

Linux-Foundation

Exam Questions LFCS

Linux Foundation Certified System Administrator



NEW QUESTION 1

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 2

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

Answer: C

NEW QUESTION 3

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 4

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`

Answer: A

NEW QUESTION 5

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 6

What is the purpose of the command `mailq`?

- A. It fetches new emails from a remote server using POP3 or IMAP.
- B. It is a multi-user mailing list manager.
- C. It is a proprietary tool contained only in the qmail MTA.
- D. It queries the mail queue of the local MTA.
- E. It is a command-line based tool for reading and writing emails.

Answer: D

NEW QUESTION 7

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 8

CORRECT TEXT

After adding a new email alias to the configuration, which command must be run in order to ensure the MTA knows about it? (Specify the command without any path but including all required parameters.)

A.

Answer: newaliasessendmail-bi

NEW QUESTION 9

CORRECT TEXT

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

A.

Answer: HISTFILE

NEW QUESTION 10

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 10

CORRECT TEXT

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

A.

Answer: /etc/yum.repos.d/etc/yum.repos.d/yum.repos.dyum.repos.d/

NEW QUESTION 12

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 16

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 19

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

Answer: D

NEW QUESTION 23

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 28

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 30

Which of the following commands creates an ext3 filesystem on /dev/sdb1? (Choose TWO correct answers.)

- A. /sbin/mke2fs -j /dev/sdb1
- B. /sbin/mkfs -t ext3 /dev/sdb1
- C. /sbin/mkfs -c ext3 /dev/sdb1
- D. /sbin/mke3fs -j /dev/sdb1

Answer: AB

NEW QUESTION 35

CORRECT TEXT

Which command, available with all MTAs, is used to list the contents of the MTA's mail queue? (Specify ONLY the command without any path or parameters.)

- A.

Answer: mailq/usr/bin/mailqsendmail-bp/usr/sbin/sendmail-bp/usr/lib/sendmail-bpsendmail/usr/sbin/sendmail/usr/lib/sendmail

NEW QUESTION 36

CORRECT TEXT

What is the name of the simple graphical login manager that comes with a vanilla X11 installation? (Specify ONLY the command without any path or parameters.)

- A.

Answer: xdm

NEW QUESTION 38

What does the ? symbol within regular expressions represent?

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

Answer: C

NEW QUESTION 41

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 43

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 45

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

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

Answer: D

NEW QUESTION 50

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 53

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 54

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 57

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

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

Answer: A

NEW QUESTION 59

CORRECT TEXT

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

- A.

Answer: 1024

NEW QUESTION 62

What is the purpose of a screen reader?

- A. It reads text displayed on the screen to blind or visually impaired people.
- B. It reads the parameters of the attached monitors and creates an appropriate X11 configuration.
- C. It displays lines and markers to help people use speed reading techniques.
- D. It manages and displays files that contain e-books.

Answer: A

NEW QUESTION 66

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|pstat/usr/bin/lpstat

NEW QUESTION 71

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 72

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 73

How is a display manager started?

- A. It is started by a user using the command startx.
- B. It is started like any other system service by the init system.
- C. It is started by inetd when a remote hosts connects to the X11 port.
- D. It is started automatically when a X11 user logs in to the system console.

Answer: B

NEW QUESTION 75

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 78

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 80

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 83

Which of the following commands changes the number of days before the ext3 filesystem on /dev/sda1 has to run through a full filesystem check while booting?

- A. tune2fs -d 200 /dev/sda1
- B. tune2fs -c 200 /dev/sda1
- C. tune2fs -i 200 /dev/sda1

- D. tune2fs -n 200/dev/sda1
- E. tune2fs --days 200 /dev/sda1

Answer: C

NEW QUESTION 88

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 93

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 96

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 97

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 101

On a regular users workstation the route command takes a long time before printing out the routing table. Which of the following errors does that indicate?

- A. The local routing information may be corrupted and must be re-validated using a routing protocol.
- B. One of the routers in the routing table is not available which causes the automatic router failure detection mechanism (ARF-D) to wait for a timeout.
- C. There may accidentally be more than one default router in which case a default router election has to be done on the network in order to choose one router as the default.
- D. DNS resolution may not be working as route by default tries to resolve names of routers and destinations and may run into a timeout.

Answer: D

NEW QUESTION 102

What is true regarding the file ~/.forward?

- A. As it is owned by the MTA and not writable by the user, it must be edited using the editaliases command.
- B. After editing ~/.forward the user must run newaliases to make the mail server aware of the changes.
- C. Using ~/.forward, root may configure any email address whereas all other users may configure only their own addresses.
- D. When configured correctly, ~/.forward can be used to forward each incoming mail to more than one other recipient.

Answer: D

NEW QUESTION 107

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 110

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 113

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. #

Answer: C

NEW QUESTION 114

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.

Answer: BDE

NEW QUESTION 115

Which command will display the last line of the file foo.txt?

- A. head -n 1 foo.txt
- B. tail foo.txt
- C. last -n 1 foo.txt
- D. tail -n 1 foo.txt

Answer: D

NEW QUESTION 120

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

- A. -10
- B. 10
- C. 20

Answer: C

NEW QUESTION 123

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 124

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 128

Which of the following programs uses the hosts.allow file to perform its main task of checking for access control restrictions to system services?

- A. tcpd
- B. inetd
- C. fingerd
- D. mountd
- E. xinetd

Answer: A

NEW QUESTION 129

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

Answer: B

NEW QUESTION 130

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 131

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 136

Which commands can be used to change a user's account aging information? (Choose THREE correct answers.)

- A. usermod
- B. passwd
- C. chattr
- D. chage
- E. chsh

Answer: ABD

NEW QUESTION 141

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

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

Answer: ABC

NEW QUESTION 146

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 147

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 148

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/SIGHUP

NEW QUESTION 149

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 152

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 157

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 158

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

Answer: BCE

NEW QUESTION 161

CORRECT TEXT

What is the default name of the configuration file for the Xorg X11 server? (Specify the file name only without any path.)

A.

Answer: xorg.conf

NEW QUESTION 163

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 168

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