



Linux-Foundation

Exam Questions LFCS

Linux Foundation Certified System Administrator

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NEW QUESTION 1

Which command chain will count the number of regular files with the name of foo.txt within /home?

- A. ls -lR /home | grep foo.txt | wc -l
- B. find /home -type f -name foo.txt | wc -l
- C. find /home -name foo.txt -count
- D. find /home -name foo.txt | wc -l
- E. grep -R foo.txt /home | wc -l

Answer: B

NEW QUESTION 2

What is a purpose of an SSH host key?

- A. It must be sent by any SSH client in addition to a user key in order to identify the client's host.
- B. It provides the server's identity information to connecting SSH clients.
- C. It is the root key by which all user SSH keys must be signed.
- D. It authenticates any user that logs into a remote machine from the key's host.
- E. It is used by system services like cron, syslog or a backup job to automatically connect to remote hosts.

Answer: B

NEW QUESTION 3

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 4

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 5

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 6

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 7

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 8

Which of the following files assigns a user to its primary group?

- A. /etc/pgroup
- B. /etc/shadow
- C. /etc/group
- D. /etc/passwd
- E. /etc/gshadow

Answer: D

NEW QUESTION 9

Which of the following programs can be used to determine the routing path to a given destination?

- A. dig
- B. netstat
- C. ping
- D. route
- E. traceroute

Answer: E

NEW QUESTION 10

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 10

CORRECT TEXT

With X11 forwarding in ssh, what environment variable is automatically set in the remote host shell that is not set when X11 forwarding is not enabled? (Specify only the environment variable without any additional commands or values.)

A.

Answer: DISPLAY\$DISPLAY

NEW QUESTION 14

To prevent a specific user from scheduling tasks with at, what should the administrator do?

- A. Add the specific user to /etc/at.allow file.
- B. Add the specific user to [deny] section in the /etc/atd.conf file.
- C. Add the specific user to /etc/at.deny file.
- D. Add the specific user to nojobs group.
- E. Run the following: atd --deny [user].

Answer: C

NEW QUESTION 15

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

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

Answer: C

NEW QUESTION 16

When the command echo \$\$ outputs 12942, what is the meaning of 12942?

- A. It is the process ID of the echo command.
- B. It is the process ID of the current shell.
- C. It is the process ID of the last command executed.
- D. It is the process ID of the last command which has been placed in the background.

Answer: B

NEW QUESTION 17

Which of the following keywords can be used in the file `/etc/nsswitch.conf` to specify a source for host name lookups? (Choose TWO correct answers.)

- A. resolv
- B. dns
- C. remote
- D. files
- E. hosts

Answer: BD

NEW QUESTION 19

Which run levels should never be declared as the default run level when using SysV init? (Choose TWO correct answers.)

- A. 1
- B. 3
- C. 5
- D. 6

Answer: AE

NEW QUESTION 21

Which of the following options for the kernel's command line changes the systemd boot target to `rescue.target` instead of the default target?

- A. `systemd.target=rescue.target`
- B. `systemd.runlevel=rescue.target`
- C. `systemd.service=rescue.target`
- D. `systemd.default=rescue.target`
- E. `systemd.unit=rescue.target`

Answer: E

NEW QUESTION 25

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 29

CORRECT TEXT

What is the name of the main configuration file for GNU GRUB? (Specify the file name only without any path.)

- A.

Answer: `menu.lst`
`grub.conf`
`grub.cfg`

NEW QUESTION 34

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.

Answer: B

NEW QUESTION 36

Which of the following fields are available in both the global `/etc/crontab` file as well as in user-specific crontab files? (Select TWO correct answers)

- A. Year
- B. Minute
- C. Username
- D. Command

Answer: BD

NEW QUESTION 40

CORRECT TEXT

Which file lists which users can execute commands using sudo? (Specify the full name of the file, including path.)

A.

Answer: /etc/sudoers

NEW QUESTION 41

CORRECT TEXT

What is the lowest numbered unprivileged TCP port? (Specify the number in digits only.)

A.

Answer: 1024

NEW QUESTION 45

Which of the following fields can be found in the /etc/group file? (Choose THREE correct answers.)

- A. The list of users that belong to the group.
- B. The home directory of the group.
- C. The name of the group.
- D. The description of the group.
- E. The password of the group.

Answer: ACE

NEW QUESTION 48

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.

Answer: B

NEW QUESTION 53

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

Answer: B

NEW QUESTION 54

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 57

Which of the following commands will output all of the lines with the name Fred in upper or lower case but not the word red from the file data_file? (Choose two)

- A. grep -v fred data_file
- B. grep '[f]red' data_file
- C. egrep fred data_file
- D. grep '[Ff]red' data_file
- E. grep -i fred data_file

Answer: DE

NEW QUESTION 62

Which of the following is true about IPv6?

- A. With IPv6, the TCP port numbers of most services have changed.
- B. IPv6 no longer supports broadcast addresses.
- C. IPv4 addresses can be used without any change with IPv6.
- D. IPv6 no longer supports multicast addresses.
- E. For IPv6, UDP and TCP have been replaced by the Rapid Transmission Protocol RTP.

Answer: B

NEW QUESTION 66

Which of the following crontab entries will execute myscrip at 30 minutes past every hour on Sundays?

- A. 0 * * * 30 myscrip
- B. 30 * * * 6 myscrip
- C. 30 0 * * 0 myscrip
- D. 30 0-23 * * 0 myscrip
- E. 0 0-23 * * 30 myscrip

Answer: D

NEW QUESTION 71

In case neither cron.allow nor cron.deny exist in /etc/, which of the following is true?

- A. Without additional configuration, no users may have user specific crontabs.
- B. Without additional configuration, all users may have user specific crontabs.
- C. The cron daemon will refuse to start and report missing files in the system's logfile.
- D. When a user creates a user specific crontab the system administrator must approve it explicitly.

Answer: A

NEW QUESTION 75

After issuing:

```
function myfunction { echo $1 $2 ; }
```

in Bash, which output does:

```
myfunction A B C
```

Produce?

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

Answer: A

NEW QUESTION 76

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 79

Which of the following commands will set the variable text to olaf is home?(Choose two)

- A. text=olaf\ is\ home
- B. text=\$olaf is home
- C. \$text='olaf is home'
- D. text=='olaf is home'
- E. text="olaf is home"

Answer: AE

NEW QUESTION 81

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)

Answer: C

NEW QUESTION 84

Which of the following signals is sent to a process when the key combination CTRL+C is pressed on the keyboard?

- A. SIGTERM
- B. SIGINT
- C. SIGSTOP

D. SIGKILL

Answer: B

NEW QUESTION 89

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 91

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 96

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 99

CORRECT TEXT

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

A.

Answer: quotacheck

NEW QUESTION 102

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 104

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 108

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 112

What is the purpose of the iconv command?

- A. It converts bitmap images from one format to another such as PNG to JPEG.
- B. It verifies that the root directory tree complies to all conventions from the Filesystem Hierarchy Standard (FHS).
- C. It displays additional meta information from icon files ending in .ico.
- D. It changes the mode of an inode in the ext4 file system.
- E. It converts files from one character encoding to another.

Answer: E

NEW QUESTION 114

CORRECT TEXT

The system's timezone may be set by linking /etc/localtime to an appropriate file in which directory? (Provide the full path to the directory, without any country information)

A.

Answer: /usr/share/zoneinfo/

NEW QUESTION 118

What is the correct command to extract the contents of the archive file download.bz2?

- A. unpack download.bz2
- B. unzip2 download.bz2
- C. bunzip2 download.bz2
- D. unzip download.bz2
- E. uncompress download.bz2

Answer: C

NEW QUESTION 119

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 123

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 128

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 132

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 137

Which of the following steps prevents a user from obtaining an interactive login session?

- A. Run the command `chsh -s /bin/false` with the user name.
- B. Set the UID for the user to 0.
- C. Remove the user from the group staff.
- D. Add the user to `/etc/noaccess`.
- E. Create a `.nologin` file in the user's home directory.

Answer: A

NEW QUESTION 140

Which of the following commands will create an archive file, named `backup.tar`, containing all the files from the directory `/home`?

- A. `tar /home backup.tar`
- B. `tar -cf /home backup.tar`
- C. `tar -xf /home backup.tar`
- D. `tar -xf backup.tar /home`
- E. `tar -cf backup.tar /home`

Answer: E

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 148

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 151

What entry can be added to the `syslog.conf` file to have all syslog messages generated by a system displayed on console 12?

- A. `*.* /dev/tty12`
- B. `/var/log/messages | /dev/tty12`
- C. `| /dev/tty12`
- D. `syslog tty12`
- E. `mail.* /dev/tty12`

Answer: A

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 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 162

Which of the following tools used for DNS debugging, reports not only the response from the name server but also details about the query?

- A. dnsq
- B. dig
- C. hostname
- D. dnslookup
- E. zoneinfo

Answer: B

NEW QUESTION 163

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 166

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 167

Which of the following are commonly used Mail Transfer Agent (MTA) applications? (Choose THREE correct answers.)

- A. Postfix
- B. Procmal
- C. Sendmail
- D. Exim
- E. SMTPd

Answer: ACD

NEW QUESTION 169

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