

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)

Which of the following statements is correct when talking about /proc/?

- A. All changes to files in /proc/ are stored in /etc/proc.d/ and restored on reboot.
- B. All files within /proc/ are read-only and their contents cannot be changed.
- C. All changes to files in /proc/ are immediately recognized by the kernel.
- D. All files within /proc/ are only readable by the root user.

Answer: C

NEW QUESTION 2

- (Exam Topic 1)

Which command will display messages from the kernel that were output during the normal boot sequence? dmesg, /bin/dmesg

- A. Mastered
- B. Not Mastered

Answer: A

NEW QUESTION 3

- (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 4

- (Exam Topic 1)

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

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

Answer: D

NEW QUESTION 5

- (Exam Topic 1)

The USB device filesystem can be found under /proc/_____/usb/. (Please fill in the blank with the single word only)

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

bus

NEW QUESTION 6

- (Exam Topic 1)

Which file in the /proc filesystem lists parameters passed from the bootloader to the kernel? (Specify the file name only without any path.)

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

cmdline, /proc/cmdline

NEW QUESTION 7

- (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 8

- (Exam Topic 2)

Which command will disable swapping on a device? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

swapoff, /sbin/swapoff

NEW QUESTION 9

- (Exam Topic 2)

The dpkg-_____ command will ask configuration questions for a specified package, just as if the package were being installed for the first time.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

reconfigure

NEW QUESTION 10

- (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 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 14

- (Exam Topic 2)

Typically, which top level system directory is used for files and data that change regularly while the system is running and are to be kept between reboots? (Specify only the top level directory)

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

/var, /var/, var, var/

NEW QUESTION 17

- (Exam Topic 2)

Which of the following commands can be used to perform a full text search on all available packages on a Debian system?

- A. apt
- B. apt-cache
- C. apt-get
- D. apt-search
- E. dpkg

Answer: B

NEW QUESTION 19

- (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 24

- (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 27

- (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 28

- (Exam Topic 3)

Which variable defines the directories in which a Bash shell searches for executable commands?

- A. BASHEXEC
- B. BASHRC
- C. PATH
- D. EXECPATH
- E. PATHRC

Answer: C

NEW QUESTION 32

- (Exam Topic 3)

Which of the following commands moves and resumes in the background the last stopped shell job?

- A. run
- B. bg
- C. fg
- D. back

Answer: B

NEW QUESTION 37

- (Exam Topic 3)

In compliance with the FHS, in which of the directories are man pages found?

- A. /usr/share/man
- B. /opt/man
- C. /usr/doc/
- D. /var/pkg/man
- E. /var/man

Answer: A

NEW QUESTION 39

- (Exam Topic 3)

Which of the following commands prints a list of usernames (first column) and their primary group (fourth column) from the /etc/passwd file?

- A. fmt -f 1,4 /etc/passwd
- B. split -c 1,4 /etc/passwd

- C. cut -d : -f 1,4 /etc/passwd
- D. paste -f 1,4 /etc/passwd

Answer: C

NEW QUESTION 41

- (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 45

- (Exam Topic 3)

Which shell command is used to continue background execution of a suspended command?

- A. &
- B. bg
- C. cont
- D. exec
- E. :&

Answer: B

NEW QUESTION 49

- (Exam Topic 3)

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

jobs

NEW QUESTION 52

- (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 57

- (Exam Topic 3)

What does the + symbol mean in the following grep regular expression: grep '^d[aei]\+d\$' /usr/share/dict/words

- A. Match the preceding character set ([aei]) one or more times.
- B. Match the preceding character set ([aei]) zero or more times.
- C. Match the preceding character set ([aei]) zero or one times.
- D. Match a literal + symbol.

Answer: A

NEW QUESTION 59

- (Exam Topic 3)

Which of the following command sets the Bash variable named TEST with the content FOO?

- A. set TEST="FOO"
- B. TEST = "FOO"
- C. var TEST="FOO"
- D. TEST="FOO"

Answer: D

NEW QUESTION 60

- (Exam Topic 3)

Which character, added to the end of a command, runs that command in the background as a child process of the current shell?

- A. !
- B. +
- C. &
- D. %
- E. #

Answer: C

NEW QUESTION 64

- (Exam Topic 4)

Which of the following commands will change all CR-LF pairs in an imported text file, `userlist.txt`, to Linux standard LF characters and store it as `newlist.txt`?

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

Answer: C

NEW QUESTION 69

- (Exam Topic 4)

Which of the following commands is used to change metadata and options for ext3 filesystems?

- A. `mod3fs`
- B. `tune3fs`
- C. `mod2fs`
- D. `tune2fs`
- E. `dump2fs`

Answer: D

NEW QUESTION 73

- (Exam Topic 4)

What does the command `mount -a` do?

- A. It mounts all available filesystems onto the current directory.
- B. It shows all mounted filesystems.
- C. It mounts all user mountable filesystems for the current user.
- D. It mounts all filesystems listed in `/etc/fstab` which have the option `auto` set.
- E. It mounts all filesystems listed in `/etc/fstab` which have the option `noauto` set.

Answer: D

NEW QUESTION 75

- (Exam Topic 4)

Which of the following settings for `umask` ensures that new files have the default permissions `-rw-r-----` ?

- A. `0017`
- B. `0640`
- C. `0038`
- D. `0027`

Answer: D

NEW QUESTION 77

- (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 82

- (Exam Topic 4)

In Bash, inserting `2>&1` after a command redirects:

- A. standard error to standard input.
- B. standard input to standard error.

- C. standard output to standard error.
- D. standard error to standard output.
- E. standard output to standard input.

Answer: C

NEW QUESTION 83

- (Exam Topic 4)

What is the purpose of the Filesystem Hierarchy Standard?

- A. It is a security model used to ensure files are organized according to their permissions and accessibility.
- B. It provides unified tools to create, maintain and manage multiple filesystems in a common way.
- C. It defines a common internal structure of inodes for all compliant filesystems.
- D. It is a distribution neutral description of locations of files and directories.

Answer: D

NEW QUESTION 85

- (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 88

- (Exam Topic 4)

Which command is used to query information about the available packages on a Debian system?

- A. `apt-cache`
- B. `apt-get`
- C. `apt-search`
- D. `dpkg`
- E. `dpkg-search`

Answer: A

NEW QUESTION 90

- (Exam Topic 4)

Which of the following commands changes the ownership of file.txt to the user dan and the group staff?

- A. `chown dan/staff file.txt`
- B. `chown dan:staff file.txt`
- C. `chown -u dan -g staff file.txt`
- D. `chown dan -g staff file.txt`

Answer: B

NEW QUESTION 95

- (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 100

- (Exam Topic 4)

Which of the following commands changes all occurrences of the word "bob" in file data to "Bob" and prints the result to standard output?

- A. `sed '/bob/Bob' data`
- B. `sed 's/bob/Bob/g' data`
- C. `sed 's/bob/Bob/' data`
- D. `sed '/bob/Bob/' data`
- E. `sed 's/bob,Bob/' data`

Answer: B

NEW QUESTION 104

- (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 106

- (Exam Topic 4)

Creating a hard link to an ordinary file returns an error. What could be the reason for this?

- A. The source file is hidden.
- B. The source file is read-only.
- C. The source file is a shell script.
- D. The source file is already a hard link.
- E. The source and the target are on different filesystems.

Answer: E

NEW QUESTION 109

- (Exam Topic 4)

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

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

Answer: A

NEW QUESTION 112

- (Exam Topic 4)

Where does the BIOS search for a bootloader?

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

Answer: B

NEW QUESTION 117

- (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 shellscripts 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 118

- (Exam Topic 4)

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

- A. 82
- B. 83
- C. 8e
- D. fd
- E. 7

Answer: B

NEW QUESTION 123

- (Exam Topic 4)

Instead of supplying an explicit device in /etc/fstab for mounting, what other options may be used to identify the intended partition? (Choose TWO correct answers.)

- A. FIND

- B. ID
- C. LABEL
- D. NAME
- E. UUID

Answer: CE

NEW QUESTION 124

- (Exam Topic 4)

In compliance with the FHS, in which of the following directories are documentation files found?

- A. /usr/share/documentation
- B. /usr/local/share/documentation
- C. /var/share/doc
- D. /usr/share/doc
- E. /etc/share/doc

Answer: C

NEW QUESTION 126

- (Exam Topic 4)

Which signal is sent by the kill command by default?

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

Answer: D

NEW QUESTION 127

- (Exam Topic 4)

Which program updates the database that is used by the locate command?

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

updatedb

NEW QUESTION 132

- (Exam Topic 4)

When piping the output of find to the xargs command, what option to find is useful if the filenames have spaces in them?

- A. -rep-space
- B. -print0
- C. -nospace
- D. -ignore-space

Answer: B

NEW QUESTION 136

- (Exam Topic 4)

What does the command mount -a do?

- A. It ensures that all file systems listed with the option noauto in /etc/fstab are mounted.
- B. It shows all mounted file systems that have been automatically mounted.
- C. It opens an editor with root privileges and loads /etc/fstab for editing.
- D. It ensures that all file systems listed with the option auto in /etc/fstab are mounted.
- E. It ensures that all file systems listed in /etc/fstab are mounted regardless of their options.

Answer: D

NEW QUESTION 140

- (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 145

- (Exam Topic 4)

Which of the following commands can be used to display the inode number of a given file?

- A. inode
- B. ls
- C. ln
- D. cp

Answer: B

NEW QUESTION 148

- (Exam Topic 4)

Which of the following commands shows the definition of a given shell command?

- A. where
- B. stat
- C. type
- D. case

Answer: C

NEW QUESTION 153

- (Exam Topic 4)

Which of the following apt-get commands will install the newest versions of all currently installed packages?

- A. auto-update
- B. full-upgrade
- C. dist-upgrade
- D. install
- E. update

Answer: C

NEW QUESTION 157

- (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 159

- (Exam Topic 4)

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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

17yy

NEW QUESTION 160

- (Exam Topic 4)

Which command shows all shared libraries required by a binary executable or another shared library? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

ldd

NEW QUESTION 164

- (Exam Topic 4)

Which of the following commands creates an ext3 filesystem on /dev/sdb1? (Choose TWO correct answers.)

- A. /sbin/mke2fs -j /dev/sdb1
- B. /sbin/mkfs -t ext3 /dev/sdb1
- C. /sbin/mkfs -c ext3 /dev/sdb1
- D. /sbin/mke3fs -j /dev/sdb1

Answer: AB

NEW QUESTION 166

- (Exam Topic 4)

Which of the following commands updates the already installed RPM package rpmname?

- A. rpm --update rpmname
- B. rpm -U rpmname
- C. rpm -q rpmname
- D. rpm --force rpmname
- E. rpm -u rpmname

Answer: B

NEW QUESTION 167

- (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 170

- (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 171

- (Exam Topic 5)

Which of the following properties of a Linux system should be changed when a virtual machine is cloned? (Choose two.)

- A. The partitioning scheme
- B. The file system
- C. The D-Bus Machine ID
- D. The permissions of /root/
- E. The SSH host keys

Answer: DE

NEW QUESTION 175

- (Exam Topic 5)

Which of the following commands lists the dependencies of the RPM package file foo.rpm?

- A. rpm -qpR foo.rpm
- B. rpm -dep foo
- C. rpm -ld foo.rpm
- D. rpm -R foo.rpm
- E. rpm -pD foo

Answer: A

NEW QUESTION 180

- (Exam Topic 5)

Which command displays the current disk space usage for all mounted file systems? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

du

NEW QUESTION 183

- (Exam Topic 5)

Which of the following commands installs all packages with a name ending with the string foo?

- A. zypper get "**foo"
- B. zypper update "foo?"
- C. zypper force "foo*"
- D. zypper install "**foo"
- E. zypper add ".*foo"

Answer: D

NEW QUESTION 186

- (Exam Topic 5)

What output will be displayed when the user fred executes the following command? echo 'fred \$USER'

- A. fred fred
- B. fred /home/fred/
- C. 'fred \$USER'
- D. fred \$USER
- E. 'fred fred'

Answer: A

NEW QUESTION 188

- (Exam Topic 5)

Consider the following output from the command ls -li:

```
525385 -rw-rw-r-- 2 1000 1000 0 Feb 12 19:44 a.txt
526255 lrwxrwxrwx 1 1000 1000 5 Feb 12 19:44 b.txt -> a.txt
```

How would a new file named c.txt be created with the same inode number as a.txt (Inode 525385)?

- A. ln -h a.txt c.txt
- B. ln c.txt a.txt
- C. ln a.txt c.txt
- D. ln -f c.txt a.txt
- E. ln -i 525385 c.txt

Answer: C

NEW QUESTION 190

- (Exam Topic 5)

What is the first program the Linux kernel starts at boot time when using System V init?

- A. /lib/init.so
- B. /proc/sys/kernel/init
- C. /etc/rc.d/rcinit
- D. /sbin/init
- E. /boot/init

Answer: D

NEW QUESTION 192

- (Exam Topic 5)

Which of the following files, located in a user's home directory, contains the Bash history?

- A. .bashrc_history
- B. .bash_histfile
- C. .history
- D. .bash_history
- E. .history_bash

Answer: B

NEW QUESTION 197

- (Exam Topic 5)

Which of the following commands list all files and directories within the /tmp/ directory and its subdirectories which are owned by the user root? (Choose two.)

- A. find /tmp -user root -print
- B. find -path /tmp -uid root
- C. find /tmp -uid root -print
- D. find /tmp -user root
- E. find -path /tmp -user root -print

Answer: AE

NEW QUESTION 201

- (Exam Topic 5)

Which of the following commands redirects the output of ls to standard error?

- A. ls >-1
- B. ls <<ERR
- C. ls >&2
- D. ls >>2
- E. ls |error

Answer: C

NEW QUESTION 206

- (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 209

- (Exam Topic 5)

The command dbmaint & was used to run dbmaint in the background. However, dbmaint is terminated after logging out of the system. Which alternative dbmaint invocation lets dbmaint continue to run even when the user running the program logs out?

- A. job -b dbmaint
- B. dbmaint &>/dev/pts/null
- C. nohup dbmaint &
- D. bg dbmaint
- E. wait dbmaint

Answer: D

NEW QUESTION 214

When in Normal mode in vi, which character can be used to begin a reverse search of the text?

- A. A.?B./C.FD.r

Answer: A

NEW QUESTION 219

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