

Linux-Foundation

Exam Questions LFCS

Linux Foundation Certified System Administrator



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 may occur as a consequence of using the command ifconfig? (Choose THREE correct answers.)

- A. New name servers may be added to the resolver configuration.
- B. Network interfaces may become active or inactive.
- C. The routing table may change.
- D. IP addresses may change.
- E. The system's host name may change.

Answer: BCD

NEW QUESTION 4

Which of the following tasks can be accomplished using the command date? (Choose TWO correct answers.)

- A. Synchronize the hardware and system clocks.
- B. Output date and time in different formats.
- C. Set the system clock.
- D. Set the hardware clock.
- E. Update the time via NTP.

Answer: BC

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

Which command can be used to delete a group from a Linux system?

- A. groupdel
- B. groupmod
- C. groups
- D. groupedit

Answer: A

NEW QUESTION 7

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

Answer: E

NEW QUESTION 8

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 9

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 10

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 15

Which of the following commands will change the quota for a specific user?

- A. edquota
- B. repquota
- C. quota -e
- D. quota

Answer: :A

NEW QUESTION 16

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 17

Which SysV init configuration file 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

Answer: :C

NEW QUESTION 19

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 22

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

Answer: B

NEW QUESTION 26

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`.

Answer: B

NEW QUESTION 31

Which character in the password field of /etc/passwd is used to indicate that the encrypted password is stored in /etc/shadow?

- A. *
- B. -
- C. s
- D. x

Answer: D

NEW QUESTION 36

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 38

Which of the following commands lists all defined variables and functions within Bash?

- A. env
- B. set
- C. env -a
- D. echo \$ENV

Answer: B

NEW QUESTION 39

Which of the following is a valid IPv6 address?

- A. 2001:db8:3241::1
- B. 2001::db8:4581::1
- C. 2001:db8:0g41::1
- D. 2001%db8%9990%%1
- E. 2001.db8.819f..1

Answer: A

NEW QUESTION 43

Which of the following commands connects to the remote host `example.com` which has OpenSSH listening on TCP port 2222? (Choose TWO correct answers.)

- A. ssh --port 2222 example.com
- B. ssh -p 2222 example.com
- C. ssh -o Port=2222 example.com
- D. ssh -o GatewayPort=2222 example.com
- E. ssh example.com:2222

Answer: BC

NEW QUESTION 45

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 49

CORRECT TEXT

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

- A.

Answer: swapoff/sbin/swapoff

NEW QUESTION 53

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

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

Answer: C

NEW QUESTION 57

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 60

Given the following routing table:

Kernel IP 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 62

What is the output of the following command?
for token in a b c; do echo -n \${token}; done

- A. anbncn
- B. abc
- C. \$token\$token\$token
- D. {a}{b}{c}
- E. a b c

Answer: B

NEW QUESTION 64

Which of the following commands set the sticky bit for the directory /tmp? (Choose TWO correct answers.)

- A. chmod +s /tmp
- B. chmod +t /tmp
- C. chmod 1775 /tmp
- D. chmod 4775 /tmp
- E. chmod 2775 /tmp

Answer: BC

NEW QUESTION 67

CORRECT TEXT

Which parameter must be passed to ifconfig to activate a previously inactive network interface? (Specify the parameter only without any command, path or additional options)

- A.

Answer: up

NEW QUESTION 68

How can the current directory and its subdirectories be searched for the file named MyFile.xml?

- A. find . -name MyFile.xml
- B. grep MyFile.xml | find
- C. grep -r MyFile.xml .
- D. less MyFile.xml
- E. search Myfile.xml ./

Answer: A

NEW QUESTION 73

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

Answer: AC

NEW QUESTION 74

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

Answer: A

NEW QUESTION 78

Which of the following are tasks handled by a display manager like XDM or KDM? (Choose TWO correct answers.)

- A. Start and prepare the desktop environment for the user.
- B. Configure additional devices like new monitors or projectors when they are attached.
- C. Handle the login of a user.
- D. Lock the screen when the user was inactive for a configurable amount of time.
- E. Create an X11 configuration file for the current graphic devices and monitors.

Answer: AC

NEW QUESTION 80

Which of the following parameters are used for journalctl to limit the time frame of the output? (Choose TWO correct answers.)

- A. --from=
- B. --since=
- C. --until=
- D. --upto=
- E. --date=

Answer: BC

NEW QUESTION 83

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 85

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

Answer: D

NEW QUESTION 89

CORRECT TEXT

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

A.

Answer: 1024

NEW QUESTION 93

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?

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

Answer: C

NEW QUESTION 94

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 97

CORRECT TEXT

Which Debian package management tool asks the configuration questions for a specific already installed package just as if the package were being installed for the first time? (Specify ONLY the command without any path or parameters.)

A.

Answer: dpkg-reconfigure

NEW QUESTION 99

CORRECT TEXT

Which file specifies the user accounts that can NOT submit jobs via at or batch? (Provide the full path and filename)

A.

Answer: /etc/at.deny

NEW QUESTION 103

CORRECT TEXT

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

A.

Answer: cmdline/proc/cmdline

NEW QUESTION 108

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 110

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 113

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 118

During a system boot cycle, what program is executed after the BIOS completes its tasks?

- A. The bootloader
- B. The inetd program
- C. The init program
- D. The kernel

Answer: A

NEW QUESTION 121

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.

Answer: B

NEW QUESTION 124

Which of the following are requirements in order to run a shell script like a regular command from anywhere in the filesystem? (Choose THREE correct answers.)

- A. The user issuing the command must be in the group script.
- B. The script file must be found in the \$PATH.
- C. The script file must have the executable permission bit set.
- D. The script must begin with a shebang-line (!) that points to the correct interpreter.
- E. The file system on which the script resides must be mounted with the option scripts.

Answer: BCD

NEW QUESTION 126

What is true about the ntpdate command?

- A. It is the primary management command for the NTP time server.
- B. It updates the local system's date (i.
- C. day, month and year) but not the time (i.
- D. hours, minutes, seconds).
- E. It queries one or more NTP time servers and adjusts the system time accordingly.
- F. It sends the local system time to one or many remote NTP time servers for redistribution.
- G. It can be used by any user to set the user clock independently of the system clock.

Answer: C

NEW QUESTION 130

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 135

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 137

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 141

CORRECT TEXT

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

- A.

Answer: dmesg/bin/dmesg

NEW QUESTION 142

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 143

What is the difference between the commands test -e path and test -f path?

- A. They are equivalent options with the same behaviour.
- B. The -f option tests for a regular file.
- C. The -e option tests for an empty file.
- D. Both options check the existence of the path.
- E. The -f option also confirms that it is a regular file.
- F. The -f option tests for a regular file.
- G. The -e option tests for an executable file.

Answer: C

NEW QUESTION 145

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 150

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 153

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

Answer: D

NEW QUESTION 158

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 162

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 163

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 164

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

Answer: D

NEW QUESTION 169

CORRECT TEXT

With IPv6, how many bits have been used for the interface identifier of an unicast address? (Specify the number using digits only.)

A.

Answer: 64

NEW QUESTION 171

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 172

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/sdabs=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

Answer: C

NEW QUESTION 176

CORRECT TEXT

Which port is the default server port for the HTTPS protocol? (Specify the port number using digits.)

A.

Answer: 443

NEW QUESTION 180

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 182

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 184

CORRECT TEXT

Which command is used to sync the hardware clock to the system clock? (Specify ONLY the command without any path or parameters.)

A.

Answer: hwclock/sbin/hwclock/usr/sbin/hwclock

NEW QUESTION 189

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 194

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 198

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

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

Answer: E

NEW QUESTION 202

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 203

What is the purpose of the nsswitch.conf file?

- A. It is used to configure where the C library looks for system information such as host names and user passwords.
- B. It is used to configure network protocol port numbers such as for HTTP or SMTP.
- C. It is used to configure LDAP authentication services for the local system.
- D. It is used to configure which network services will be turned on during the next system boot.

Answer: A

NEW QUESTION 207

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 daemond

A.

Answer: HUP

NEW QUESTION 209

Which of the following is correct when talking about mountpoints?

- 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.

Answer: A

NEW QUESTION 211

What output will the following command produce? seq 1 5 20

- A. 161116
- B. 151015
- C. 1234
- D. 2345
- E. 5101520

Answer: A

NEW QUESTION 216

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 220

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 225

CORRECT TEXT

Which directory holds the files that configure the xinetd service when using several configuration files instead of an integrated configuration file? (Specify the full path to the directory.)

A.

Answer: /etc/xinetd.d//etc/xinetd.d

NEW QUESTION 229

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 230

Which of the following commands should be added to /etc/bash_profile in order to change the language of messages for an internationalized program to Portuguese (pt)?

- A. export LANGUAGE="pt"
- B. export MESSAGE="pt"
- C. export UI_MESSAGES="pt"
- D. export LC_MESSAGES="pt"
- E. export ALL_MESSAGES="pt"

Answer: D

NEW QUESTION 235

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