



**LPI**

## **Exam Questions 010-160**

Linux Essentials Certificate Exam - version 1.6

#### 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

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 3

Which of the following commands are used to get information on the proper use of `ls`? (Choose two correct answers.)

- A. `option ls`
- B. `usage ls`
- C. `manual ls`
- D. `man ls`
- E. `info ls`

**Answer:** DE

#### NEW QUESTION 4

Which of the following devices represents a hard disk partition?

- A. `/dev/ttyS0`
- B. `/dev/sata0`
- C. `/dev/part0`
- D. `/dev/sda2`
- E. `/dev/sda/p2`

**Answer:** D

#### NEW QUESTION 5

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 6

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 7

Which of the following commands output the content of the file `Texts 2.txt`? (Choose two.)

- A. `cat 'Texts 2.txt'`
- B. `cat -- Texts 2.txt`

- C. cat |Texts 2.txt|
- D. cat 'Texts\ 2.txt'
- E. cat Texts\ 2.txt

**Answer:** AB

#### NEW QUESTION 8

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 9

Why are web browser cookies considered dangerous?

- A. Cookies support identification and tracking of users.
- B. Cookies are always public and accessible to anyone on the internet.
- C. Cookies consume significant amounts of storage and can exhaust disk space.
- D. Cookies store critical data which is lost when a cookie is deleted.
- E. Cookies can contain and execute viruses and malware.

**Answer:** A

#### NEW QUESTION 10

Which of the following commands shows the absolute path to the current working directory?

- A. who
- B. cd ..
- C. pwd
- D. ls -l
- E. cd ~/home

**Answer:** C

#### NEW QUESTION 10

A directory contains the following files:

a.txt

b.txt

c.cav

What would be the output of the following shell script? for file in \*.txt

```
do
    echo $file
done
```

- A. \*.txt
- B. a b
- C. c.cav
- D. A.txt
- E. txt
- F. txt

**Answer:** E

#### NEW QUESTION 14

What is the UID of the user root?

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

**Answer:** E

#### NEW QUESTION 17

What is the return value of a shell script after successful execution?

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

**Answer:** B

#### NEW QUESTION 22

What information is stored in /etc/passwd? (Choose three correct answers.)

- A. The user's storage space limit
- B. The numerical user ID
- C. The username
- D. The encrypted password
- E. The user's default shell

**Answer:** BCD

#### NEW QUESTION 26

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 31

Which of the following commands can be used to resolve a DNS name to an IP address?

- A. dnsname
- B. dns
- C. query
- D. host
- E. Iplookup

**Answer:** D

#### NEW QUESTION 34

Reverse DNS assigns hostnames to IP addresses. How is the name of the IP address 198.51.100.165 stored on a DNS server?

- A. In the A record for 165.100.51.198.ipv4.arpa.
- B. In the PTR record for 165.100.51.198.in-addr.arpa.
- C. In the RNAME record for 198-51-100-165.rev.arpa.
- D. In the ARPA record for 165.100.51.198.rev.
- E. In the REV record for arpa.in-addr.198.51.100.165.

**Answer:** B

#### NEW QUESTION 36

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 41

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 46

A user is currently in the directory /home/user/Downloads/ and runs the command ls ../Documents/ Assuming it exists, which directory's content is displayed?

- A. /home/user/Documents/
- B. /home/user/Documents/Downloads/
- C. /home/user/Downloads/Documents/
- D. /Documents/
- E. /home/Documents

**Answer:** D

#### NEW QUESTION 49

What is true about the dmesg command? (Choose two correct answers.)

- A. It traces the execution of a command and shows each step the program carries out.
- B. It sends messages to the command lines of all current user sessions.
- C. It displays the content of the Linux kernel's ring buffer.
- D. It immediately outputs all new messages written to the system journal.
- E. It might not display older information because it was overwritten by newer information.

**Answer:** CE

#### NEW QUESTION 54

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 59

A new server needs to be installed to host services for a period of several years. Throughout this time, the server should receive important security updates from its Linux distribution.

Which of the following Linux distributions meet these requirements? (Choose two.)

- A. Ubuntu Linux LTS
- B. Fedora Linux
- C. Debian GNU/Linux Unstable
- D. Ubuntu Linux non-LTS
- E. Red Hat Enterprise Linux

**Answer:** AE

#### NEW QUESTION 62

What are the differences between hard disk drives and solid state disks? (Choose two correct answers.)

- A. Hard disks have a motor and moving parts, solid state disks do not.
- B. Hard disks can fail due to physical damage, while solid state disks cannot fail.
- C. Solid state disks can store many times as much data as hard disk drives.
- D. /dev/sda is a hard disk device while /dev/ssda is a solid state disk.
- E. Solid state disks provide faster access to stored data than hard disks.

**Answer:** AE

#### NEW QUESTION 66

The file script.sh in the current directory contains the following content:

```
#!/bin/bash echo $MYVAR
```

The following commands are used to execute this script: MYVAR=value

```
./script.sh
```

The result is an empty line instead of the content of the variable MYVAR. How should MYVAR be set in order to make script.sh display the content of MYVAR?

- A. !MYVAR=value
- B. env MYVAR=value
- C. MYVAR=value
- D. \$MYVAR=value
- E. export MYVAR=value

**Answer:** E

#### NEW QUESTION 67

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 70

What happens to a file residing outside the home directory when the file owner's account is deleted? (Choose two.)

- A. During a file system check, the file is moved to /lost +found.
- B. The file is removed from the file system.
- C. The UID of the former owner is shown when listing the file's details.
- D. The user root is set as the new owner of the file.
- E. Ownership and permissions of the file remain unchanged.

Answer: CE

#### NEW QUESTION 75

Which of the following outputs comes from the command free?

- A. A. 21:04:15 up 14 days, 7:43, 3 users, load average: 0.89, 1.00, 0.99
- B. 

```
avg-cpu:  %user   %nice   %system %iowait  %steal   %idle
           34.04    0.03    13.88    1.06    0.00    50.99
```
- C. 

```
Filesystem            Size      Used      Avail   Use%   Mounted on
/dev/mapper/vg_ssd-  25G       20G       3.6G     85%    /
root
```
- D. 1.8M /tmp
- E. 

```
total      used      free      shared  buff/cache  available
Mem:  16123128 12565680 2011624  412128  1545824    7180416
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Answer: E

#### NEW QUESTION 79

Most commands on Linux can display information on their usage. How can this information typically be displayed?

- A. By running the command with the option /? or /??.
- B. By running the command with the option ?! or ?=!.
- C. By running the command with the option /doc or /documentation.
- D. By running the command with the option -h or --help.
- E. By running the command with the option -m or --manpage.

Answer: E

#### NEW QUESTION 80

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