

# Linux-Foundation

## Exam Questions LFCS

Linux Foundation Certified System Administrator



#### NEW QUESTION 1

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 2

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 3

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 4

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 5

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 6

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 7

Which file contains the date of the last change of a user's password?

- A. /etc/gshadow
- B. /etc/passwd
- C. /etc/pwdlog
- D. /etc/shadow
- E. /var/log/shadow

**Answer:** D

#### NEW QUESTION 8

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 9

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 10

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 10

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 11

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 16

How can the existing environment variable FOOBAR be suppressed for the execution of the script ./myscript only?

- A. unset -v FOOBAR;./myscript
- B. set -a FOOBAR="";./myscript
- C. env -u FOOBAR./myscript
- D. env -i FOOBAR./myscript

**Answer:** C

#### NEW QUESTION 20

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 22

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 23

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 27

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 30

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 31

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 35

Which of the following files, when existing, affect the behavior of the Bash shell? (Choose TWO correct answers.)

- A. ~/.bashconf
- B. ~/.bashrc
- C. ~/.bashdefaults
- D. ~/.bash\_etc
- E. ~/.bash\_profile

**Answer:** BE

#### NEW QUESTION 40

Which of the following commands lists the dependencies of a given dpkg package?

- A. apt-cache depends-on package
- B. apt-cache dependencies package
- C. apt-cache depends package
- D. apt-cache requires package

**Answer:** C

#### NEW QUESTION 43

Which of the following commands determines the type of a file by using a definition database file which contains information about all common file types?

- A. magic
- B. type

- C. file
- D. pmagic
- E. hash

**Answer:** C

**NEW QUESTION 46**

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 50**

CORRECT TEXT

Please specify the top directory containing the configuration files for the CUPS printing system. (Specify the full path to the directory.)

A.

**Answer:** /etc/cups/etc/cups/

**NEW QUESTION 54**

CORRECT TEXT

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

A.

**Answer:** 1024

**NEW QUESTION 55**

CORRECT TEXT

Which command displays a list of all background tasks running in the current shell? (Specify ONLY the command without any path or parameters.)

A.

**Answer:** jobs

**NEW QUESTION 57**

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 61**

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 64**

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 65**

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 66

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 68

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 72

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 76

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 79

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 84

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 87

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 88

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 89

CORRECT TEXT

Which environment variable should be set in order to change the time zone for the commands run from within the environment variable's scope? (Specify the variable name only.)

- A.

**Answer:** TZ

#### NEW QUESTION 90

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 93

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 98

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 100

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 105

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 107

CORRECT TEXT

Which command can be used to investigate the properties for a particular window in X by clicking that window? (Specify ONLY the command without any path or parameters.)

A.

**Answer:** /usr/bin/xwininfoxwininfo

#### NEW QUESTION 112

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 114

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 118

Which of the following commands lists all currently installed packages when using RPM package management?

- A. yum --query --all
- B. yum --list --installed
- C. rpm --query --all
- D. rpm --list --installed

**Answer:** C

#### NEW QUESTION 122

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 123

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 125

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 128

CORRECT TEXT

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

A.

**Answer:** 443



#### NEW QUESTION 133

After successfully creating a hard link called bar to the ordinary file foo, foo is deleted from the filesystem. Which of the following describes the resulting situation?

- A. foo and bar would both be removed.
- B. foo would be removed while bar would remain accessible.
- C. foo would be remove
- D. bar would still exist but would be unusable.
- E. Both foo and bar would remain accessible.
- F. The user is prompted whether bar should be removed, too.

**Answer:** B

#### NEW QUESTION 136

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 140

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 142

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 147

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 acommand such as :set repetition=4 which repeats every subsequent command 4 times.

**Answer:** B

#### NEW QUESTION 148

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 151

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 154**

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 155**

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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