

Exam Questions 101-500

LPIC-1 Exam 101 - Part 1 of 2 - version 5.0

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NEW QUESTION 1

- (Exam Topic 1)

During a system boot cycle, what program is executed after the BIOS completes its tasks?

- A. The bootloader
- B. The inetd program
- C. The init program
- D. The kernel

Answer: A

NEW QUESTION 2

- (Exam Topic 1)

During a system boot cycle, what is the program that is run after the BIOS completes its tasks?

- A. The bootloader
- B. The inetd program
- C. The init program
- D. The kernel

Answer: A

NEW QUESTION 3

- (Exam Topic 1)

The system is having trouble and the engineer wants to bypass the usual `/sbin/init` start up and run `/bin/sh`. What is the usual way to pass this change to the kernel from your boot loader?

- A. Start in runlevel 1.
- B. Pass `init=/bin/sh` on the kernel parameter line.
- C. Pass `/bin/sh` on the kernel parameter line.
- D. Pass `start=/bin/sh` on the kernel parameter line.

Answer: B

NEW QUESTION 4

- (Exam Topic 1)

Which of the following commands brings a system running SysV init into a state in which it is safe to perform maintenance tasks? (Choose TWO correct answers.)

- A. `shutdown -R 1 now`
- B. `shutdown -single now`
- C. `init 1`
- D. `telinit 1`
- E. `runlevel 1`

Answer: CD

NEW QUESTION 5

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 6

- (Exam Topic 1)

Which of the following are init systems used within Linux systems? (Choose THREE correct answers.)

- A. `startd`
- B. `systemd`
- C. `Upstart`
- D. `SysInit`
- E. `SysV init`

Answer: BCE

NEW QUESTION 7

- (Exam Topic 2)

Which of the following is correct when talking about mount points?

- A. Every existing directory can be used as a mount point.
- B. Only empty directories can be used as a mount point.

- C. Directories need to have the SetUID flag set to be used as a mount point.
- D. Files within a directory are deleted when the directory is used as a mount point.

Answer: A

NEW QUESTION 8

- (Exam Topic 2)

To what environment variable will you assign or append a value if you need to tell the dynamic linker to look in a build directory for some of a program's shared libraries?

- A. LD_LOAD_PATH
- B. LD_LIB_PATH
- C. LD_LIBRARY_PATH
- D. LD_SHARE_PATH
- E. LD_RUN_PATH

Answer: C

NEW QUESTION 9

- (Exam Topic 2)

After modifying GNU GRUB's configuration file, which command must be run for the changes to take effect?

- A. kill -HUP \$(pidof grub)
- B. grub-install
- C. grub
- D. No action is required

Answer: D

NEW QUESTION 10

- (Exam Topic 2)

Which RPM command will output the name of the package which supplied the file /etc/exports?

- A. rpm -F /etc/exports
- B. rpm -qf /etc/exports
- C. rpm -KI /etc/exports
- D. rpm -qp /etc/exports
- E. rpm -qi/etc/exports

Answer: B

NEW QUESTION 10

- (Exam Topic 2)

Which of the following commands overwrites the bootloader located on /dev/sda without overwriting the partition table or any data following it?

- A. dd if=/dev/zero of=/dev/sda bs=512
- B. dd if=/dev/zero of=/dev/sda bs=512 count=1
- C. dd if=/dev/zero of=/dev/sda bs=440 count=1
- D. dd if=/dev/zero of=/dev/sda bs=440

Answer: C

NEW QUESTION 11

- (Exam Topic 2)

Which of the following environment variables overrides or extends the list of directories holding shared libraries?

- A. LD_LOAD_PATH
- B. LD_LIB_PATH
- C. LD_LIBRARY_PATH
- D. LD_SHARE_PATH
- E. LD_RUN_PATH

Answer: C

NEW QUESTION 16

- (Exam Topic 2)

Which file should be edited to select the network locations from which Debian installation package files are loaded?

- A. /etc/dpkg/dpkg.cfg
- B. /etc/apt/apt.conf
- C. /etc/apt/apt.conf.d
- D. /etc/apt/sources.list
- E. /etc/dpkg/dselect.cfg

Answer: D

NEW QUESTION 21

- (Exam Topic 2)

What is the difference between the --remove and the --purge action with the dpkg command?

- A. --remove removes the program, --purge also removes the config files
- B. --remove only removes the program, --purge only removes the config files
- C. --remove removes a package, --purge also removes all packages dependent on it
- D. --remove removes only the package file itself, --purge removes all files related to the package

Answer: A

NEW QUESTION 25

- (Exam Topic 2)

Which of the following commands is used to update the list of available packages when using dpkg based package management?

- A. apt-get update
- B. apt-get upgrade
- C. apt-cache update
- D. apt-get refresh
- E. apt-cache upgrade

Answer: A

NEW QUESTION 30

- (Exam Topic 2)

When removing a package, which of the following dpkg options will completely remove the files including configuration files?

- A. --clean
- B. --delete
- C. --purge
- D. --remove

Answer: C

NEW QUESTION 31

- (Exam Topic 2)

What can the Logical Volume Manager (LVM) be used for? (Choose THREE correct answers.)

- A. To create RAID 9 arrays.
- B. To dynamically change the size of logical volumes.
- C. To encrypt logical volumes.
- D. To create snapshots.
- E. To dynamically create or delete logical volumes.

Answer: BDE

NEW QUESTION 36

- (Exam Topic 2)

Which of the following commands can be used to download the RPM package kernel without installing it?

- A. yum download --no-install kernel
- B. yumdownloader kernel
- C. rpm --download --package kernel
- D. rpmdownload kernel

Answer: B

NEW QUESTION 41

- (Exam Topic 2)

Which of the following commands updates the linker cache of shared libraries?

- A. mkcache
- B. soconfig
- C. mkldconfig
- D. lddconfig
- E. ldconfig

Answer: E

NEW QUESTION 43

- (Exam Topic 3)

Which of the following commands will reduce all consecutive spaces down to a single space?

- A. tr 's' ' ' < a.txt > b.txt
- B. tr -c ' ' < a.txt > b.txt
- C. tr -d ' ' < a.txt > b.txt
- D. tr -r ' '\n' < a.txt > b.txt

E. `tr -s ' ' < a.txt > b.txt`

Answer: E

NEW QUESTION 48

- (Exam Topic 3)

What happens after issuing the command `vi` without any additional parameters?

- A. `vi` starts and loads the last file used and moves the cursor to the position where `vi` was when it last exited.
- B. `vi` starts and requires the user to explicitly either create a new or load an existing file.
- C. `vi` exits with an error message as it cannot be invoked without a file name to operate on.
- D. `vi` starts in command mode and opens a new empty file.
- E. `vi` starts and opens a new file which is filled with the content of the `vi` buffer if the buffer contains text.

Answer: D

NEW QUESTION 49

- (Exam Topic 3)

Which of the following commands will print the last 10 lines of a text file to the standard output?

- A. `cat -n 10 filename`
- B. `dump -n 10 filename`
- C. `head -n 10 filename`
- D. `tail -n 10 filename`

Answer: D

NEW QUESTION 54

- (Exam Topic 3)

Which of the following commands will send output from the program `myapp` to both standard output (`stdout`) and the file `file1.log`?

- A. `cat < myapp | cat > file1.log`
- B. `myapp 0>&1 | cat > file1.log`
- C. `myapp | cat > file1.log`
- D. `myapp | tee file1.log`
- E. `tee myapp file1.log`

Answer: D

NEW QUESTION 59

- (Exam Topic 3)

The `/etc/___` file lists currently mounted devices.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

`mtab`

NEW QUESTION 63

- (Exam Topic 3)

What is the default nice level when a process is started using the `nice` command?

- A. -10
- B. 10
- C. 20

Answer: B

NEW QUESTION 68

- (Exam Topic 3)

Which of the following commands replaces each occurrence of 'bob' in the file `letter` with 'Bob' and writes the result to the file `newsletter`?

- A. `sed '/bob/Bob' letter > newsletter`
- B. `sed s/bob/Bob/ letter < newsletter`
- C. `sed's/bob/Bob' letter > newsletter`
- D. `sed 's/bob/Bob/g' letter > newsletter`
- E. `sed 's/bob, Bob/' letter > newsletter`

Answer: D

NEW QUESTION 69

- (Exam Topic 3)
What is the purpose of the Bash built-in export command?

- A. It allows disks to be mounted remotely.
- B. It runs a command as a process in a subshell.
- C. It makes the command history available to subshells.
- D. It sets up environment variables for applications.
- E. It shares NFS partitions for use by other systems on the network.

Answer: D

NEW QUESTION 73

- (Exam Topic 3)
Which of the following sequences in the vi editor saves the opened document and exits the editor? (Choose TWO correct answers.)

- A. esc ZZ
- B. ctrl :w!
- C. esc zz
- D. esc :wq!
- E. ctrl XX

Answer: AD

NEW QUESTION 76

- (Exam Topic 3)
Which command is used in a Linux environment to create a new directory? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

mkdir, /usr/bin/mkdir

NEW QUESTION 79

- (Exam Topic 3)
Which of the following shell redirections will write standard output and standard error output to a file named filename?

- A. 2>&1 >filename
- B. >filename 2>&1
- C. 1>&2>filename
- D. >>filename
- E. 1&2>filename

Answer: B

NEW QUESTION 81

- (Exam Topic 3)
A user accidentally created the subdirectory \dir in his home directory. Which of the following commands will remove that directory?

- A. rmdir '~\dir'
- B. rmdir "~\dir"
- C. rmdir ~/'dir'
- D. rmdir ~\dir
- E. rmdir ~\dir

Answer: E

NEW QUESTION 82

- (Exam Topic 3)
Which of the following commands kills the process with the PID 123 but allows the process to "clean up" before exiting?

- A. kill -PIPE 123
- B. kill -KILL 123
- C. kill -STOP 123
- D. kill -TERM 123

Answer: D

NEW QUESTION 86

- (Exam Topic 4)
Which of the following commands is used to modify quota settings? (Choose two.)

- A. editquota
- B. setquota
- C. edquota

- D. quotaedit
- E. quotaset

Answer: C

NEW QUESTION 88

- (Exam Topic 4)

Which of the following commands instructs SysVinit to reload its configuration file?

- A. reinit
- B. initreload
- C. telinit 7
- D. telinit q
- E. init reinit

Answer: D

NEW QUESTION 93

- (Exam Topic 4)

In order to display all currently mounted filesystems, which of the following commands could be used? (Choose TWO correct answers.)

- A. cat /proc/self/mounts
- B. free
- C. mount
- D. lsmounts
- E. cat /proc/filesystems

Answer: AC

NEW QUESTION 95

- (Exam Topic 4)

Which command is used to create and initialize the files used to store quota information? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

quotacheck

NEW QUESTION 99

- (Exam Topic 4)

After successfully creating a hard link called bar to the ordinary file foo, foo is deleted from the filesystem. Which of the following describes the resulting situation?

- A. foo and bar would both be removed.
- B. foo would be removed while bar would remain accessible.
- C. foo would be removed
- D. bar would still exist but would be unusable.
- E. Both foo and bar would remain accessible.
- F. The user is prompted whether bar should be removed, too.

Answer: B

NEW QUESTION 101

- (Exam Topic 4)

Which of the following commands will load a kernel module along with any required dependency modules?

- A. depmod
- B. insmod
- C. modprobe
- D. module_install
- E. loadmod

Answer: C

NEW QUESTION 106

- (Exam Topic 4)

What do the permissions -rwsr-xr-x mean for a binary file when it is executed as a command?

- A. The command is SetUID and it will be executed with the effective rights of the owner.
- B. The command will be executed with the effective rights of the group instead of the owner.
- C. The execute flag is not set for the owner
- D. Therefore the SetUID flag is ignored.
- E. The command will be executed with the effective rights of the owner and group.

Answer:

C

NEW QUESTION 109

- (Exam Topic 4)

Which of the following commands enables the setuid (suid) permission on the executable /bin/foo?

- A. chmod 1755 /bin/foo
- B. chmod 4755 /bin/foo
- C. chmod u-s /bin/foo
- D. chmod 755+s /bin/foo

Answer: B

NEW QUESTION 114

- (Exam Topic 4)

Which of the following commands set the sticky bit for the directory /tmp? (Choose TWO correct answers.)

- A. chmod +s /tmp
- B. chmod +t /tmp
- C. chmod 1775 /tmp
- D. chmod 4775 /tmp
- E. chmod 2775 /tmp

Answer: BC

NEW QUESTION 117

- (Exam Topic 4)

Which utility would be used to change how often a filesystem check is performed on an ext2 filesystem without losing any data stored on that filesystem?

- A. mod2fs
- B. fsck
- C. tune2fs
- D. mke2fs
- E. fixe2fs

Answer: C

NEW QUESTION 120

- (Exam Topic 4)

Which of the following Linux filesystems preallocates a fixed number of inodes at the filesystem's make/creation time and does NOT generate them as needed? (Choose TWO correct answers.)

- A. ext3
- B. JFS
- C. ext2
- D. XFS
- E. procfs

Answer: AC

NEW QUESTION 125

- (Exam Topic 4)

Which type of filesystem is created by mkfs when it is executed with the block device name only and without any additional parameters?

- A. ext2
- B. ext3
- C. ext4
- D. XFS
- E. VFAT

Answer: A

NEW QUESTION 130

- (Exam Topic 4)

Which command reads and displays the current contents of the Kernel Ring Buffer on the command line? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

dmesg

NEW QUESTION 131

- (Exam Topic 4)

How many fields are in a syntactically correct line of /etc/fstab?

- A. 3
- B. 4
- C. 5
- D. 6
- E. 7

Answer: D

NEW QUESTION 135

- (Exam Topic 4)

How can the list of files that would be installed by the RPM package file apache.xml.rpm be previewed?

- A. rpm -qp apache.xml.rpm
- B. rpm -qv apache.xml.rpm
- C. rpm -ql apache.xml.rpm
- D. rpm -qpl apache.xml.rpm

Answer: D

NEW QUESTION 138

- (Exam Topic 4)

When using regular expressions, which of the following characters match the beginning of a line?

- A. ^
- B. ?
- C. *
- D. +
- E. \$

Answer: A

NEW QUESTION 142

- (Exam Topic 4)

When planning a partition scheme, which of the following directories could be considered for separate partitions? (Choose three.)

- A. /etc
- B. /home
- C. /var
- D. /lib
- E. /opt

Answer: B

NEW QUESTION 145

- (Exam Topic 4)

Which of the following describes the correct order in which the components of the system boot process are started?

- A. BIOS, kernel, bootloader, init system
- B. BIOS, bootloader, kernel, init system
- C. Bootloader, BIOS, kernel, init system
- D. BIOS, bootloader, init system, kernel
- E. Bootloader, BIOS, init system, kernel

Answer: B

NEW QUESTION 147

- (Exam Topic 4)

What is the purpose of the xargs command?

- A. It passes arguments to an X server.
- B. It reads standard input (STDIN) and builds up command lines to execute.
- C. It helps shellscrips take variable argument lists.
- D. It asks a question, graphically, and returns the answer to the shell.
- E. It allows users to specify long options for commands that normally only accept short options.

Answer: B

NEW QUESTION 148

- (Exam Topic 4)

What does the command grub-install /dev/sda do?

- A. GRUB creates partitions on the device/dev/sdato be used with Linux.
- B. GRUB sets the default BIOS boot device to/dev/sda.

- C. GRUB installs all required files and configures the boot loader on device/dev/sda.
- D. GRUB recompiles the Linux Kernel and installs it on the Master Boot Record of device/dev/sda.

Answer: C

NEW QUESTION 151

- (Exam Topic 4)

Which of the following commands print the current working directory when using a Bash shell? (Choose two.)

- A. echo "\${PWD}"
- B. echo "\${WD}"
- C. pwd
- D. printwd
- E. echo "\${pwd}"

Answer: C

NEW QUESTION 153

- (Exam Topic 4)

Pressing the Ctrl-C combination on the keyboard while a command is executing in the foreground sends which of the following signal codes?

- A. 1(SIGHUP)
- B. 2(SIGINT)
- C. 3(SIGQUIT)
- D. 9(SIGKILL)
- E. 15(SIGTERM)

Answer: B

NEW QUESTION 156

- (Exam Topic 4)

Which chown command will change the ownership to dave and the group to staff on a file named data.txt?

- A. chown dave/staff data.txt
- B. chown -u dave -g staff data.txt
- C. chown --user dave --group staff data.txt
- D. chown dave:staff data.txt

Answer: D

NEW QUESTION 158

- (Exam Topic 4)

Which of the following are modes of the vi editor? (Choose two.)

- A. edit mode
- B. insert mode
- C. change mode
- D. review mode
- E. command mode

Answer: BE

NEW QUESTION 162

- (Exam Topic 4)

Which file in /proc describes the IRQs that are used by various kernel drivers? (Specify the file name only without any path.)

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

interrupts

NEW QUESTION 167

- (Exam Topic 4)

Which file from the /proc file system contains a list of all currently mounted devices? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

mounts

NEW QUESTION 171

- (Exam Topic 4)

Which of the following file permissions belong to a symbolic link?

- A. -rwxrwxrwx
- B. +rwxrwxrwx
- C. lrwxrwxrwx
- D. srwxrwxrwx

Answer: C

NEW QUESTION 176

- (Exam Topic 5)

Which of the following commands displays the path to the executable file that would be executed when the command foo is invoked?

- A. lsattr foo
- B. apropos foo
- C. locate foo
- D. whatis foo
- E. which foo

Answer: A

NEW QUESTION 177

- (Exam Topic 5)

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

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

Answer: BD

NEW QUESTION 182

- (Exam Topic 5)

Which of the following are valid stream redirection operators within Bash? (Choose two.)

- A. <
- B. #>
- C. %>
- D. >>>
- E. 2>&1

Answer: AE

NEW QUESTION 183

- (Exam Topic 5)

Which of the following directories on a 64 bit Linux system typically contain shared libraries? (Choose two.)

- A. ~/.lib64/
- B. /usr/lib64/
- C. /var/lib64/
- D. /lib64/
- E. /opt/lib64/

Answer: AD

NEW QUESTION 185

- (Exam Topic 5)

Which of the following is true when a file system, which is neither listed in /etc/fstab nor known to system, is mounted manually?

- A. systemd ignores any manual mounts which are not done using the systemctl mount command
- B. The command systemctl mountsync can be used to create a mount unit based on the existing mount
- C. systemd automatically generates a mount unit and monitors the mount point without changing it
- D. Unless a systemd mount unit is created, systemd unmounts the file system after a short period of time
- E. systemctl unmount must be used to remove the mount because system opens a file descriptor on the mount point

Answer: B

NEW QUESTION 190

- (Exam Topic 5)

What is contained on the EFI System Partition?

- A. The Linux root file system
- B. The first stage boot loader

- C. The default swap space file
- D. The Linux default shell binaries
- E. The user home directories

Answer: B

NEW QUESTION 192

- (Exam Topic 5)

Which of the following statements are true about the boot sequence of a PC using a BIOS? (Choose two.)

- A. Some parts of the boot process can be configured from the BIOS
- B. Linux does not require the assistance of the BIOS to boot a computer
- C. The BIOS boot process starts only if secondary storage, such as the hard disk, is functional
- D. The BIOS initiates the boot process after turning the computer on
- E. The BIOS is started by loading hardware drivers from secondary storage, such as the hard disk

Answer: AD

NEW QUESTION 194

- (Exam Topic 5)

Which of the following commands changes all CR-LF line breaks in the text file `userlist.txt` to Linux standard LF line breaks and stores the result in `newlist.txt`?

- A. `tr -d '\r' < userlist.txt > newlist.txt`
- B. `tr -c '\n\r' " <newlist.txt> userlist.txt`
- C. `tr '\r\n' " <userlist.txt> newlist.txt`
- D. `tr '\r' '\n' userlist.txt newlist.txt`
- E. `tr -s '/^M/^J/' userlist.txt newlist.txt`

Answer: A

NEW QUESTION 198

- (Exam Topic 5)

What does the command `mount --bind` do?

- A. It makes the contents of one directory available in another directory
- B. It mounts all available filesystems to the current directory
- C. It mounts all user mountable filesystems to the user's home directory
- D. It mounts all file systems listed in `/etc/fstab` which have the option `userbind` set
- E. It permanently mounts a regular file to a directory

Answer: A

NEW QUESTION 202

- (Exam Topic 5)

Which command uninstalls a package but keeps its configuration files in case the package is re-installed?

- A. `dpkg -s pkgname`
- B. `dpkg -L pkgname`
- C. `dpkg -P pkgname`
- D. `dpkg -v pkgname`
- E. `dpkg -r pkgname`

Answer: E

NEW QUESTION 205

- (Exam Topic 5)

What is true regarding the configuration of yum? (Choose two.)

- A. Changes to the repository configuration become active after running `yum confupdate`
- B. Changes to the yum configuration become active after restarting the `yum` service
- C. The configuration of package repositories can be divided into multiple files
- D. Repository configurations can include variables such as `$basearch` or `$releasever`
- E. In case `/etc/yum.repos.d/` contains files, `/etc/yum.conf` is ignored

Answer: DE

NEW QUESTION 209

- (Exam Topic 5)

Which of the following vi commands deletes two lines, the current and the following line?

- A. `d2`
- B. `2d`
- C. `2dd`
- D. `dd2`
- E. `de12`

Answer: C

NEW QUESTION 211

- (Exam Topic 5)

What is true regarding the command

`ls > files`

if files does not exist?

- A. The output of `ls` is printed to the terminal
- B. `files` is created and contains the output of `ls`
- C. An error message is shown and `ls` is not executed
- D. The command `files` is executed and receives the output of `ls`
- E. Any output of `ls` is discarded

Answer: B

NEW QUESTION 216

- (Exam Topic 5)

Which of the following commands displays the output of the `foo` command on the screen and also writes it to a file called `/tmp/foodata`?

- A. `foo | less /tmp/foodata`
- B. `foo | cp /tmp/foodata`
- C. `foo > /tmp/foodata`
- D. `foo | tee /tmp/foodata`
- E. `foo > stdout >> /tmp/foodata`

Answer: D

NEW QUESTION 217

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