Exam Code: 010-160

Exam Name: Linux Essentials Certificate Exam, version 1.6

Exam A

QUESTION 1
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

Correct Answer: C
Section:

QUESTION 2
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 [Ll] [Ii] [Nn] [Uu] [Xx] operating-systems.txt

Correct Answer: C
Section:

QUESTION 3
Which one of the following statements concerning Linux passwords is true?

A. All passwords can be decrypted using the system administrator's master password.

B. Passwords may never start with a non-letter.

C. Users cannot change their password once it has been set.

D. Passwords are only stored in hashed form.

E. Passwords may be at most six characters long.

Correct Answer: D
Section:

QUESTION 4
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.

Correct Answer: B
Section:

QUESTION 5
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

Correct Answer: D
Section:

QUESTION 6
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
```

Correct Answer: E
Section:

QUESTION 7
What is true about the dmesg command? (Choose two.)

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.

Correct Answer: C, E

Section:

QUESTION 8
Which of the following outputs could stem from the command last?

A. 1 ls
   2 cat text.txt
   3 logout
B. Password for user last changed at Sat Mar 31 16:38:57 EST 2018
C. Last login: Fri Mar 23 10:56:39 2018 from server.example.com
D. EXT4-fs (dm-7): mounted filesystem with ordered data mode. Opts: (null)
E. root   tty2   Wed May 17 21:11 - 21:11   (00:00)

Correct Answer: E
Section:

QUESTION 9
What is the UID of the user root?

A. 1
B. -1
C. 255
D. 65536
E. 0

Correct Answer: E
Section:

QUESTION 10
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--

Correct Answer: E
Section:

QUESTION 11
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.

Correct Answer: A
Section:

QUESTION 12
Which of the following permissions are set on the /tmp/ directory?

A. rwxrwxrwt

B. ------rwX

C. rwSrw-rw

D. rwxrwS---

E. r-xr-X--t

Correct Answer: A
Section:

QUESTION 13
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

Correct Answer: B
Section:

QUESTION 14
What information is stored in /etc/passwd? (Choose three.)

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

Correct Answer: B, C, D
Section:

QUESTION 15
Which of the following tar options handle compression? (Choose two.)

A. -bz

B. -z

C. -g

D. -j

E. -z2

Correct Answer: B, D
Section:

QUESTION 16
FILL BLANK
What keyword is used in a shell script to begin a loop? (Specify one keyword only, without any additional information.)

A. for

Correct Answer: A
Section:

QUESTION 17
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

Correct Answer: B
Section:

QUESTION 18
Which of the following keys can be pressed to exit less?

A. l

B. x

C. e

D. q

E. !

Correct Answer: D
Section:

QUESTION 19
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.)

A. run test.sh

B. ${test.sh}

C. cmd ./test.sh

D. ./test.sh

E. bash test.sh

Correct Answer: D, E
Section:

QUESTION 20
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

Correct Answer: D
Section:

QUESTION 21
A directory contains the following files:

```
do

    echo $file

done
```

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

A. *.txt

B. a b

C. c.cav

D. a.txt

E. a. txt b. txt

Correct Answer: E
Section:

QUESTION 22
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 foo. txt

C. find /home - file foo.txt

D. find /home -name foo.txt

E. find /home foo.txt

Correct Answer: D

Section:

QUESTION 23
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 #!./test. sh instead of ./test.sh.

Correct Answer: B
Section:

QUESTION 24
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.

Correct Answer: B
Section:

QUESTION 25
Which package management tool is used in Red Hat-based Linux Systems?

A. portage

B. rpm

C. apt-get

D. dpkg

E. packagectl

Correct Answer: B
Section:

QUESTION 26
Which of the following programs is a graphical editor for vector graphics?

A. Python

B. NGINX

C. Samba

D. Inkscape

E. MySQL

Correct Answer: D
Section:

QUESTION 27
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.

Correct Answer: C
Section:

QUESTION 28
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.

Correct Answer: E
Section:

QUESTION 29
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.

Correct Answer: A
Section:

QUESTION 30
Which of the following are typical services offered by public cloud providers? (Choose three.)

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)

Correct Answer: A, B, E
Section:

QUESTION 31
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

Correct Answer: E
Section:

QUESTION 32
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

Correct Answer: D
Section:

QUESTION 33
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. cp. \.txt /tmp/

D. cp ?.txt /tmp/

E. cp $?.txt /tmp/

Correct Answer: B
Section:

QUESTION 34
FILL BLANK
When typing a long command line at the shell, what single character can be used to split a command across multiple lines?

A. \

Correct Answer: A
Section:

QUESTION 35
Which of the following DNS record types hold an IP address? (Choose two.)

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

Correct Answer: C, D
Section:

QUESTION 36
Which of the following programs are web servers? (Choose two.)

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

Correct Answer: A, E
Section:

QUESTION 37
Which of the following characters in a shell prompt indicates the shell is running with root privileges?

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

Correct Answer: B
Section:

QUESTION 38
Which of the following commands are used to get information on the proper use of ls? (Choose two.)

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

Correct Answer: D, E
Section:

QUESTION 39
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.

Correct Answer: A
Section:

QUESTION 40
Running the command rm Downloads leads to the following error: rm: cannot remove 'Downloads/': Is a directory
Which of the following commands can be used instead to remove Downloads, assuming Downloads is empty? (Choose two.)

A. undir Downloads
B. rmdir Downloads
C. dir -r Downloads
D. rem Downloads
E. rm -r Downloads

Correct Answer: B, E
Section:

QUESTION 41
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/

Correct Answer: A
Section:

QUESTION 42
Which of the following Linux Distributions is derived from Red Hat Enterprise Linux?

A. Raspbian
B. openSUSE
C. Debian
D. Ubuntu
E. CentOS

Correct Answer: E
Section: