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Linux Essentials Certificate Exam, version 1.5

LPI 010-150

Version Demo

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QUESTION NO: 1

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: 2

Which one of the following statements concerning Linux passwords is true?

- A. All passwords can be decrypted using the system administrator's master password.
- B. Passwords may never start with a non-letter.
- C. Users cannot change their password once it has been set.
- D. Passwords are only stored in encrypted form.
- E. Passwords may be at most six characters long.

ANSWER: D**Explanation:**

In Linux systems, passwords are stored in a securely hashed, not encrypted, form to prevent unauthorized access. This means that the actual passwords are not stored on the system but rather a hash value that is created using a one-way cryptographic function. This protects the original password from being easily retrieved or reversed, ensuring security.

QUESTION NO: 3

Which of the following is a combined audio/video interface for transmission of digital data?

- A. ATI
- B. DVD
- C. HDMI
- D. VGA
- E. DVI

ANSWER: C

Explanation:

HDMI (High-Definition Multimedia Interface) is a proprietary audio/video interface for transmitting uncompressed video data and compressed or uncompressed digital audio data from an HDMI-compliant source device to a compatible computer monitor, video projector, digital television, or digital audio device. It is one of the most widely used interfaces for transferring high-definition content between devices. \n\nReference: [HDMI Wikipedia](https://en.wikipedia.org/wiki/HDMI)

QUESTION NO: 4

Which of the following Linux distributions use the dpkg package management system? (Choose TWO correct answers.)

- A. Suse
- B. Red Hat
- C. Debian
- D. Ubuntu
- E. Mandriva

ANSWER: C D

Explanation:

The dpkg package management system is used by Debian and its derivatives, including Ubuntu, which is a popular distribution based on Debian. Other distributions like Suse, Red Hat, and Mandriva use different packaging systems such as rpm (Red Hat Package Manager) or their own systems. For more information on dpkg, you can visit: <https://wiki.debian.org/dpkg>.

QUESTION NO: 5

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: 6

Which permissions should be given to a file that needs to be opened and edited by the file's owner and opened read-only by the file's group?

- A. 0751
- B. 0466
- C. 0540
- D. 0640
- E. 0444

ANSWER: D**Explanation:**

The correct permission to allow the file's owner to open and edit the file, while only allowing the group to read the file, is 0640. In Linux file permissions, the first digit (0) represents special permissions, the second digit (6) represents the owner's permissions (read and write), the third digit (4) represents the group's permissions (read only), and the fourth digit (0) represents others' permissions (none). Thus, 0640 correctly reflects the required settings for the owner's read and write access and read-only access for the group. Reference: [Linux File Permissions](<https://www.linux.org/threads/file-permissions-chmod.4095/>)

QUESTION NO: 7

Which command will display running process information in real time?

- A. top
- B. show current
- C. ps current
- D. process

ANSWER: A**Explanation:**

The "top" command is used in Unix-like operating systems to display all running processes and their status, allowing the user to easily monitor system performance in real time. This command provides a dynamic, real-time view of a running system's resource usage, such as CPU, memory, and process information. For more information, you can reference the official documentation: [The Linux man-pages project - top](<https://man7.org/linux/man-pages/man1/top.1.html>)

QUESTION NO: 8

Which of the following commands will output all of the lines that contain either the string Fred or fred? (Choose TWO correct answers.)

- A. `grep -v fred data_file`
- B. `grep '[f]red' data_file`
- C. `egrep fred data_file`
- D. `grep '[Ff]red' data_file`
- E. `grep -i fred data_file`

ANSWER: D E**Explanation:**

The question asks for commands that match lines containing either 'Fred' or 'fred'.\n1. ``grep '[Ff]red' data_file`` leverages a regular expression that matches both 'Fred' and 'fred'. The square brackets indicate a character set, so any line containing 'F' or 'f' followed by 'red' will match.\n2. ``grep -i fred data_file`` uses the `-i` option to ignore case, so both 'Fred' and 'fred' will be matched regardless of the case.\n\n**References:**\n- [GNU Grep Manual](<https://www.gnu.org/software/grep/manual/grep.html>) provides documentation on how the ``grep`` command operates, including the `-i` and use of character classes to match specific patterns.

QUESTION NO: 9

Which criteria are useful when deciding which operating system to use? (Choose THREE correct answers.)

- A. License costs.
- B. Ideological preferences of the system administrator.
- C. Linux can do everything, there is no need for further evaluation.
- D. Availability of mandatory applications and tools.
- E. Skills of the administrators and staff.

ANSWER: A D E**Explanation:**

When choosing an operating system, several factors and criteria should be considered to ensure it meets the specific needs and preferences of an organization or individual. The correct criteria include: - License costs: The financial impact of licensing should be considered, as it affects the overall budget. - Skills of the administrators and staff: The expertise and proficiency of the people who will be managing and using the system can influence the choice since certain systems may require specific knowledge or skills. - Availability of mandatory applications and tools: Ensuring that the operating system supports the necessary applications and tools critical to operations is crucial. These considerations help in making an informed and effective decision that suits the organizational needs or personal requirements. For more detailed guidance on selecting an operating system, you can refer to the Linux Foundation resources.

QUESTION NO: 10

Which statements about the directory `/etc/skel` are correct? (Choose TWO answers)

- A. The personal settings of root are in this directory.
- B. The files from the directory are copied to the home directory of the new user when starting the system.
- C. The files from the directory are copied to the home directory of a new user when the account is created.
- D. The directory contains a default set of configuration files used by the `useradd` command.
- E. The directory contains the global settings for the Linux system.

ANSWER: C D**Explanation:**

The directory `/etc/skel` contains files and directories that are copied over to a new user's home directory whenever a user account is created. This is useful for providing a set of default files and configurations for new users. Specifically, the `useradd` command utilizes the files within `/etc/skel` as a template. Official Reference: [Useradd man page](<https://man7.org/linux/man-pages/man8/useradd.8.html>)