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LPI 010-150

Version Demo

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Topic Break Down

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QUESTION NO: 1

Which of the following is a requirement of the GPL license but not the BSD license?

- A. Users who modify and distribute the software under the GPL license, must make the modifications they made, available to the recipients under the same license.
- B. The GPL license forbids the removal of copyright and license notices from source code files that are distributed.
- C. The GPL license contains a disclaimer of warranty requiring users not to hold the software authors liable for any damages.
- D. The GPL license requires that any legal disputes be settled with the mediation of the Free Software Foundation.

ANSWER: A

Explanation:

The key requirement of the GPL (General Public License) that differentiates it from the BSD (Berkeley Software Distribution) license is that any modification of GPL-licensed software that is distributed must also be released under the GPL. This means that users who modify and share the software must make their modifications available under the same license, maintaining the same freedom for further users. This requirement is known as 'copyleft'. In contrast, the BSD license is more permissive and does not require modified versions to be open sourced under the same license, allowing proprietary use of BSD-licensed code. Reference: [GNU General Public License](https://www.gnu.org/licenses/gpl-3.0.en.html)

QUESTION NO: 2

Which is a suitable command to find the next appearance of the word hidden in a man page being viewed from the command line?

- A. find hidden
- B. /? hidden
- C. CTRL-F hidden
- D. /hidden

ANSWER: D

Explanation:

The correct command to search for a word within a man page (or any document viewed in the 'less' pager) is to use the forward slash '/' followed by the word to search. The 'less' pager is typically used to view man pages, and in it, the '/' character initiates a search operation, allowing you to find subsequent matches of the word in the text. For example, '/hidden' will search for the next occurrence of 'hidden'. Reference: [Less Command in Linux](https://linux.die.net/man/1/less)

QUESTION NO: 3 - (FILL BLANK)

What is the usual absolute path of the personal directory for the user foo?

ANSWER: /home/foo, /home/foo/

Explanation:

The usual absolute path for a user's personal directory is typically located in the /home directory, followed by their username. For the user 'foo', this would be /home/foo. This is a standard convention in Linux file systems, ensuring each user has a separate personal directory to keep their files and configurations. More details can be found in the Linux Filesystem Hierarchy Standard: https://refspecs.linuxfoundation.org/FHS_3.0/fhs-3.0.html.

QUESTION NO: 4

Which of the following are correct commands for changing the current directory to the user's home? (Choose TWO answers)

- A. cd /home
- B. cd ~
- C. cd ..
- D. cd
- E. cd /

ANSWER: B D

Explanation:

The commands to change the current directory to the user's home directory are 'cd ~' and 'cd'. The tilde symbol '~' is a shortcut to the current user's home directory in Unix-like systems. Similarly, running the 'cd' command without any arguments defaults to changing the current directory to the user's home directory. Reference: [Linux cd Command](<https://man7.org/linux/man-pages/man1/cd.1p.html>)

QUESTION NO: 5

Which commands provide help for a specific Linux command? (Choose TWO correct answers.)

- A. info
- B. man
- C. helpme
- D. ask
- E. whatdoes

ANSWER: A B

Explanation:

In Linux, the 'man' command, short for "manual," is used to display the user manual of any command that we can run on the terminal. Additionally, the 'info' command provides more comprehensive documentation for some commands (similar to man pages but often more detailed). These tools provide guidance and help on command usage. For more information, you can visit the official GNU documentation: - man: https://www.gnu.org/software/inetutils/manual/html_node/man-invocation.html - info: https://www.gnu.org/software/texinfo/manual/texinfo/html_node/Using-Info.html

QUESTION NO: 6

Which of the following commands can be used to create a file?

- A. touch
- B. build
- C. nico
- D. create
- E. mkfile

ANSWER: A

Explanation:

The `touch` command is commonly used in Unix/Linux systems to create an empty file if the file does not already exist. Using `touch filename` will create an empty file named `filename`. This command is also used to update the access and modification timestamps of existing files. For more information, you can refer to the official documentation: [GNU Coreutils - Touch](https://www.gnu.org/software/coreutils/manual/html_node/touch-invocation.html).

QUESTION NO: 7

What permissions are set on a file with the command `chmod 654 file.txt`?

- A. drw-r-xr--
- B. d--wxr-x--
- C. --wxr-x--x
- D. -rwxrw---x
- E. -rw-r-xr---

ANSWER: E

Explanation:

The 'chmod 654 file.txt' command sets the file permissions for 'file.txt' to 654 in octal notation, which translates to: - Owner (6): Read and write permission - Group (5): Read and execute permission - Others (4): Read permission only Therefore, the correct answer should be '-rw-r-xr--'. For further information, you can visit the official Linux man page for chmod: <https://man7.org/linux/man-pages/man1/chmod.1.html>

QUESTION NO: 8

Which function does a shell program serve?

- A. It provides a graphical environment.
- B. It is responsible for establishing a connection to another computer.
- C. It receives user commands and executes them.
- D. It is responsible for logging a user into the system.

ANSWER: C

Explanation:

A shell program in Linux is a command-line interpreter that allows users to input commands and execute them. Unlike graphical user interfaces (GUIs), shells are text-based and provide a more flexible and powerful tool for managing the operating system. Shells can also execute scripts, which are collections of commands stored in a file, making automation of tasks possible. For more detailed information, you can refer to the official GNU Bash documentation: <https://www.gnu.org/software/bash/manual/bash.html>

QUESTION NO: 9

Which of the following answers are true for cloud computing? (Choose TWO correct answers.)

- A. Cloud Computing provides new tools to manage IT resources.
- B. From the business perspective, Cloud Computing means outsourcing or centralization of IT operations.
- C. Cloud Computing is the opposite of green IT; i.e. the use of fossil, non-regenerative energy for computing.
- D. Cloud Computing implies sharing all information with everyone else in 'the cloud'.

ANSWER: A B

Explanation:

Cloud computing is a broad concept that involves delivering computing services over the internet. This can encompass anything from data storage and servers to networking and software. The essence of cloud computing is to provide flexible resources and economies of scale, which can lead to cost savings and efficiency for businesses. Traditionally, one of the big attractions of cloud computing for businesses is the ability to outsource IT functions, reducing the need for in-house IT management. 1. "Cloud Computing provides new tools to manage IT resources." This statement is true as cloud computing offers innovative ways to manage and scale IT infrastructure efficiently. 2. "From the business perspective, Cloud Computing means outsourcing or centralization of IT operations." This is also true because many businesses use cloud computing to centralize their IT operations, outsourcing aspects like server maintenance and software updates to cloud service providers. The remaining options are incorrect or misleading with regard to the conceptual understanding of cloud computing. For more information, you can refer to resources like the [Amazon Web Services (AWS) Cloud](<https://aws.amazon.com/what-is-cloud-computing/>), which provide detailed explanations of cloud computing concepts.

QUESTION NO: 10 - (FILL BLANK)

What two character sequence is present at the beginning of an interpreted script? (Please specify the TWO correct characters only)

ANSWER: #!Shebang

Explanation:

In Unix-like operating systems, the two-character sequence \