

LX0-103.exam.68q

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LX0-103

CompTIA Linux+ [Powered by LPI] Exam 1

Sections

1. SysArchitec
2. InstallPack
3. GNUUnix
4. DevFileHier

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Exam A

QUESTION 1

Which of the following commands reboots the system when using SysV init? (Choose TWO correct answers.)



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- A. shutdown -r now
- B. shutdown -r "rebooting"
- C. telinit 6
- D. telinit 0
- E. shutdown -k now "rebooting"

Correct Answer: AC

Section: SysArchitec

Explanation

Explanation/Reference:

QUESTION 2

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

Correct Answer: BCE

Section: SysArchitec

Explanation

Explanation/Reference:

QUESTION 3

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

Correct Answer: C

Section: InstallPack

Explanation

Explanation/Reference:

QUESTION 4

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

Correct Answer: B

Section: InstallPack

Explanation

Explanation/Reference:

QUESTION 5

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



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

Correct Answer: C
Section: InstallPack
Explanation

Explanation/Reference:

QUESTION 6

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

Correct Answer: D
Section: InstallPack
Explanation

Explanation/Reference:

QUESTION 7

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

Correct Answer: C
Section: InstallPack
Explanation

Explanation/Reference:

QUESTION 8

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

Correct Answer: D
Section: InstallPack
Explanation

Explanation/Reference:

QUESTION 9

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

Correct Answer: A
Section: InstallPack
Explanation

Explanation/Reference:

QUESTION 10

Which of the following commands lists the dependencies of a given dpkg package?

- A. apt-cache depends-on package
- B. apt-cache dependencies package
- C. apt-cache depends package
- D. apt-cache requires package

Correct Answer: C

Section: InstallPack

Explanation

Explanation/Reference:

QUESTION 11

Which of the following options is used in a GRUB Legacy configuration file to define the amount of time that the GRUB menu will be shown to the user?



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- A. hidemenu
- B. splash
- C. timeout
- D. showmenu

Correct Answer: C

Section: InstallPack

Explanation

Explanation/Reference:

QUESTION 12

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.

Correct Answer: BDE

Section: InstallPack

Explanation

Explanation/Reference:

QUESTION 13

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

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

Correct Answer: E

Section: InstallPack

Explanation

Explanation/Reference:

QUESTION 14

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

Correct Answer: B

Section: InstallPack

Explanation

Explanation/Reference:

QUESTION 15

When using rpm --verify to check files created during the installation of RPM packages, which of the following information is taken into consideration? (Choose THREE correct answers.)

- A. Timestamps
- B. MD5 checksums
- C. Inodes
- D. File sizes
- E. GnuPG signatures

Correct Answer: ABD

Section: InstallPack

Explanation

Explanation/Reference:

QUESTION 16

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.

Correct Answer: A

Section: InstallPack

Explanation

Explanation/Reference:

QUESTION 17

Which function key is used to start Safe Mode in Windows NT?



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- A. F10
- B. F8
- C. F6
- D. Windows NT does not support Safe Mode

Correct Answer: D

Section: InstallPack

Explanation

Explanation/Reference:

QUESTION 18

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: GNUUnix

Explanation

Explanation/Reference:

QUESTION 19

What command will generate a list of user names from /etc/passwd along with their login shell?

- A. column -s : 1,7 /etc/passwd
- B. chop -c 1,7 /etc/passwd
- C. colrm 1,7 /etc/passwd
- D. cut -d: -f1,7 /etc/passwd

Correct Answer: D

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 20

In a nested directory structure, which find command line option would be used to restrict the command to searching down a particular number of subdirectories?

- A. -dirmax
- B. -maxdepth
- C. -maxlevels
- D. -n
- E. -s

Correct Answer: B

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 21

Which of the following statements is correct regarding the command `foo 1> bar`?

- A. The stdout from the command `foo` is appended to the file `bar`.
- B. The stdout from the command `foo` overwrites the file `bar`.
- C. The command `foo` receives its stdin from the file `bar`.

- D. The command foo receives its stdin from the stdout of the command bar.
- E. The stderr from the command foo is saved to the file bar.

Correct Answer: B

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 22

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

Correct Answer: D

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 23

What is the maximum niceness value that a regular user can assign to a process with the nice command when executing a new process?

- A. 9
- B. 19
- C. 49
- D. 99

Correct Answer: B

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 24

Immediately after deleting 3 lines of text in vi and moving the cursor to a different line, which single character command will insert the deleted content below the current line?

- A. i (lowercase)
- B. P (uppercase)
- C. p (lowercase)
- D. U (uppercase)
- E. u (lowercase)

Correct Answer: C

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 25

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

Correct Answer: E

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 26

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



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

Correct Answer: A
Section: GNUUnix
Explanation

Explanation/Reference:

QUESTION 27

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: GNUUnix
Explanation

Explanation/Reference:

QUESTION 28

Which of the following commands will NOT update the modify timestamp on the file /tmp/myfile.txt?

- 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: GNUUnix

Explanation

Explanation/Reference:

QUESTION 29

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

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

Correct Answer: B

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 30

What is the default action of the split command on an input file?

- A. It will break the file into new files of 1,024 byte pieces each.
- B. It will break the file into new files of 1,000 line pieces each.
- C. It will break the file into new files of 1,024 kilobyte pieces each.
- D. It will break the file into new files that are no more than 5% of the size of the original file.

Correct Answer: B

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 31

What is the difference between the i and a commands of the vi editor?

- A. i (interactive) requires the user to explicitly switch between vi modes whereas a (automatic) switches modes automatically.
- B. i (insert) inserts text before the current cursor position whereas a (append) inserts text after the cursor.
- C. i (independent rows) starts every new line at the first character whereas a (aligned rows) keeps the indentation of the previous line.
- D. i (interrupt) temporarily suspends editing of a file to the background whereas a (abort) terminates editing.

Correct Answer: B

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 32

SIMULATION

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

Correct Answer: jobs

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 33

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

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

Correct Answer: B
Section: GNUUnix
Explanation

Explanation/Reference:

QUESTION 34

What is the effect of the egrep command when the -v option is used?

- A. It enables color to highlight matching parts.
- B. It only outputs non-matching lines.
- C. It shows the command's version information.
- D. It changes the output order showing the last matching line first.

Correct Answer: B
Section: GNUUnix
Explanation

Explanation/Reference:

QUESTION 35

What does the ? symbol within regular expressions represent?



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- A. Match the preceding qualifier one or more times.
- B. Match the preceding qualifier zero or more times.
- C. Match the preceding qualifier zero or one times.
- D. Match a literal ? character.

Correct Answer: C
Section: GNUUnix
Explanation

Explanation/Reference:

QUESTION 36

In the vi editor, how can commands such as moving the cursor or copying lines into the buffer be issued multiple times or applied to multiple rows?

- A. By using the command :repeat followed by the number and the command.
- B. By specifying the number right in front of a command such as 4l or 2yj.
- C. By selecting all affected lines using the shift and cursor keys before applying the command.
- D. By issuing a command such as :set repetition=4 which repeats every subsequent command 4 times.

Correct Answer: B

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 37

Which of the following files, located in the user home directory, is used to store the Bash history?

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

Correct Answer: A

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 38

SIMULATION

Which Bash environment variable defines in which file the user history is stored when exiting a Bash process? (Specify ONLY the variable name.)

Correct Answer: HISTFILE

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 39

Which of the following commands displays 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: GNUUnix

Explanation

Explanation/Reference:

QUESTION 40

Which grep command will print only the lines that do not end with a / in the file foo?

- A. `grep '$' foo`
- B. `grep '#' foo`
- C. `grep -v '$' foo`
- D. `grep -v '#' foo`

Correct Answer: C

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 41

Which of the following commands is used to change options and positional parameters for a running Bash?

- A. history
- B. set
- C. bashconf
- D. setsh
- E. envsetup

Correct Answer: B

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 42

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

Correct Answer: D

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 43

From a Bash shell, which of the following commands directly executes the instruction from the file /usr/local/bin/runme.sh without starting a subshell? (Please select TWO answers.)

- 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: AB

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 44

Regarding the command:

`nice -5 /usr/bin/prog`

which of the following statements is correct?

- A. `/usr/bin/prog` is executed with a nice level of -5.
- B. `/usr/bin/prog` is executed with a nice level of 5.
- C. `/usr/bin/prog` is executed with a priority of -5.
- D. `/usr/bin/prog` is executed with a priority of 5.

Correct Answer: B

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 45

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



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- A. `&`
- B. `bg`

- C. cont
- D. exec
- E. :&

Correct Answer: B
Section: GNUUnix
Explanation

Explanation/Reference:

QUESTION 46

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

Correct Answer: B
Section: GNUUnix
Explanation

Explanation/Reference:

QUESTION 47

In the vi editor, which of the following commands will copy the current line into the vi buffer?

- A. c
- B. cc
- C. 1c
- D. yy
- E. 1y

Correct Answer: D
Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 48

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

Correct Answer: AD

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 49

When starting a program with the nice command without any additional parameters, which nice level is set for the resulting process?

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

Correct Answer: C

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 50

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`

Correct Answer: E

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 51

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. `#`

Correct Answer: C

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 52

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`

Correct Answer: D

Section: GNUUnix
Explanation

Explanation/Reference:

QUESTION 53

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.

Correct Answer: D
Section: GNUUnix
Explanation

Explanation/Reference:

QUESTION 54

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"

Correct Answer: D
Section: GNUUnix
Explanation

Explanation/Reference:

QUESTION 55

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

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

Correct Answer: C

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 56

Which of the following commands determines the type of a file by using a definition database file which contains information about all common file types?

- A. magic
- B. type
- C. file
- D. pmagic
- E. hash

Correct Answer: C

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 57

SIMULATION

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

Correct Answer: mkdir -or- /usr/bin/mkdir

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 58

Which of the following commands prints all files and directories within the /tmp directory or its subdirectories which are also owned by the user root? (Choose TWO correct answers.)

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

Correct Answer: CD

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 59

When running the command

```
sed -e "s/a/b/" /tmp/file >/tmp/file
```

while /tmp/file contains data, why is /tmp/file empty afterwards?

- A. The file order is incorrect. The destination file must be mentioned before the command to ensure redirection.
- B. The command sed did not match anything in that file therefore the output is empty.
- C. When the shell establishes the redirection it overwrites the target file before the redirected command starts and opens it for reading.
- D. Redirection for shell commands do not work using the > character. It only works using the | character instead.

Correct Answer: C

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 60

When given the following command line.
echo "foo bar" | tee bar | cat

Which of the following output is created?

- A. cat
- B. foo bar
- C. tee bar
- D. bar
- E. foo

Correct Answer: B

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 61

Which of the following commands can be used to determine how long the system has been running? (Choose TWO correct answers.)

- A. uptime
- B. up
- C. top
- D. uname -u
- E. time -up

Correct Answer: AC

Section: GNUUnix

Explanation

Explanation/Reference:

QUESTION 62

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

Correct Answer: B

Section: DevFileHier

Explanation

Explanation/Reference:

QUESTION 63

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



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- 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

Correct Answer: A

Section: DevFileHier

Explanation

Explanation/Reference:

QUESTION 64

Which of the following commands can be used to search for the executable file foo when it has been placed in a directory not included in \$PATH?

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

Correct Answer: C

Section: DevFileHier

Explanation

Explanation/Reference:

QUESTION 65

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.

Correct Answer: D

Section: DevFileHier

Explanation

Explanation/Reference:

QUESTION 66

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

Correct Answer: D
Section: DevFileHier
Explanation

Explanation/Reference:

QUESTION 67

Which of the following is the device file name for the second partition on the only SCSI drive?

- A. /dev/hda1
- B. /dev/sda2
- C. /dev/sd0a2
- D. /dev/sd1p2

Correct Answer: B
Section: DevFileHier
Explanation

Explanation/Reference:

QUESTION 68

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

Correct Answer: AC
Section: DevFileHier
Explanation

Explanation/Reference:



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