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Lpi 101-500 Certification Exam, also known as the LPIC-1 Exam 101, Part 1 of 2, version 5.0, is the first step towards becoming a certified Linux professional. 101-500 exam is designed to test the candidates' knowledge and skills in basic Linux administration, command-line interface, and networking fundamentals. The LPIC-1 certification is recognized globally and is an essential requirement for IT professionals who want to demonstrate their proficiency in Linux administration.

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## Lpi LPIC-1 Exam 101, Part 1 of 2, version 5.0 Sample Questions (Q107-Q112):

### NEW QUESTION # 107

Where does the BIOS search for a bootloader?

- A. On all connected storage media regardless of the boot device order.
- B. Only on the last added storage media.
- C. On all connected storage media in the defined boot device order.
- D. The BIOS is not responsible to search for a valid bootloader.
- E. Only on hard disk drives in the defined boot device order.

**Answer: C**

Explanation:

The BIOS (Basic Input/Output System) is a firmware program that is stored in a ROM chip on the motherboard, and it performs some basic tasks when the system is powered on, such as:

- \* initializing the hardware components and peripherals
- \* performing the power-on self-test (POST) to check the system integrity
- \* selecting a boot device from the boot order list
- \* loading and executing the bootloader program from the boot device

The boot device is the data carrier that contains the bootloader, which is a small program that is responsible for loading and executing the kernel. The boot device can be a hard disk, a USB drive, a CD-ROM, or a network device. The BIOS has a boot order list, which is a sequence of possible boot devices that the BIOS will search for a valid bootloader. The boot order list can be configured by the user through the BIOS setup utility, which is usually accessed by pressing a key such as F2, F10, or Del during the POST.

The BIOS will search for a bootloader by means of a special signature, which is a sequence of bytes that indicates the presence of a bootloader. The signature is usually located in the first sector of the boot device, which is called the boot sector or the master boot record (MBR). The BIOS will read the boot sector of each boot device in the boot order list, and check if the last two bytes are 0x55 and 0xAA, which are the standard boot signature. If the boot signature is found, the BIOS will load the boot sector into memory and execute it.

If the boot signature is not found, the BIOS will move on to the next boot device in the boot order list. If none of the boot devices have a valid boot signature, the BIOS will display an error message such as:

No bootable device - insert boot disk and press any key

References:

How does the BIOS know where the bootloader is located? - Super User

Bootloader: What is it and how does it work? - IONOS

Boot Process with Systemd in Linux - GeeksforGeeks

Linux Boot Process Step-by-Step Explained - javatpoint

## NEW QUESTION # 108

When considering the use of hard links, what are valid reasons not to use hard links?

- A. Each hard link has individual ownership, permissions and ACLs which can lead to unintended disclosure of file content
- B. Hard links are not available on all Linux systems because traditional filesystems, such as ext4, do not support them
- C. If users other than root should be able to create hard links, suh1 has to be installed and configured
- D. When a hard linked file is changed, a copy of the file is created and consumes additional space
- E. Hard links are specific to one filesystem and cannot point to files on another filesystem

**Answer: E**

Explanation:

The only valid reason not to use hard links is that they are specific to one filesystem and cannot point to files on another filesystem. This means that if you want to link files across different partitions or devices, you cannot use hard links. You have to use symbolic links instead, which are pointers to file names rather than inodes. The other options are either false or irrelevant. Hard links are available on most Linux systems and traditional filesystems, such as ext4, do support them<sup>1</sup>. Each hard link shares the same ownership, permissions and ACLs as the original file, which can be an advantage or a disadvantage depending on the use case<sup>2</sup>. There is no such thing as suh1, and users other than root can create hard links as long as they have write permission on the directory where the link is created<sup>3</sup>. When a hard linked file is changed, no copy of the file is created and no additional space is consumed. The changes are reflected on all the hard links pointing to the same inode<sup>4</sup>. References:

\* Linux Essentials - Linux Professional Institute Certification Programs<sup>1</sup>

\* Exam 101 Objectives - Linux Professional Institute<sup>2</sup>

\* Hard links and soft links in Linux explained | Enable Sysadmin<sup>3</sup>

\* Hard Link in Linux: Everything Important You Need to Know<sup>4</sup>

## NEW QUESTION # 109

FILL BLANK

Which command is used to start another command with a given nice level? (Specify ONLY the command without any path or parameters.)

**Answer:**

Explanation:

nice

Which of the following partition types is used for Linux swap spaces when partitioning hard disk drives?

- Answer: E**

In the vi editor, what vi command will copy (but not paste) from the current line at the cursor and the following 16 lines (17 lines total)? Specify the correct vi command without spaces.

Explanation:  
17yy

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