

## 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

What is the purpose of the `PATH` environment variable?

- A. It allows the execution of commands without the need to know the location of the executable.
- B. It increases security by preventing commands from running in certain locations.
- C. It specifies the location of a user's home directory.
- D. It indicates the location of the default shell to be used when a user logs in.
- E. It contains the absolute path to the current directory.

**Answer:** A

#### NEW QUESTION 3

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 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 examples shows the general structure of a `for` loop in a shell script?

- A. `for *.txt as file => echo $file`
- B. `for *.txt ( echo $i )`
- C. `for file in *.txt do echo $i done`
- D. `for ls *.txt exec {} \;`
- E. `foreach @{file} { echo $i }`

**Answer:** C

#### 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

The current directory contains the following file:

```
-rwxr-xr-x 1 root root 859688 Feb 7 08:15 test.sh
```

Given that the file is a valid shell script, how can this script be executed? (Choose two correct answers.)

- A. run test.sh
- B. \${test.sh}
- C. cmd ./test.sh
- D. ./test.sh
- E. bash test.sh

**Answer:** DE

#### NEW QUESTION 8

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 9

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 10

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 10

What is true about the su command?

- A. It is the default shell of the root account.
- B. It can only be used by the user root.
- C. It runs a shell or command as another user.
- D. It changes the name of the main administrator account.
- E. It locks the root account in specific time frames.

**Answer:** C

#### NEW QUESTION 15

Which of the following tasks can the command passwd accomplish? (Choose two.)

- A. Change a user's username.
- B. Change a user's password.
- C. Create a new user account.
- D. Create a new user group.
- E. Lock a user account.

**Answer:** CE

#### NEW QUESTION 20

Which command displays file names only and no additional information?

- A. ls -a
- B. ls -lh
- C. ls -l
- D. ls -alh
- E. ls -nl

**Answer:** A

#### NEW QUESTION 22

Which of the following commands creates the ZIP archive poems.zip containing all files in the current directory whose names end in .txt?

- A. zip \*.txt > poems.zip
- B. zcat \*.txt poems.zip
- C. zip poems.zip \*.txt
- D. zip cfz poems.zip \*.txt
- E. cat \*.txt | zip poems.zip

**Answer:** C

#### NEW QUESTION 26

Which of the following statements are true regarding a typical shell script? (Choose two.)

- A. It has the executable permission bit set.
- B. It starts with the two character sequence #!.
- C. It is located in /usr/local/scripts/.
- D. It is located in /etc/bash/scripts/.
- E. It is compiled into a binary file compatible with the current machine architecture.

**Answer:** AE

#### NEW QUESTION 29

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 32

What command displays manual pages? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

man

#### NEW QUESTION 37

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 38

What is the UID of the user root?

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

**Answer:** E

#### NEW QUESTION 39

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

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

**Answer:** B

#### NEW QUESTION 44

Which of the following are typical services offered by public cloud providers? (Choose three correct answers.)

- A. Platform as a Service(PaaS)
- B. Infrastructure as a Service(IaaS)
- C. Internet as a Service(IaaS)
- D. Graphics as a Service (GaaS)
- E. Software as a Service (SaaS)

**Answer:** ABE

#### NEW QUESTION 49

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 51

Where is the operating system of a Raspberry Pi stored?

- A. On the master device attached to the Raspberry Pi's IDE bus.
- B. On a read only partition on the Raspberry Pi's firmware, next to the BIOS.
- C. On a removable SD card which is put into the Raspberry Pi.
- D. On a Linux extension module connected to the Raspberry Pi's GPIO pins.
- E. On rewritable flash storage which is built into the Raspberry Pi.

**Answer:** C

#### NEW QUESTION 54

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 55

FILL BLANK

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 58

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 59

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 61

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 65

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 70

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 74

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 75

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 76

Which command adds the new user `tux` and creates the user's home directory with default configuration files?

- A. `defaultuser tux`

- B. useradd -m tux
- C. usercreate tux
- D. useradd -o default tux
- E. passwd -a tux

**Answer:** B

#### NEW QUESTION 77

What can be found in the /proc/ directory?

- A. One directory per installed program.
- B. One device file per hardware device.
- C. One file per existing user account.
- D. One directory per running process.
- E. One log file per running service.

**Answer:** D

#### NEW QUESTION 79

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 80

What is defined by a Free Software license?

- A. Details of the technical documentation each contributor has to provide.
- B. The programming languages which may be used to extend the licensed program.
- C. A complete list of libraries required to compile the licensed software.
- D. Limits on the purposes for which the licensed software may be used.
- E. Conditions for modifying and distributing the licensed software.

**Answer:** E

#### NEW QUESTION 81

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