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Lpi LPIC-1 Exam 101, Part 1 of 2, version 5.0 Sample Questions (Q99-Q104):

NEW QUESTION # 99

Which of the following are filesystems which can be used on Linux root partitions? (Choose two.)

- A. NTFS

- B. swap
- C. VFAT
- D. XFS
- E. ext3

Answer: D,E

Explanation:

Explanation

The Linux root partition is the partition that contains the root filesystem, which is the top-level directory of the filesystem hierarchy. The root filesystem contains the essential files and directories that are needed to boot the system, such as the kernel, the init system, the configuration files, the libraries, the binaries, and the device files. The root partition can be formatted with different filesystems, depending on the support of the kernel and the boot loader. Some of the common filesystems that can be used on Linux root partitions are:

* ext3: This is the third extended filesystem, which is a journaling filesystem that provides metadata and data integrity, fast recovery, and backward compatibility with ext2. ext3 is widely supported by most Linux distributions and boot loaders, and it is considered stable and reliable. ext3 has been the default filesystem for many Linux distributions, such as Debian, Ubuntu, Fedora, and CentOS, until it was replaced by ext4.

* XFS: This is a high-performance 64-bit journaling filesystem that supports large files and volumes, parallel I/O, extent-based allocation, and online defragmentation. XFS is designed for scalability and efficiency, and it is suitable for applications that handle large amounts of data, such as databases, video editing, and data warehousing. XFS is the default filesystem for Red Hat Enterprise Linux and SUSE Linux Enterprise Server, and it is also supported by other Linux distributions and boot loaders.

The other options are not valid filesystems for Linux root partitions, because:

* NTFS: This is the New Technology File System, which is the default filesystem for Windows operating systems. NTFS supports features such as journaling, encryption, compression, and access control. NTFS is not natively supported by the Linux kernel, and it requires a third-party driver, such as ntfs-3g, to read and write to NTFS partitions. NTFS is not compatible with the Linux boot loader, and it cannot be used as the root filesystem for Linux.

* VFAT: This is the Virtual File Allocation Table, which is an extension of the FAT32 filesystem that supports long file names.

VFAT is a legacy filesystem that is mainly used for compatibility with older

* Windows and DOS systems. VFAT does not support features such as journaling, permissions, and symbolic links, and it has limitations on the file and volume size. VFAT is not suitable for the root filesystem for Linux, and it is not supported by the Linux boot loader.

* swap: This is not a filesystem, but a special type of partition that is used to store the memory pages that are not currently in use by the system. swap is used to extend the physical memory of the system, and it can improve the performance and stability of the system. swap is not a mountable partition, and it cannot be used as the root filesystem for Linux.

References:

* Linux Filesystems Explained - ext2/3/4, XFS, Btrfs, ZFS

* Linux File Systems: Ext2 vs Ext3 vs Ext4

* What is a Linux SWAP Partition and Why is it Important?

NEW QUESTION # 100

Which of the following kernel parameters instructs the kernel to suppress most boot messages?

- A. silent
- B. verbose=0
- C. quiet
- D. nomsg

Answer: C

Explanation:

The quiet kernel parameter instructs the kernel to suppress most boot messages, except for critical errors¹². The quiet parameter can be added to the GRUB_CMDLINE_LINUX_DEFAULT variable in the /etc/default/grub file and then run sudo update-grub to apply the changes³. The quiet parameter can also be used in combination with other parameters, such as splash, to enable a graphical boot screen⁴.

The other options in the question are not valid or do not have the same functionality as the quiet parameter:

* silent: There is no such kernel parameter in Linux.

* verbose=0: This parameter is used to set the verbosity level of the kernel messages, but it does not suppress them completely. The valid values for this parameter are from 0 (quiet) to 7 (debug)⁵.

* nomsg: This parameter is used to disable all kernel messages on the console, including the emergency ones. This parameter is not

recommended for normal use, as it can hide critical errors and prevent troubleshooting.

:

1: Getting the Kernel Command-Line Parameters | Baeldung on Linux 2: How to mute kernel messages at startup in Arch Linux? 3: boot - How to turn off the filesystem check message which occurs while booting - Ask Ubuntu 4: [How to enable a graphical boot screen on Ubuntu 18.04 LTS - LinuxConfig.org] 5: [Kernel parameters - ArchWiki] : [Linux Kernel Parameters - SysTutorials]

NEW QUESTION # 101

Which of the following commands sets the SetUID permission on the executable /bin/foo?

chmod 4755 /bin/foo

- A. chmod u-s /bin/foo
- B. chmod 2755 /bin/foo
- C. chmod 755+s /bin/foo
- D. **chmod 1755 /bin/foo**

Answer: D

NEW QUESTION # 102

FILL BLANK

Which command displays a list of all background tasks running in the current shell? (Specify ONLY the command without any path or parameters.)

Answer:

Explanation:

jobs

NEW QUESTION # 103

Which command is used to set restrictions on the size of a core file that is created for a user when a program crashes?

- A. **ulimit**
- B. ktrace
- C. core
- D. edquota
- E. quota

Answer: A

NEW QUESTION # 104

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