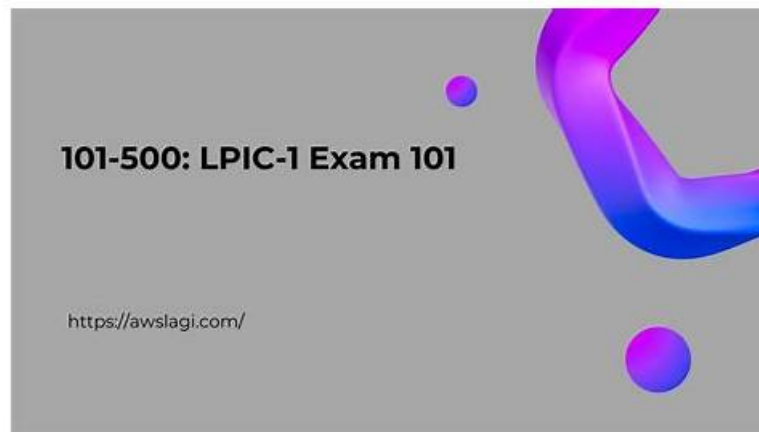


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## 2025 101-500 Latest Exam Notes | The Best 100% Free Hot LPIC-1 Exam 101, Part 1 of 2, version 5.0 Spot Questions

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## Lpi LPIC-1 Exam 101, Part 1 of 2, version 5.0 Sample Questions (Q115-Q120):

### NEW QUESTION # 115

The message "Hard Disk Error" is displayed on the screen during Stage 1 of the GRUB boot process. What does this indicate?

- A. One or more of the filesystems on the hard disk has errors and a filesystem check should be run
- B. The BIOS was unable to read the necessary data from the Master Boot Record to begin the boot process
- C. The kernel was unable to execute /bin/init
- D. The next Stage cannot be read from the hard disk because GRUB was unable to determine the size and geometry of the

disk

**Answer: D**

Explanation:

Explanation

The GRUB boot process consists of three stages<sup>1</sup>:

\* Stage 1: This stage is located in the Master Boot Record (MBR) of the first hard disk or the boot sector of a partition. Its main function is to load either Stage 1.5 or Stage 2.

\* Stage 1.5: This stage is located in the first 30 KB of hard disk immediately following the MBR or in the boot sector of a partition. It contains the code to access the file system that contains the GRUB configuration file. Its main function is to load Stage 2.

\* Stage 2: This stage is located in an ordinary file system, usually in the /boot/grub directory. It contains the code to display the GRUB menu and to load the kernel and initrd images. It can also load additional modules to support other file systems or features<sup>2</sup>. The message "Hard Disk Error" is displayed on the screen during Stage 1 of the GRUB boot process. This indicates that the next Stage (either Stage 1.5 or Stage 2) cannot be read from the hard disk because GRUB was unable to determine the size and geometry of the disk<sup>3</sup>. This could occur because the BIOS translated geometry has been changed by the user or the disk is moved to another machine or controller after installation, or GRUB was not installed using itself (if it was, the Stage 2 version of this error would have been seen during that process and it would not have completed the install)<sup>3</sup>.

The other options in the question are not correct because:

\* A. The kernel was unable to execute /bin/init: This error would occur in Stage 2, after the kernel and initrd images are loaded, not in Stage 1.

\* C. One or more of the filesystems on the hard disk has errors and a filesystem check should be run: This error would also occur in Stage 2, when GRUB tries to access the file system that contains the GRUB configuration file, not in Stage 1.

\* D. The BIOS was unable to read the necessary data from the Master Boot Record to begin the boot process: This error would prevent GRUB from starting at all, not in Stage 1.

References:

1: GRUB - ArchWiki 2: GNU GRUB Manual 0.97 3: Stage1 errors - GNU GRUB Manual 0.97 4: [Kernel panic - Wikipedia] 5: [Stage2 errors - GNU GRUB Manual 0.97] 6: [Master Boot Record - Wikipedia] : How to Fix GRUB Load Errors and Recover Data? - MiniTool Home Data Recovery

## NEW QUESTION # 116

Which run levels should never be declared as the default run level when using SysV init? (Choose TWO correct answers.)

- A. 0
- B. 1
- C. 2
- D. 3
- E. 4

**Answer: A,B**

Explanation:

Run levels are predefined modes of operation in the SysV init system that determine which processes and services are started or stopped. The default run level is the one that the system enters after booting. It is usually specified in the /etc/inittab file with a line like id:5:initdefault:. The run levels 0 and 6 should never be declared as the default run level because they are used to halt and reboot the system, respectively. If they are set as the default, the system will enter an endless loop of shutting down and restarting. The other run levels (1-5) have different meanings depending on the distribution, but they usually correspond to single-user mode, multi-user mode, network mode, graphical mode, etc. References: LPI Linux Essentials - 1.101.2, LPI Linux Administrator - 101.3

## NEW QUESTION # 117

Which of the following commands makes /bin/foo executable by everyone but writable only by its owner?

- A. chmod 775 /bin/foo
- B. chmod o+rx,a+rx /bin/foo
- C. chmod u=rwx,go=rx /bin/foo
- D. chmod 577 /bin/foo

**Answer: C**

### NEW QUESTION # 118

From a Bash shell, which of the following commands directly execute the instructions from the file `/usr/local/bin/runme.sh` without starting a subshell? (Choose two.)

- A. `/bin/bash /usr/local/bin/runme.sh`
- B. `run /usr/local/bin/runme.sh`
- C. `source /usr/local/bin/runme.sh`
- D. `./usr/local/bin/runme.sh`
- E. `/usr/local/bin/runme.sh`

**Answer: C,D**

### NEW QUESTION # 119

What is true regarding UEFI firmware? (Choose two.)

- A. It can use and read certain file systems
- B. It is loaded from a fixed boot disk position
- C. It is stored in a special area within the GPT metadata
- D. It stores its entire configuration on the `/boot/` partition
- E. It can read and interpret partition tables

**Answer: A,B**

Explanation:

UEFI firmware is a software program that provides the interface between the hardware and the operating system on a computer. UEFI stands for Unified Extensible Firmware Interface and it is a replacement for the traditional BIOS (Basic Input/Output System). UEFI firmware has several advantages over BIOS, such as faster boot times, better security, larger disk support, and graphical user interface. Some of the features of UEFI firmware are:

\* It can use and read certain file systems: UEFI firmware can access files on partitions formatted with FAT12, FAT16, or FAT32 file systems. This allows UEFI to load boot loaders, kernels, and configuration files from these partitions without relying on the legacy MBR (Master Boot Record) or boot sector code. UEFI firmware can also support other file systems, such as NTFS or ext4, with additional drivers.

\* It is loaded from a fixed boot disk position: UEFI firmware is stored in a ROM chip on the motherboard, but it also requires a special partition on the boot disk to store additional files and drivers.

This partition is called the EFI System Partition (ESP) and it is usually the first partition on the disk.

The ESP must have a specific GUID (Globally Unique Identifier) and must be formatted with a FAT file system. The UEFI firmware will look for the ESP on the boot disk and load the files from there.

The other options are false or irrelevant. UEFI firmware does not read and interpret partition tables, it relies on the operating system to do that. UEFI firmware does not store its entire configuration on the `/boot/` partition, it stores some of its settings in the NVRAM (Non-Volatile Random Access Memory) on the motherboard and some of its files on the ESP. UEFI firmware is not stored in a special area within the GPT (GUID Partition Table) metadata, it is stored in a ROM chip and an ESP. GPT is a partitioning scheme that supports larger disks and more partitions than the legacy MBR scheme. References:

- \* Linux Essentials - Linux Professional Institute Certification Programs<sup>1</sup>
- \* Exam 101 Objectives - Linux Professional Institute<sup>2</sup>
- \* How to Boot and Install Linux on a UEFI PC With Secure Boot<sup>3</sup>
- \* How to Access UEFI Settings From Linux - It's FOSS<sup>4</sup>
- \* UEFI firmware updates for linux-surface - GitHub<sup>5</sup>

### NEW QUESTION # 120

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