



# LPI

## Exam Questions 010-160

Linux Essentials Certificate Exam - version 1.6

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#### NEW QUESTION 1

The current directory contains the following file:

```
-rw-r--r-- 1 root exec 24551 Apr 2 12:36 test.sh
```

The file contains a valid shell script, but executing this file using `./test.sh` leads to this error: `bash: ./test.sh: Permission denied`

What should be done in order to successfully execute the script?

- A. The file's extension should be changed from `.sh` to `.bin`.
- B. The execute bit should be set in the file's permissions.
- C. The user executing the script should be added to the `exec` group.
- D. The SetUID bit should be set in the file's permissions
- E. The script should be run using `#!/tes`
- F. `sh` instead of `./test.sh`.

**Answer: B**

#### NEW QUESTION 2

Which of the following characters in a shell prompt indicates the shell is running with root privileges?

- A. !
- B. #
- C. \*
- D. &
- E. \$

**Answer: B**

#### NEW QUESTION 3

Which of the following directories must be mounted with read and write access if it resides on its own dedicated file system?

- A. `/opt`
- B. `/lib`
- C. `/etc`
- D. `/var`
- E. `/usr`

**Answer: D**

#### NEW QUESTION 4

What is the preferred source for the installation of new applications in a Linux based operating system?

- A. The vendor's version management system
- B. A CD-ROM disk
- C. The distribution's package repository
- D. The vendor's website
- E. A retail store

**Answer: C**

#### NEW QUESTION 5

Which of the following statements is true about Free Software?

- A. It is developed by volunteers only.
- B. It may be modified by anyone using it.
- C. It must always be available free of charge.
- D. It only runs on Linux.
- E. It is only distributed as a compiled binary.

**Answer: B**

#### NEW QUESTION 6

Which of the following commands sorts the output of the command `export-logs`?

- A. `export-logs < sort`
- B. `export-logs > sort`
- C. `export-logs & sort`
- D. `export-logs | sort`
- E. `export-logs <> sort`

**Answer: D**

#### NEW QUESTION 7

Which of the following permissions are set on the `/tmp/` directory?

- A. `rxwxrwt`
- B. `-----rwx`

- C. rwSrW-rw
- D. rwxrwS--
- E. r-xr-X--t

**Answer:** A

#### NEW QUESTION 8

What is a Linux distribution?

- A. The Linux file system as seen from the root account after mounting all file systems.
- B. A bundling of the Linux kernel, system utilities and other software.
- C. The set of rules which governs the distribution of Linux kernel source code.
- D. An operating system based on Linux but incompatible to the regular Linux kernel.
- E. A set of changes to Linux which enable Linux to run on another processor architecture.

**Answer:** B

#### NEW QUESTION 9

The ownership of the file doku.odt should be changed. The new owner is named tux. Which command accomplishes this change?

- A. chmod u=tux doku.odt
- B. newuser doku.odt tux
- C. chown tux doku.odt
- D. transfer tux: doku.odt
- E. passwd doku.odt:tux

**Answer:** C

#### NEW QUESTION 10

What is true about a recursive directory listing?

- A. It includes the content of sub-directories.
- B. It includes the permissions of the directory listed.
- C. It includes details of file system internals, such as inodes.
- D. It includes ownership information for the files.
- E. It includes a preview of content for each file in the directory.

**Answer:** A

#### NEW QUESTION 10

Which of the following commands sets the variable USERNAME to the value bob?

- A. set USERNAME bob
- B. \$USERNAME==bob
- C. var USERNAME=bob
- D. USERNAME<=bob
- E. USERNAME=bob

**Answer:** E

#### NEW QUESTION 13

Which of the following programs is a graphical editor for vector graphics?

- A. Python
- B. NGINX
- C. Samba
- D. Inkscape
- E. MySQL

**Answer:** D

#### NEW QUESTION 14

Which of the following DNS record types hold an IP address? (Choose two.)

- A. NS
- B. AAAA
- C. MX
- D. A
- E. CNAME

**Answer:** CD

#### NEW QUESTION 19

Which of the following tar options handle compression? (Choose two correct answers.)

- A. -bz
- B. -z
- C. -g
- D. -j
- E. -z2

**Answer:** BD

#### NEW QUESTION 22

Which of the following commands puts the lines of the file data.csv into alphabetical order?

- A. a..z data.csv
- B. sort data.csv
- C. abc data.csv
- D. wc -s data.csv
- E. grep --sort data.csv

**Answer:** B

#### NEW QUESTION 27

Which command copies the contents of the directory /etc/, including all sub-directories, to /root/?

- A. copy /etc /root
- B. cp -r /etc/\* /root
- C. cp -v /etc/\* /root
- D. rcp /etc/\* /root
- E. cp -R /etc/\*.\* /root

**Answer:** B

#### NEW QUESTION 28

Which of the following directories contains information, documentation and example configuration files for installed software packages?

- A. /usr/share/doc/
- B. /etc/defaults/
- C. /var/info/
- D. /doc/
- E. /usr/examples/

**Answer:** A

#### NEW QUESTION 31

Which operator in a regular expression matches the preceding character either zero or one time?

- A. ?
- B. \*
- C. +
- D. %
- E. \$

**Answer:** A

#### NEW QUESTION 36

Which of the following values could be a process ID on Linux?

- A. /bin/bash
- B. 60b503cd-019e-4300-a7be-922f074ef5ce
- C. /sys/pid/9a14
- D. fff3
- E. 21398

**Answer:** E

#### NEW QUESTION 39

What is the UID of the user root?

- A. 1
- B. -1
- C. 255
- D. 65536

**Answer:** E

#### NEW QUESTION 42

Which of the following commands will search for the file foo.txt under the directory /home?

- A. search /home -file foo.txt
- B. search /home fo
- C. txt
- D. find /home - file foo.txt
- E. find /home -name foo.txt
- F. find /home foo.txt

**Answer:** D

#### NEW QUESTION 46

Which of the following programs are web servers? (Choose two.)

- A. Apache HTTPD
- B. Postfix
- C. Curl
- D. Dovecot
- E. NGINX

**Answer:** AE

#### NEW QUESTION 49

Which of the following commands creates an archive file work.tar from the contents of the directory ./work/?

- A. tar --new work.tar ./work/
- B. tar -cf work.tar ./work/
- C. tar -create work.tgz -content ./work/
- D. tar work.tar < ./work/
- E. tar work > work.tar

**Answer:** B

#### NEW QUESTION 50

Which of the following commands finds all lines in the file operating-systems.txt which contain the term linux, regardless of the case?

- A. igrep linux operating-systems.txt
- B. less -i linux operating-systems.txt
- C. grep -i linux operating-systems.txt
- D. cut linux operating-systems.txt
- E. cut [L] [li] [Nn] [Uu] [Xx] operating-systems.txt

**Answer:** C

#### NEW QUESTION 54

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What keyword is used in a shell script to begin a loop? (Specify one keyword only, without any additional information.)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

for

#### NEW QUESTION 56

Which permissions are set on a regular file once the permissions have been modified with the command chmod 654 file.txt?

- A. drw-r-xr-
- B. d-wxr-x-
- C. -wxr-x--x
- D. -rwxrw---x
- E. -rw-r-xr-

**Answer:** E

#### NEW QUESTION 58

What is true about the owner of a file?

- A. Each file is owned by exactly one user and one group.
- B. The owner of a file always has full permissions when accessing the file.
- C. The user owning a file must be a member of the file's group.
- D. When a user is deleted, all files owned by the user disappear.
- E. The owner of a file cannot be changed once it is assigned to an owner.

**Answer:** A

### NEW QUESTION 63

What is true about links in a Linux file system?

- A. A symbolic link can only point to a file and not to a directory.
- B. A hard link can only point to a directory and never to a file.
- C. When the target of the symbolic link is moved, the link is automatically updated.
- D. A symbolic link can point to a file on another file system.
- E. Only the root user can create hard links.

**Answer:** D

### NEW QUESTION 65

Which of the following is a protocol used for automatic IP address configuration?

- A. NFS
- B. LDAP
- C. SMTP
- D. DNS
- E. DHCP

**Answer:** E

### NEW QUESTION 70

Which of the following commands adds the directory /new/dir/ to the PATH environment variable?

- A. \$PATH=/new/dir: \$PATH
- B. PATH=/new/dir: PATH
- C. export PATH=/new/dir: PATH
- D. export \$PATH=/new/dir: \$PATH
- E. export PATH=/new/dir: \$PATH

**Answer:** E

### NEW QUESTION 75

What parameter of ls prints a recursive listing of a directory's content? (Specify ONLY the option name without any values or parameters.)

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

ls -R

### NEW QUESTION 80

When typing a long command line at the shell, what single character can be used to split a command across multiple lines?

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

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### NEW QUESTION 82

Which of the following keys can be pressed to exit less?

- A. l
- B. x
- C. e
- D. q
- E. !

**Answer:** D

### NEW QUESTION 83

Which of the following commands extracts the contents of the compressed archive file1.tar.gz?

- A. tar -czf file1.tar.gz
- B. ztar file1.tar.gz
- C. tar -xzf file1.tar.gz
- D. tar --extract file1.tar.gz
- E. detar file1.tar.gz

**Answer:** C

#### NEW QUESTION 87

Which of the following types of bus can connect hard disk drives with the motherboard?

- A. The RAM bus
- B. The NUMA bus
- C. The CPU bus
- D. The SATA bus
- E. The Auto bus

**Answer: D**

#### NEW QUESTION 92

What information can be displayed by top?

- A. Existing files, ordered by their size.
- B. Running processes, ordered by CPU or RAM consumption.
- C. User accounts, ordered by the number of logins.
- D. User groups, ordered by the number of members.
- E. User accounts, ordered by the number of files.

**Answer: B**

#### NEW QUESTION 94

A directory contains the following three files:

texts 1.txt  
texts 2.txt  
texts 3.csv

Which command copies the two files ending in .txt to the /tmp/ directory?

- A. cp ?? .txt /tmp/
- B. cp \*.txt /tmp/
- C. c
- D. \.txt /tmp/
- E. cp ? .txt /tmp/
- F. cp \$?.txt /tmp/

**Answer: B**

#### NEW QUESTION 95

Members of a team already have experience using Red Hat Enterprise Linux. For a small hobby project, the team wants to set up a Linux server without paying for a subscription. Which of the following Linux distributions allows the team members to apply as much of their Red Hat Enterprise Linux knowledge as possible?

- A. Ubuntu Linux LTS
- B. Raspbian
- C. Debian GNU/Linux
- D. CentOS
- E. openSUSE

**Answer: D**

#### NEW QUESTION 97

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