



Linux-Foundation

Exam Questions LFCS

Linux Foundation Certified System Administrator

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NEW QUESTION 1

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 2

What of the following statements are true regarding /dev/ when using udev? (Choose TWO correct answers.)

- A. Entries for all possible devices get created on boot even if those devices are not connected.
- B. Additional rules for udev can be created by adding them to /etc/udev/rules.d/.
- C. When using udev, it is not possible to create block or character devices in /dev/ using mknod.
- D. The /dev/ directory is a filesystem of type tmpfs and is mounted by udev during system startup.
- E. The content of /dev/ is stored in /etc/udev/dev and is restored during system startup.

Answer: BD

NEW QUESTION 3

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

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

Answer: C

NEW QUESTION 4

What is the output of the following command? echo "Hello World" | tr -d aieou

- A. Hello World
- B. eoo
- C. Hll Wrld
- D. eoo Hll Wrld

Answer: C

NEW QUESTION 5

CORRECT TEXT

Which keyword must be listed in the hosts option of the Name Service Switch configuration file in order to make host lookups consult the /etc/hosts file?

- A.

Answer: files

NEW QUESTION 6

CORRECT TEXT

How many IP-addresses can be used for unique hosts inside the IPv4 subnet 192.168.2.128/28? (Specify the number only without any additional information.)

- A.

Answer: 14

NEW QUESTION 7

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 8

Which of the following commands shows the current color depth of the X Server?

- A. xcd
- B. xcdepth
- C. xwininfo
- D. xcolordepth
- E. cat /etc/X11

Answer: C

NEW QUESTION 9

What output will the following command sequence produce?
echo '1 2 3 4 5 6' | while read a b c; do echo result: \$c \$b \$a;
done

- A. result: 3 4 5 6 2 1
- B. result: 1 2 3 4 5 6
- C. result: 6 5 4
- D. result: 6 5 4 3 2 1
- E. result: 3 2 1

Answer: A

NEW QUESTION 10

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 10

Which of the following is observed and corrected by a NTP client?

- A. The skew in time between the system clock and the hardware clock.
- B. The skew in time between the system clock and the reference clock.
- C. Changes in the time zone of the current computer's location.
- D. Adjustments needed to support Daylight Saving Time.

Answer: B

NEW QUESTION 14

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 15

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 19

The X11 configuration file xorg.conf is grouped into sections. How is the content of the section SectionName associated with that section?

- A. It is placed in curly brackets as in Section SectionName { ... }.
- B. It is placed between a line containing Section "SectionName" and a line containing EndSection.
- C. It is placed between the tags <Section name="SectionName"> and </Section>
- D. It is placed after the row [SectionName].
- E. It is placed after an initial unindented Section "SectionName" and must be indented by exactly one tab character.

Answer: B

NEW QUESTION 20

CORRECT TEXT

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

A.

Answer: 0077077

NEW QUESTION 23

What is true about the file /etc/localtime?

- A. It is a plain text file containing a string such as Europe/Berlin.
- B. It is created and maintained by the NTP service based on the geolocation of the system's IP address.
- C. It is a symlink to /sys/device/clock/ltime and always contains the current local time.
- D. It is either a symlink to or a copy of a timezone information file such as /usr/share/zoneinfo/Europe/Berlin.

Answer: D

NEW QUESTION 26

Which of the following commands puts the output of the command date into the shell variable mydate?

- A. mydate="\$(date)"
- B. mydate="exec date"
- C. mydate="\$((date))"
- D. mydate="date"
- E. mydate="{date}"

Answer: A

NEW QUESTION 31

Which of the following pieces of information of an existing file is changed when a hard link pointing to that file is created?

- A. File size
- B. Modify timestamp
- C. Link count
- D. Inode number
- E. Permissions

Answer: C

NEW QUESTION 35

Which configuration file would be edited to change default options for the OpenSSH server?

- A. /etc/ssh/sshd_config
- B. /etc/ssh/ssh
- C. /etc/ssh/server
- D. /etc/ssh/ssh_config
- E. /etc/ssh/ssh_server

Answer: A

NEW QUESTION 39

Which of the following commands can be used to create a USB storage media from a disk image?

- A. gdisk
- B. dd
- C. cc
- D. fdisk
- E. mount

Answer: B

NEW QUESTION 43

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

Answer: B

NEW QUESTION 48

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

Answer: B

NEW QUESTION 52

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

Answer: C

NEW QUESTION 56

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

Answer: C

NEW QUESTION 57

Given the following routing table:

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
0.0.0.0	192.168.178.1	0.0.0.0	UG	0	0	0	wlan0
192.168.1.0	0.0.0.0	255.255.255.0	U	0	0	0	eth0
192.168.2.0	192.168.1.1	255.255.255.0	U	0	0	0	eth0
192.168.178.0	0.0.0.0	255.255.255.0	U	9	0	0	wlan0

How would an outgoing packet to the destination 192.168.2.150 be handled?

- A. It would be passed to the default router 192.168.178.1 on wlan0.
- B. It would be directly transmitted on the device eth0.
- C. It would be passed to the default router 255.255.255.0 on eth0.
- D. It would be directly transmitted on the device wlan0.
- E. It would be passed to the router 192.168.1.1 on eth0.

Answer: E

NEW QUESTION 60

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

Answer: AC

NEW QUESTION 62

Which of the following IPv4 networks are reserved by IANA for private address assignment and private routing? (Choose THREE correct answers.)

- A. 127.0.0.0/8
- B. 10.0.0.0/8
- C. 169.255.0.0/16
- D. 172.16.0.0/12
- E. 192.168.0.0/16

Answer: BDE

NEW QUESTION 66

After moving data to a new filesystem, how can the former path of the data be kept intact in order to avoid reconfiguration of existing applications? (Choose TWO correct answers.)

- A. By creating an ACL redirection from the old to the new path of the data.
- B. By creating a hard link from the old to the new path of the data.

- C. By creating a symbolic link from the old to the new path of the data.
- D. By running the command touch on the old path.
- E. By mounting the new filesystem on the original path of the data.

Answer: CE

NEW QUESTION 69

CORRECT TEXT

After configuring printing on a Linux server, the administrator sends a test file to one of the printers and it fails to print. What command can be used to display the status of the printer's queue? (Specify ONLY the command without any path or parameters.)

A.

Answer: lpq/usr/bin/lpq lpstat/usr/bin/lpstat

NEW QUESTION 73

Which of the following find commands will print out a list of files owned by root and with the SUID bit set in /usr?

- A. find /usr -uid 0 -perm +4000
- B. find -user root +mode +s /usr
- C. find -type suid -username root -d /usr
- D. find /usr -ls *s* -u root
- E. find /usr -suid -perm +4000

Answer: A

NEW QUESTION 78

CORRECT TEXT

Which option to the yum command will update the entire system? (Specify ONLY the option name without any additional parameters.)

A.

Answer: updateupgrade

NEW QUESTION 82

CORRECT TEXT

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

A.

Answer: mkdir/usr/bin/mkdir

NEW QUESTION 84

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 85

What does the exit status 0 indicate about a process?

- A. The process ended without any problems.
- B. The process was terminated by the user.
- C. The process couldn't finish correctly.
- D. The process waited for an input but got none.
- E. The process finished in time.

Answer: A

NEW QUESTION 86

Which of the following commands can be used to display the local routing table? (Choose TWO correct answers.)

- A. ifconfig
- B. dig
- C. netstat
- D. route
- E. trackroute

Answer: CD

NEW QUESTION 88

When trying to unmount a device it is reported as being busy. Which of the following commands could be used to determine which process is causing this?

- A. debug
- B. lsof
- C. nessus
- D. strace
- E. traceroute

Answer: B

NEW QUESTION 93

What is the first program that is usually started, at boot time, by the Linux kernel when using SysV init?

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

Answer: B

NEW QUESTION 97

CORRECT TEXT

Which command is used to add an empty group to the system? (Specify ONLY the command without any path or parameters.)

- A.

Answer: groupadd/usr/sbin/groupadd

NEW QUESTION 101

CORRECT TEXT

Which command is used to set the hostname of the local system? (Specify ONLY the command without any path or parameters.)

- A.

Answer: hostname

NEW QUESTION 103

CORRECT TEXT

Which world-writable directory should be placed on a separate partition in order to prevent users from being able to fill up the / filesystem? (Specify the full path to the directory.)

- A.

Answer: /tmp/tmp/var/tmp/tmp//var/tmp/

NEW QUESTION 107

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

Answer: B

NEW QUESTION 111

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 114

Which of the following commands redirects the output of cmd to the file foo.txt, in which an existing file is overwritten?

- A. cmd || foo.txt
- B. cmd | foo.txt
- C. cmd && foo.txt
- D. cmd >> foo.txt

E. `cmd > foo.txt`

Answer: E

NEW QUESTION 117

CORRECT TEXT

On a Linux system with shadow passwords enabled, which file in the file system contains the password hashes of all local users? (Specify the full name of the file, including path.)

A.

Answer: `/etc/shadow`

NEW QUESTION 118

CORRECT TEXT

What two character sequence is present at the beginning of an interpreted script? (Please specify the TWO correct characters only)

A.

Answer: `#!`

NEW QUESTION 121

Which of the following commands can remove a user from a group?

- A. `grouprm`
- B. `groupmod`
- C. `passwd`
- D. `usergroups`
- E. `usermod`

Answer: E

NEW QUESTION 126

Which of the following is a legacy program provided by CUPS for sending files to the printer queues on the command line?

- A. `lpd`
- B. `lpp`
- C. `lpq`
- D. `lpr`

Answer: D

NEW QUESTION 127

Which of the following commands can be used to extract content from a tar file?

- A. `tar -xvf`
- B. `tar -vf`
- C. `tar -e`
- D. `tar -c`
- E. `tar -v`

Answer: A

NEW QUESTION 129

How can the normal output of a command be written to a file while discarding the error output?

- A. `command >2>file 1&>/dev/null`
- B. `command < output > /dev/null`
- C. `command > discard-error > file`
- D. `command > /dev/null 2&>1 output`
- E. `command >file 2>/dev/null`

Answer: E

NEW QUESTION 132

CORRECT TEXT

Which command, depending on its options, can display the open network connections, the routing tables, as well as network interface statistics. (Specify ONLY the command without any path or parameters.)

A.

Answer: `netstat/bin/netstatss/usr/bin/ss`

NEW QUESTION 134

Which of the following are syslog facilities? (Choose TWO correct answers.)

- A. local7
- B. mail
- C. advanced
- D. postmaster
- E. remote

Answer: AB

NEW QUESTION 136

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

Answer: CD

NEW QUESTION 141

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 kilobytepieces each.
- D. It will break the file into new files that are no more than 5% of the size of the original file.

Answer: B

NEW QUESTION 144

CORRECT TEXT

What argument to the -type option of find will match files that are symbolic links? (Specify only the argument and no other options or words.)

- A.

Answer: l

NEW QUESTION 149

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

- A. <
- B. <<<
- C. >
- D. >>>
- E. %>

Answer: ABC

NEW QUESTION 151

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 -Kl /etc/exports
- D. rpm -qp /etc/exports
- E. rpm -qi /etc/exports

Answer: B

NEW QUESTION 154

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 156

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

Answer: ABD

NEW QUESTION 160

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 164

Which of the following command sequences overwrites the file `foobar.txt`?

- A. `echo "QUIDQUIDAGIS" >> foobar.txt`
- B. `echo "QUIDQUIDAGIS" < foobar.txt`
- C. `echo "QUIDQUIDAGIS" > foobar.txt`
- D. `echo "QUIDQUIDAGIS" | foobar.txt`

Answer: :C

NEW QUESTION 169

Which of the following details is NOT provided in any output from the `netstat` utility?

- A. broadcast services
- B. interface statistics
- C. masquerading connections
- D. network connections
- E. routing tables

Answer: A

NEW QUESTION 171

Which of the following commands is used to rotate, compress, and mail system logs?

- A. `rotatelog`
- B. `striplog`
- C. `syslogd --rotate`
- D. `logrotate`
- E. `logger`

Answer: D

NEW QUESTION 172

CORRECT TEXT

Which signal is missing from the following command that is commonly used to instruct `daemond` to reinitialize itself, including reading configuration files?
`killall -s daemon`

- A.

Answer: HUP/SIGHUP/1

NEW QUESTION 173

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 175

Where are user specific crontabs stored?

- A. In the database file /etc/crontab.db which is shared by all users.
- B. As individual per-user files within /var/spool/cron.
- C. As individual per-user files in /etc/cron.user.d.
- D. In the .crontab file in the user's home directory.
- E. In the file /var/cron/user-crontab which is shared by all users.

Answer: B

NEW QUESTION 178

What of the following can be done by the command ifconfig? (Choose TWO correct answers.)

- A. Set a network interface active or inactive.
- B. Specify the kernel module to be used with a network interface.
- C. Allow regular users to change the network configuration of a network interface.
- D. Change the netmask used on a network interface.
- E. Specify which network services are available on a network interface.

Answer: AD

NEW QUESTION 182

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 187

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.

Answer: B

NEW QUESTION 191

Which of the following commands can be used to limit the amount of memory a user may use?

- A. umask
- B. usermod
- C. ulimit
- D. passwd
- E. chage

Answer: C

NEW QUESTION 192

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 197

What is the command to delete the default gateway from the system IP routing table? (Choose TWO correct answers.)

- A. route del default
- B. ifconfig unset default
- C. netstat -r default
- D. ip route del default
- E. sysctl ipv4.default_gw=0

Answer: AD

NEW QUESTION 198

What is NOT contained in the locale setting of the operating system?

- A. currency symbol
- B. language
- C. timezone
- D. thousands separator

Answer: C

NEW QUESTION 199

What is true regarding a default route?

- A. The default route is always used first
- B. When the default route is not available more specific routes are tried.
- C. When a default route is set, all other routes are disabled until the default route is deleted.
- D. The default route is only used if there is not a more specific route to a destination host or network.
- E. Without a default route, no network communication even in directly attached networks is possible.

Answer: C

NEW QUESTION 200

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