

# Linux Foundation

## Exam LFCS

Linux Foundation Certified System Administrator

Version: 5.0

[ Total Questions: 260 ]

**Question No : 1**

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. The `-e` option tests for an empty file.
- C. Both options check the existence of the path. The `-f` option also confirms that it is a regular file.
- D. The `-f` option tests for a regular file. The `-e` option tests for an executable file.

**Answer: C**

**Question No : 2**

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**

**Question No : 3**

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**

**Question No : 4**

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

**Answer: C**

**Question No : 5 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.)

**Answer: l**

**Question No : 6**

What is true regarding a default route?

- A.** The default route is always used first. When the default route is not available more specific routes are tried.
- B.** When a default route is set, all other routes are disabled until the default route is deleted.
- C.** The default route is only used if there is not a more specific route to a destination host or network.
- D.** Without a default route, no network communication even in directly attached networks is possible.

**Answer: C**

**Question No : 7**

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**

**Question No : 8**

Which approach will provide a listing of the contents in a tar archive?

- A. Use the tar command with -t.
- B. Use the grep command.
- C. Use the find command.
- D. Use the zless command.
- E. Use the zlist command.

**Answer: A**

**Question No : 9**

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**

**Question No : 10**

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**

**Question No : 11 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.)

**Answer: cmdline, /proc/cmdline**

**Question No : 12**

Which of the following is a legacy program provided by CUPS for sending files to the printer queues on the command line?

- A. lpd
- B. lpp
- C. lpq
- D. lpr

**Answer: D**

**Question No : 13**

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

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

**Answer: E**

**Question No : 14**

Which file used by XDM specifies the default wallpaper?

- A. /etc/X11/xdm/Xsetup
- B. /etc/X11/xdm.conf
- C. /etc/X11/xdm/Defaults
- D. /etc/X11/defaults.conf

**Answer: A**

**Question No : 15**

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**

**Question No : 16**

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**

**Question No : 17**

The X11 configuration file `xorg.conf` is grouped into sections. How is the content of the section `SectionName` associated with that section?

- A. It is placed in curly brackets as in `Section SectionName { ... }`.
- B. It is placed between a line containing `Section "SectionName"` and a line containing `EndSection`.
- C. It is placed between the tags `<Section name="SectionName">` and `</Section>`
- D. It is placed after the row `[SectionName]`.
- E. It is placed after an initial unindented `Section "SectionName"` and must be indented by exactly one tab character.

**Answer: B**

**Question No : 18**

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**

**Question No : 19**

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**

**Question No : 20**

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**

**Question No : 21**

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: A,B,D**



**Question No : 22 CORRECT TEXT**

What command displays all aliases defined in the current shell? (Specify the command without any path information)

**Answer:** alias, alias -p

**Question No : 23 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.)

**Answer:** jobs

**Question No : 24**

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

**Question No : 25**

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**

**Question No : 26**

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**

**Question No : 27**

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**

**Question No : 28**

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.