

## LX0-101 V9.02\_formatted

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Exam : LX0-101

Title : CompTIA Linux+ [Powered  
by LPI] Exam 1

Version : V9.02

## Exam A

### QUESTION 1

An administrator is planning a partition scheme for a new Linux installation. Which of the following directories should the administrator consider for separate partitions? (Select THREE).

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

**Correct Answer:** BCE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 2

Which of the following 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.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 3

Which of the following is the process ID number of the init program?

- A. -1
- B. 0
- C. 1
- D. It is different with each reboot.
- E. It is set to the current run level.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 4

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

- A. 1 (SIGHUP)

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 5**

To what environment variable will an administrator assign or append a value if the administrator needs 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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 6**

An administrator has just added a CD-ROM drive (/dev/hdd) to a system and added it to the administrator's fstab.

Typically the administrator can use which of the following commands to mount media in that drive to /mnt/cdrom?

- A. mount /dev/cdrom /mnt/cdrom
- B. mount /dev/cdrom
- C. mount -t cdrom /dev/cdrom /mnt/cdrom
- D. mount /mnt/cdrom
- E. automount /mnt/hdd /mnt/cdrom}

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 7**

An administrator wishes to kill a process with a PID of 123. Which of the following commands will allow the process to "clean up" before exiting?

- A. kill -1 123
- B. kill -9 123
- C. kill -15 123

D. kill -17 123

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 8

CORRECT TEXT

What command with all options and/or parameters will send the signal USR1 to any executing process of program apache2?



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A.

B.

C.

D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Answer: KILLALL-SIGUSR1APACHE2,KILLALL-SUSR1APACHE2,KILLALL- SIGUSR1APACHE2,KILLALL-USR1APACHE2

#### QUESTION 9

All of the following commands will update the Modify timestamp on the file /tmp/myfile.txt EXCEPT:

A. file /tmp/myfile.txt

B. echo "Hello" >/tmp/myfile.txt

C. sed -ie "s/1/2/" /tmp/myfile.txt

D. echo -n "Hello" >/tmp/myfile.txt

E. touch /tmp/myfile.txt

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 10

In the vi editor, which of the following commands will delete the current line at the cursor and the 16 lines following it (17 lines total)?

A. 17d

- B. 17dd
- C. 17x
- D. d17d
- E. 16d

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 11**

**CORRECT TEXT**

The system configuration file named \_\_\_\_\_ is commonly used to set the default runlevel. (Please provide the full name with full path information).

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Answer: /ETC/INITTAB

#### **QUESTION 12**

In compliance with the FHS, in which of the following places are man pages typically found?

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 13**

The lspci command can display information about devices EXCEPT:

- A. card bus speed (e.g. 66Mhz).
- B. card IRQ settings.
- C. card vendor identification.
- D. card AGP rate (e.g. 1x, 2x, 4x).
- E. card Ethernet MAC address.

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 14**

Which of the following command lines would an administrator use to restrict the GNU find command to searching a particular number of subdirectories?

- A. --max-dirs
- B. -dirmax
- C. -maxdepth
- D. -s
- E. -n

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 15**

An administrator is looking for an executable file foo.

Which of the following commands would search for foo within directories set in the shell variable, PATH?

- A. locate
- B. which
- C. find
- D. query
- E. whereis

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 16**

CORRECT TEXT

In which directory must definition files be placed to add additional repositories to yum?

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Answer: /ETC/YUM.REPOS.D,/ETC/YUM.REPOS.D/,YUM.REPOS.D,YUM.REPOS.D/

#### QUESTION 17

Which of the following commands will allow an administrator to adjust the number of mounts after which an existing filesystem will be checked by e2fsck?

- A. debugfs
- B. dumpe2fs
- C. mode2fs
- D. tune2fs
- E. mke2fs

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 18

Which of the following directories contains additional information about installed packages?

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 19

Which of the following Linux filesystems pre-allocates a fixed number of inodes at filesystems make/creation time, and does NOT generate them as needed?

- A. ext3
- B. jfs
- C. reiserfs
- D. xfs

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 20

CORRECT TEXT

An administrator has sent their current vi process with a PID of 1423 to the background on the command line. Assuming no other processes are in the background, what single command with no options or parameters will bring the vi process to the foreground?

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 21**

An administrator is having some trouble with a disk partition and needs to do maintenance on this partition. The administrator's users home directories are on it and several are logged in. Which of the following commands would disconnect the users and allow the administrator to safely execute maintenance tasks?

- A. telinit 1
- B. shutdown -r now
- C. killall -9 inetd
- D. /bin/netstop --maint
- E. /etc/rc.d/init.d/network stop

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 22**

**CORRECT TEXT**

Which command will display messages from the kernel that were output during the normal bootup sequence? (Please enter only a single command and do not enter duplicate answers in this field.)

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Answer: /BIN/DMESG,DMESG

#### **QUESTION 23**

**CORRECT TEXT**

What file contains kernel level logging information such as output from a network driver module when it is loaded? (Please enter only a single command and do not enter duplicate answers in this field.)

- A.
- B.



- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Answer: /VAR/LOG/KERN.LOG,/VAR/LOG/MESSAGES,KERN.LOG,MESSAGES

#### **QUESTION 24**

**CORRECT TEXT**

What file in the /proc filesystem lists parameters passed from the bootloader to the kernel? (Please enter only a single command and do not enter duplicate answers in this field.)

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Answer: /PROC/CMDLINE,CMDLINE

#### **QUESTION 25**

Which of the following Debian package system commands will list all partially installed packages and suggest how to get them correctly installed?

- A. dpkg -C
- B. apt-get -u
- C. dpkg -Dh
- D. dpkg -l
- E. apt-get -y

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 26**

**CORRECT TEXT**

What command is used to display a file in octal format? (Please enter only a single command and do not enter duplicate answers in this field.)

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Answer: /USR/BIN/HEXDUMP,/USR/BIN/OD,HEXDUMP,OD

**QUESTION 27**

CORRECT TEXT

What option, when passed to the yum command, will update the entire system? (Specify ONLY the option name with no additional parameters).

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Answer: UPDATE

**QUESTION 28**

The message "Hard Disk Error" is displayed on the screen during Stage 1 of the GRUB boot process. Which of the following 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

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 29**

CORRECT TEXT

What is the name of the main configuration file for GRUB? (Please specify the file name with no path information).

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Answer: GRUB.CFG,GRUB.CONF,MENU.LST

**QUESTION 30**

An administrator wants the default permissions for their files to be -rw-r-----. How must the administrator set umask?

- A. 037
- B. 640
- C. 038
- D. 027

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 31**

An administrator is writing text in vi. Now the administrator wants to save their changes and exit. Which of the following sequence of inputs will accomplish this? (Select TWO).

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

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 32**

While editing a file in vi, an administrator realizes that the wrong file is being changed. Which of the following vi command sequences will allow the administrator to quit without saving any changes?

- A. :Q!
- B. :q!
- C. :w!
- D. :wq!

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 33**

In the command `foo < bar | foobar`, which of the following statements is correct?

- A. The stdout from the command foobar is saved to the file foo.
- B. The stdout from the command foo is saved to the file foobar.

- C. The command foobar receives its stdin from the stderr of foo.
- D. The command foobar receives its stdin from the stdout of foo.
- E. The command bar receives its stdin from the contents of the file foobar.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 34

Which of the following is the output when the below shell script executes? `cat <<foobar Hello foobar foobar`

- A. The contents of the file foobar
- B. Hello
- C. No output but a file named foobar is created
- D. Hello foobar
- E. Hello foobar foobar

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 35

All of the following commands will execute the bash script `/usr/local/bin/runme.sh` EXCEPT:

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

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 36

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`

**Correct Answer:** C

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 37**

Bob accidentally created the subdirectory \bobsdir in his home directory. He tried to remove the subdirectory with the command rmdir \bobsfile only to receive the error, "No such file or directory." . Which of the following commands will remove the directory?

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

**Correct Answer: E**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 38**

**CORRECT TEXT**

An administrator has issued the following command: grub-install --root-directory=/custom-grub /dev/sda In which directory will the new menu.lst file be found? (Provide the full directory path only without the filename).

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Answer: /CUSTOM-GRUB/BOOT/GRUB,/CUSTOM-GRUB/BOOT/GRUB/

**QUESTION 39**

Many people like the vi text editor but the default bash command line editor recognizes emacs keystrokes. Which of the following commands, entered into a bash initialization file, will have bash recognize vi keystrokes after login?

- A. history -p vi
- B. alias emacs=vi
- C. HISTCMD=vi
- D. set -o vi
- E. unset emacs

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 40**

Which of the following does the Filesystem Hierarchy Standard enable? (Select TWO).

- A. Software to predict the location of installed files and directories.
- B. Software to predict the ownership and access rights to files and directories.
- C. Users to predict the location of installed files and directories.
- D. Users to predict how the filesystem should be formatted according to need.

**Correct Answer: AC**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 41**

Which of the following chown commands will change the ownership to foo and the group to bar on a file named biglist?

- A. chown foo/bar biglist
- B. chown -u foo -g bar biglist
- C. chown foo:bar biglist
- D. chown --user foo --group bar biglist

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 42**

To allow a regular user account to mount and unmount a filesystem (for instance, a cdrom or floppy), which of the following options will need to be added to the corresponding line in /etc/fstab?



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- A. nouidchk
- B. alluser
- C. user
- D. auto

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 43**

An administrator is trying to make a hard link to an ordinary file but ln returns an error. Which of the following could cause this?

- A. The source file is hidden.
- B. The source file is read-only.
- C. The source file is a shell script.
- D. The administrator does not own the source file.
- E. The source and the target are on different filesystems.

**Correct Answer: E**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 44**

Which of the following commands will print to standard out only the lines that do not begin with # (pound symbol) in the file foobar?

- A. /bin/grep ^# foobar
- B. /bin/grep -v ^# foobar
- C. /bin/grep # \$ foobar
- D. /bin/grep -v # \$ foobar

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 45**

For which of the following can the tee command be used?

- A. Print the contents of a file in reverse order.
- B. Use the output of one command as arguments to another.
- C. Add line numbers to the output of a command.
- D. Pipe the output of one command into the input of another.
- E. Send a command's output to stdout and a to file at the same time.

**Correct Answer: E**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 46**

CORRECT TEXT

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

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Answer: RECONFIGURE

#### **QUESTION 47**

**CORRECT TEXT**

Which command is used to enable disk quotas on a particular filesystem? (Provide only the command, with no options or parameters)

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Answer: /SBIN/QUOTAON,QUOTAON

#### **QUESTION 48**

**CORRECT TEXT**

An administrator has downloaded an image file of a boot floppy disk to a hard drive. What is the BEST utility to create a boot floppy from the disk image? (Specify a single command without options.)

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Answer: /BIN/DD,DD

#### **QUESTION 49**

In bash, inserting 1>&2 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.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 50**

An administrator has created a really long letter and after the administrator is done, notices that the name "Bob" has been used many times. The administrator forgot to capitalize it in many instances. Which of the following commands would replace "bob" with "Bob" in all instances and generate a new letter for printing?

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 51**

Which of the following commands will create an ext3 filesystem on /dev/hda2?

- A. /sbin/mke2fs -d /dev/hda2
- B. /sbin/mke2fs -j /dev/hda2
- C. /sbin/mke2fs -m 3 /dev/hda2
- D. /sbin/mke2fs -c ext3 /dev/hda2

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 52**

Which of the following is the default process priority when a process is started using the nice command?

- A. -10
- B. 10
- C. 20
- D. 0

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 53**

Which of the following RPM commands will output the name of the package which installed 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

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 54**

Which of the following commands will print a list of usernames (first column) and their corresponding user id (uid, third column) from /etc/passwd?

- A. cut -d: -f1,3 /etc/passwd
- B. chop -c 1,3 /etc/passwd
- C. tac 1-3 /etc/passwd
- D. fmt -u /etc/passwd

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 55**

CORRECT TEXT

The /etc/\_\_\_\_\_ file lists currently mounted devices.

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 56**

Which of the following commands will print the inode usage on each mounted filesystem?

- A. du -i
- B. df -i
- C. lsfs -i
- D. printfs -i

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 57**

**CORRECT TEXT**

To prevent users from being able to fill up the / partition, the \_\_\_\_\_ directory should be on a separate partition if possible because it is world writeable.

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Answer: /TMP,TMP

#### **QUESTION 58**

**CORRECT TEXT**

The priority of any process can range from -20 to \_\_\_\_\_. (Provide only the numerical value).

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 59**

Which of the following is true when hard-linked files are present?

- A. The output of stat will report "hard" instead of "regular file"
- B. The hard-linked files may not be empty
- C. Both files will share the same inode
- D. Issuing a long directory listing with ls -l will indicate the link with "->"
- E. The file permissions will be prefixed by an "h", eg. hrwxr-x-r-x

**Correct Answer:** C

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 60**

Which of the following files 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

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 61**

**CORRECT TEXT**

\_\_\_\_\_ /dev/sda3 will create a swap area on the device /dev/sda3.

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Answer: /sbin/mkswap,mkswap

**QUESTION 62**

Which of the following commands will print to standard out only the lines that do not begin with # (pound symbol) in the file foobar?

- A. /bin/grep ^# foobar
- B. /bin/grep -v ^# foobar
- C. /bin/grep #\$ foobar
- D. /bin/grep -v #\$ foobar

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 63**

Which of the following directories contains additional information about installed packages?

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 64**

Given the following output: prompt> myapp [1]+ Stopped myapp prompt> Which of the following commands will resume executing the stopped process while allowing the user to continue to type commands at the command prompt?

- A. bg myapp
- B. continue myapp
- C. exec myapp
- D. fg myapp
- E. myapp &

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 65**

Which of the following utilities would an administrator use to change how often a filesystem check was performed over an EXT2 filesystem (without losing any data stored on that filesystem)?

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 66**

Which of the following is the proper device for the third partition, on the second hard disk, on the first IDE controller, on a PC system?

- A. /dev/hdb3

- B. /dev/hd1b3
- C. /dev/hdc1b3
- D. /dev/hdc1d2p3

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 67**

Which of the following commands is used to dump files in octal format?

- A. od
- B. octdump
- C. dumpoct
- D. cat -o

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 68**

CORRECT TEXT

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

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 69**

Which of the following configuration files should be modified to disable the ctrl-alt-delete key combination?

- A. /etc/keys
- B. /proc/keys
- C. /etc/inittab
- D. /proc/inittab
- E. /etc/reboot

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 70**

All of the following commands will update the Modify timestamp on the file /tmp/myfile.txt EXCEPT:

- A. file /tmp/myfile.txt
- B. echo "Hello" >/tmp/myfile.txt
- C. sed -ie "s/1/2/" /tmp/myfile.txt
- D. echo -n "Hello" >/tmp/myfile.txt
- E. touch /tmp/myfile.txt

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 71**

While editing a file in vi, an administrator realizes that the wrong file is being changed. Which of the following vi command sequences will allow the administrator to quit without saving any changes?

- A. :Q!
- B. :q!
- C. :w!
- D. :wq!

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 72**

To allow a regular user account to mount and unmount a filesystem (for instance, a cdrom or floppy), which of the following options will need to be added to the corresponding line in /etc/fstab?

- A. nouidchk
- B. alluser
- C. user
- D. auto

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 73**

Which of the following commands will print a list of usernames (first column) and their corresponding user id (uid, third column) from /etc/passwd?

- A. `cut -d: -f1,3 /etc/passwd`
- B. `chop -c 1,3 /etc/passwd`
- C. `tac 1-3 /etc/passwd`
- D. `fmt -u /etc/passwd`

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 74

CORRECT TEXT

The priority of any process can range from -20 to \_\_\_\_\_. (Provide only the numerical value).

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 75

CORRECT TEXT

An administrator has written a custom tool on their local system. Following the Filesystem Hierarchy Standard (FHS), where should the administrator install the binaries to be available to all users on the administrator's system?

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Answer: /usr/local/bin,/usr/local/bin/

#### QUESTION 76

Which of the following would be accomplished if the below line is run as root? `chown -R bert /home/bert/*`

- A. Nothing, this command is invalid.
- B. It would revoke bert's ownership from the home directory to root.
- C. It would change user ownership of all files in /home/bert to bert.
- D. It would set the group ownership of the directory /home/bert to bert.
- E. It would set ownership of all files and subdirectories in /home/bert to bert.



**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 77**

**CORRECT TEXT**

An administrator wants to display all currently mounted file systems. Which command would be used? (Please enter only a single command without arguments or options).

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Answer: /BIN/DF,/BIN/MOUNT,DF,MOUNT

#### **QUESTION 78**

**CORRECT TEXT**

Upon booting a Linux box, an administrator notices a message scrolling by that does not look right, but it goes by so fast, the administrator does not have a chance to read it. What command could the administrator use to view that message after the boot process completes? (Please enter only a single command and do not enter duplicate answers in this field.)

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Answer: /BIN/DMESG,DMESG

#### **QUESTION 79**

In GRUB's configuration file an administrator finds the following line: root (hd1,4) Which of the following is the corresponding device name on a Linux system?

- A. /dev/hda4
- B. /dev/hda5
- C. /dev/hdb4
- D. /dev/hdb5

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 80**

CORRECT TEXT

What option, when passed to the yum command, will update the entire system? (Specify ONLY the option name with no additional parameters).

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Answer: UPDATE

**QUESTION 81**

An administrator wants to preview where the package file, apache.xml.i386.rpm, will install its files before installing it.

Which of the following commands should the administrator issue?

- A. rpm -qp apache.xml.i386.rpm
- B. rpm -qv apache.xml.i386.rpm
- C. rpm -ql apache.xml.i386.rpm
- D. rpm -qpl apache.xml.i386.rpm

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 82**

CORRECT TEXT

What command will print the shared libraries for the file /usr/lib/libpng12.so? (Provide the full command with library name but without any other options or parameters).

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Answer: /USR/BIN/LDD/USR/LIB/LIBPNG12.SO,LDD/USR/LIB/LIBPNG12.SO

**QUESTION 83**

CORRECT TEXT

What umask value will result in the default access permissions of 600 (rw-----) for files and 700 (rwx-----) for directories? (Provide only the numerical umask value).

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 84**

In order to append the output of ls to a file called bazz, which of the following command lines would an administrator use?

- A. ls > bazz
- B. ls >& bazz
- C. ls &> bazz
- D. ls >> bazz

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 85**

After modifying LILO's configuration file, which of the following commands should be run for the changes to take effect?

- A. kill -HUP `pidof lilo`
- B. lilo-install
- C. lilo
- D. reboot

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 86**

Which of the following sed commands will replace all instances of the string foo with the string foobar changing the file file1.txt in place?

- A. sed 's/foo/foobar/g' file1.txt
- B. sed 's/foo/foobar/g' file1.txt > file1.txt
- C. sed 's/foo/foobar/g' file1.txt | file1.txt
- D. sed -i 's/foo/foobar/g' file1.txt

E. `sed -i 's/foo/foobar/g' file1.txt > file1.txt`

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 87

CORRECT TEXT

An administrator is formatting a single hard disk for a Linux install. What is the maximum number of primary partitions that can be created?

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**



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#### QUESTION 88

CORRECT TEXT

Which program finds only files that are in an administrator's PATH?

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Answer: /USR/BIN/WHICH,WHICH

#### QUESTION 89

Which of the following keys should an administrator press to switch to normal mode in vi?

- A. Alt
- B. Esc
- C. Ctrl

D. Shift

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 90**

CORRECT TEXT

Which command will disable paging and swapping on a device? (Provide only the command with no additional options or parameters).

A.

B.

C.

D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Answer: /SBIN/SWAPOFF,SWAPOFF

**QUESTION 91**

Which of the following commands will print line numbers before each line in a file?

A. ln

B. nl

C. cat -e

D. numline

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 92**

To ensure that a running process continue to execute after you log out, the process should be started with which of the following commands?

A. nohup

B. fg

C. live

D. sh

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 93**

The system is having trouble and the engineer wants to bypass the usual /sbin/init start up and run /bin/sh. Which of the following is the usual way to pass this change to the kernel from the 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.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 94**

Which of the following does the command mount -a do?

- A. It mounts the floppy disk for all users.
- B. It shows all mounted file systems.
- C. It opens /etc/fstab to edit.
- D. It mounts all file systems listed in /etc/fstab.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 95**

How can an administrator update a package only if an earlier version is currently installed on the system?

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 96**

Which of the following commands will show the contents of a gzip compressed tar archive?

- A. gzip archive.tgz | tar xvf
- B. tar ztf archive.tgz
- C. gzip -d archive.tgz | tar tvf
- D. tar cf archive.tgz

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 97**

**CORRECT TEXT**

An administrator suspects that a new Ethernet card might be conflicting with another device. Which file should the administrator check within the /proc tree to learn which IRQs are being used by which kernel drivers? (Please enter only a single command and do not enter duplicate answers in this field.)

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Answer: /PROC/INTERRUPTS,INTERRUPTS

**QUESTION 98**

Which of the following commands can be used to instruct the init process to switch runlevels? (Select TWO).

- A. telinit
- B. initctl
- C. init
- D. reinit
- E. runlevel

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 99**

All of the following commands will execute the bash script /usr/local/bin/runme.sh EXCEPT:

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

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 100**

An administrator is experimenting with a binary in /tmp/foo.d that expects its configuration file at /etc/foo.conf. The administrator does not want to save it there, but use a symbolic link to /tmp/foo.d/foo.conf instead. Which of the following commands would accomplish this?

- A. `ln -s /tmp/foo.d/foo.conf /etc/foo.conf`
- B. `ln /tmp/foo.d/foo.conf /etc/foo.conf`
- C. `ln -s /etc/foo.conf /tmp/foo.d/foo.conf`
- D. `ln /etc/foo.conf /tmp/foo.d/foo.conf`

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 101**

The message "Hard Disk Error" is displayed on the screen during Stage 1 of the GRUB boot process. Which of the following 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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 102**

Which of the following commands is run LAST during boot on a system with quotas enabled?

- A. `fsck`
- B. `mount`
- C. `quotacheck`
- D. `quotaon`

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 103**

An administrator has read/write permissions on an ordinary file foo. The administrator has just run `ln foo bar`. Which of the following would occur if the administrator ran `rm foo`?



- A. foo and bar would both be removed.
- B. foo would be removed while bar would remain accessible.
- C. foo would be removed. bar would still exist but would be unusable.
- D. Both foo and bar would remain accessible.
- E. The administrator would be asked whether bar should be removed.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 104**

**CORRECT TEXT**

To change the priority of a running process, an administrator should use the \_\_\_\_ command. (Specify command only with no options.)

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Answer: /USR/BIN/RENICE,RENICE

#### **QUESTION 105**

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 106**

An administrator wishes to kill a process with a PID of 123. Which of the following commands will allow the process to "clean up" before exiting?

- A. kill -1 123
- B. kill -9 123
- C. kill -15 123
- D. kill -17 123

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 107**

Which of the following is the purpose of the Bash built-in export command?

- A. To allow disks to be mounted remotely.
- B. To run a command as a process in a sub-shell.
- C. To make the command history available to sub-shells.
- D. To setup environment variables for applications.
- E. To share NFS partitions for use by other systems on the network.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 108**

An administrator is having some trouble with a disk partition and needs to do maintenance on this partition. The administrator's users home directories are on it and several are logged in. Which of the following commands would disconnect the users and allow the administrator to safely execute maintenance tasks?

- A. telinit 1
- B. shutdown -r now
- C. killall -9 inetd
- D. /bin/netstop --maint
- E. /etc/rc.d/init.d/network stop

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 109**

Bob accidentally created the subdirectory \bobsdir in his home directory. He tried to remove the subdirectory with the command rmdir \bobsfile only to receive the error, "No such file or directory." . Which of the following commands will remove the directory?

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

**Correct Answer:** E

**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 110**

Which of the following commands will print the inode usage on each mounted filesystem?

- A. du -i
- B. df -i
- C. lsfs -i
- D. printfs -i

**Correct Answer:** B

**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 111**

Which of the following commands will uninstall a package but leave its configuration files in case a package is re-installed?

- A. None, no command will do this.
- B. dpkg -s pkgname
- C. dpkg -L pkgname
- D. dpkg -P pkgname
- E. dpkg -r pkgname

**Correct Answer:** E

**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 112**

How does an administrator get a list of files that have been installed from a dpkg package?

- A. dpkg -l pkgname
- B. dpkg -C pkgname
- C. dpkg -s pkgname
- D. dpkg -S pkgname
- E. dpkg -L pkgname

**Correct Answer:** E

**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 113**

Which of the following command line redirection characters instructs the shell to read from the current input

source until a specific word, on a separate line and without and trailing spaces, is reached?

- A. <<
- B. <|
- C. !<
- D. &<<

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 114

CORRECT TEXT

An administrator has downloaded an image file of a boot floppy disk to a hard drive. What is the BEST utility to create a boot floppy from the disk image? (Specify a single command without options.)

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Answer: /BIN/DD,DD

#### QUESTION 115

In bash, inserting 1>&2 after a command redirects: A. standard error to standard input.

- A. standard input to standard error.
- B. standard output to standard error.
- C. standard error to standard output.
- D. standard output to standard input.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 116

In compliance with the FHS, in which of the following places are man pages typically found?

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 117**

**CORRECT TEXT**

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)? Enter the correct vi command without spaces. (Please enter only a single answer.)

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Answer: 17Y,17Y,17YY,17YY

**QUESTION 118**

**CORRECT TEXT**

What command with all options and/or parameters will send the signal USR1 to any executing process of program apache2?

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Answer: KILLALL-SSIGUSR1APACHE2,KILLALL-SUSR1APACHE2,KILLALL- SIGUSR1APACHE2,KILLALL-USR1APACHE2

**QUESTION 119**

Select the line that BEST represents what permissions the /etc/passwd file should have.

- A. -rw----- 1 root root 531 Jun 5 22:45 /etc/passwd
- B. -rw-r--r-- 1 root root 531 Jun 5 22:45 /etc/passwd
- C. -rw-r--r-- 1 1 1 531 Jun 5 22:45 /etc/passwd
- D. All answers listed are not correct.
- E. All answers listed are correct.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**



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