

Linux-Foundation

Exam Questions LFCS

Linux Foundation Certified System Administrator



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

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 3

What is true regarding the command userdel --force --remove bob? (Choose TWO correct answers.)

- A. The user bob is removed from the system's user database.
- B. The user bob's home directory is removed.
- C. The locate database is updated to drop files owned by bob.
- D. All files owned by bob are removed from all mounted filesystems.
- E. In case bob was the last member of a group, that group is deleted.

Answer: AB

NEW QUESTION 4

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 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

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 7

Which of the following commands can be used to locate programs and their corresponding man pages and configuration files?

- A. dirname
- B. which
- C. basename
- D. query
- E. whereis

Answer: E

NEW QUESTION 8

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 9

Which configuration file would be edited to change the default options for outbound SSH sessions?

- A. /etc/ssh/sshd_config
- B. /etc/ssh/ssh
- C. /etc/ssh/client
- D. /etc/ssh/ssh_config
- E. /etc/ssh/ssh_client

Answer: D

NEW QUESTION 10

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 10

Which of the following commands displays the contents of a gzip compressed tar archive?

- A. gzip archive.tar | tar xvf -
- B. tar ztf archive.tar
- C. gzip -d archive.tar | tar tvf -
- D. tar cf archive.tar

Answer: B

NEW QUESTION 12

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 17

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 20

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 23

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 28

Which of the following keywords can be used in the file `/etc/resolv.conf`? (Choose TWO correct answers.)

- A. substitute
- B. nameserver
- C. search
- D. lookup
- E. method

Answer: BC

NEW QUESTION 29

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. Match the preceding qualifier zero or one times.
- D. Match a literal `?` character.

Answer: C

NEW QUESTION 31

Which of the following commands will help identify a broken router between the local and the remote machine?

- A. ps
- B. netstat
- C. nslookup
- D. ifconfig
- E. traceroute

Answer: E

NEW QUESTION 33

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 34

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 38

The output of the program `date` should be saved in the variable `actdat`. What is the correct statement?

- A. actdat=`date`
- B. set actdat='date'
- C. date | actdat
- D. date > \$actdat
- E. actdat=date

Answer: A

NEW QUESTION 40

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 45

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 49

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.lstgrub.confgrub.cfg

NEW QUESTION 54

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

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

Answer: AC

NEW QUESTION 57

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 60

Creating a hard link to an ordinary file returns an error. What could be the reason for this?

- A. The source file is hidden.
- B. The source file is read-only.
- C. The source file is a shell script.
- D. The source file is already a hard link.
- E. The source and the target are on different filesystems.

Answer: E

NEW QUESTION 65

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 66

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 67

Which of the following Linux filesystems preallocates a fixed number of inodes at the filesystem's make/creation time and does NOT generate them as needed? (Choose TWO correct answers.)

- A. ext3
- B. JFS
- C. ext2
- D. XFS
- E. procfs

Answer: AC

NEW QUESTION 68

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 72

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 74

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 76

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 81

Which of the following statements is valid in the file /etc/nsswitch.conf?

- A. multi on
- B. 192.168.168.4 dns-server

- C. hosts: files dns
- D. include /etc/nsswitch.d/

Answer: C

NEW QUESTION 86

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. day, month and year) but not the time (i. hours, minutes, seconds).
- C. day, month and year) but not the time (i. hours, minutes, seconds).
- 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 89

Each entry in a crontab must end with what character?

- A. Tab
- B. Space
- C. Backslash
- D. Newline

Answer: D

NEW QUESTION 91

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 95

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 99

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 103

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 108

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.

Answer: C

NEW QUESTION 109

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 112

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 114

What is true regarding TCP port 23?

- A. Port 23 is the well known port for the telnet service which is a plain text protocol that should no longer be used.
- B. Port 23 is the well known port for the SSH service which provides secure logins.
- C. Port 23 is the well known port for the rlogin service which is SSL secured by default.
- D. Port 23 is the well known port for the system login services which are encrypted when the user runs the starttls command in his login shell.

Answer: A

NEW QUESTION 119

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 122

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 126

Which of the following characters can be combined with a separator string in order to read from the current input source until the separator string, which is on a separate line and without any trailing spaces, is reached?

- A. <<
- B. <|
- C. !<
- D. &<

Answer: A

NEW QUESTION 131

Which of the following information is stored within the BIOS? (Choose TWO correct answers.)

- A. Boot device order
- B. Linux kernel version
- C. Timezone
- D. Hardware configuration
- E. The system's hostname

Answer: AD

NEW QUESTION 134

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 139

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 143

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

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

Answer: ABC

NEW QUESTION 147

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 148

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 151

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 154

Why is the correct configuration of a system's time zone important?

- A. Because the conversion of Unix timestamps to local time relies on the time zone configuration.
- B. Because the time zone is saved as part of the modification times of files and cannot be changed after a file is created.
- C. Because the environment variables LANG and LC_MESSAGES are, by default, set according to the time zone.
- D. Because NTP chooses servers nearby based on the configured time zone.

Answer: A

NEW QUESTION 158

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