>**

**We wish you the very best on your exam journey. You've got this!**

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