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010-150

Linux Essentials Certificate Exam, version 1.5

Sections

1. The Linux Community and a Career in Open Source
2. Finding Your Way on a Linux System
3. The Power of the Command Line
4. The Linux Operating System
5. Security and File Permissions

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Exam A

QUESTION 1

Which of the following can be used to access the command line?



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- A. BIOS
- B. Terminal
- C. XWindow
- D. Firefox
- E. Xargs

Correct Answer: B

Section: The Linux Community and a Career in Open Source

Explanation

Explanation/Reference:

QUESTION 2

Which Linux distribution is used as a basis for the creation of Ubuntu Linux?

- A. Red Hat Linux
- B. Arch Linux
- C. SUSE Linux
- D. Gentoo Linux
- E. Debian Linux

Correct Answer: E

Section: The Linux Community and a Career in Open Source

Explanation

Explanation/Reference:

QUESTION 3

Which of the following programs is not a graphical web browser?

- A. Konqueror
- B. Firefox
- C. Links
- D. Opera
- E. Chrome

Correct Answer: C

Section: The Linux Community and a Career in Open Source

Explanation

Explanation/Reference:

QUESTION 4

Which of the following answers are true for cloud computing? (Choose TWO correct answers.)

- A. Cloud Computing provides new tools to manage IT resources.
- B. From the business perspective, Cloud Computing means outsourcing or centralization of IT operations.
- C. Cloud Computing is the opposite of green IT; i.e. the use of fossil, non-regenerative energy for computing.
- D. Cloud Computing implies sharing all information with everyone else in 'the cloud'.

Correct Answer: AB

Section: The Linux Community and a Career in Open Source

Explanation

Explanation/Reference:

QUESTION 5

Which of the following is a Linux based operating system for use on mobile devices?

- A. iOS
- B. CentOS
- C. Android

D. Debian

Correct Answer: C

Section: The Linux Community and a Career in Open Source

Explanation

Explanation/Reference:

QUESTION 6

Which one of the following is true about Open Source software?

- A. Open Source software can not be copied for free.
- B. Open Source software is available for commercial use.
- C. The freedom to redistribute copies must include binary or executable forms of the software but not the source code.
- D. Open Source software is not for sale.

Correct Answer: B

Section: The Linux Community and a Career in Open Source

Explanation

Explanation/Reference:

QUESTION 7

Which of the following is a requirement of the GPL license but not the BSD license?



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- A. Users who modify and distribute the software under the GPL license, must make the modifications they made, available to the recipients under the same license.
- B. The GPL license forbids the removal of copyright and license notices from source code files that are distributed.
- C. The GPL license contains a disclaimer of warranty requiring users not to hold the software authors liable for any damages.
- D. The GPL license requires that any legal disputes be settled with the mediation of the Free Software Foundation.

Correct Answer: A

Section: The Linux Community and a Career in Open Source

Explanation

Explanation/Reference:

QUESTION 8

What is the first character for file or directory names if they should not be displayed by commands such as ls unless specifically requested?

- A. \ (backslash)
- B. . (dot)
- C. - (minus)
- D. _ (underscore)

Correct Answer: B

Section: Finding Your Way on a Linux System

Explanation

Explanation/Reference:

QUESTION 9

Which of the following commands moves the directory ~/summer-vacation and its content to ~/vacation/2011?

- A. mv ~/vacation/2011 ~/summer-vacation
- B. move -R ~/summer-vacation ~/vacation/2011
- C. mv /home/summer-vacation /home/vacation/2011
- D. mv ~/summer-vacation ~/vacation/2011
- E. mv -R ~/summer-vacation ~/vacation/2011

Correct Answer: D

Section: Finding Your Way on a Linux System

Explanation

Explanation/Reference:

QUESTION 10

Which of the following commands can be used to create a file?

- A. touch
- B. build
- C. nico
- D. create
- E. mkfile

Correct Answer: A

Section: Finding Your Way on a Linux System

Explanation

Explanation/Reference:

QUESTION 11

Which option will cause the echo command NOT to output a trailing newline?

- A. -e
- B. -p
- C. -n
- D. -s

Correct Answer: C

Section: Finding Your Way on a Linux System

Explanation

Explanation/Reference:

QUESTION 12

Which commands provide help for a specific Linux command? (Choose TWO correct answers.)

- A. info
- B. man
- C. helpme
- D. ask
- E. whatdoes

Correct Answer: AB

Section: Finding Your Way on a Linux System

Explanation

Explanation/Reference:

QUESTION 13

Which is a suitable command to find the next appearance of the word hidden in a man page being viewed from the command line?

- A. find hidden
- B. /? hidden
- C. CTRL-F hidden
- D. /hidden

Correct Answer: D

Section: Finding Your Way on a Linux System

Explanation

Explanation/Reference:

QUESTION 14

While deleting all files beginning with the letter a there was still the file Access.txt left. Assuming that it had the correct ownership, why was it not deleted?

- A. Files with extensions need a different treatment.
- B. rm had to be called with the option -R to delete all files.
- C. The file Access.txt was probably opened by another application.
- D. The file Access.txt was hidden.
- E. Linux file names are case sensitive.

Correct Answer: E

Section: Finding Your Way on a Linux System

Explanation

Explanation/Reference:

QUESTION 15

Which command line can be used to search help files that mention the word "copy"?

- A. man -k copy
- B. whatis copy
- C. man copy
- D. copy help
- E. copy -help

Correct Answer: A

Section: Finding Your Way on a Linux System

Explanation

Explanation/Reference:

QUESTION 16

Which command is used to make a shell variable known to subsequently executed programs?



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- A. export
- B. announce
- C. env
- D. transfer
- E. mv

Correct Answer: A

Section: Finding Your Way on a Linux System

Explanation

Explanation/Reference:

QUESTION 17

Which command lists all files in the current directory that start with a capital letter?

- A. ls [A-Z]*
- B. ls A-Z
- C. ls A-Z*
- D. ls --uppercasefiles
- E. list-uppercase-files

Correct Answer: A

Section: Finding Your Way on a Linux System

Explanation

Explanation/Reference:

QUESTION 18

Which command shows if /usr/bin is in the current shell search path?

- A. cat PATH
- B. echo \$PATH
- C. echo %PATH
- D. cat \$PATH
- E. echo %PATH%

Correct Answer: B

Section: Finding Your Way on a Linux System

Explanation

Explanation/Reference:

QUESTION 19

Which of the following commands will display a list of all files in the current directory, including those that may be hidden?

- A. ls -a
- B. ls --hidden
- C. ls -h
- D. ls -a

Correct Answer: A

Section: Finding Your Way on a Linux System

Explanation

Explanation/Reference:

QUESTION 20

Which of the following commands increases the number of elements in a directory? (Choose TWO answers)

- A. touch newfile
- B. create newfile
- C. ls newfile
- D. rmdir newdirectory
- E. mkdir newdirectory

Correct Answer: AE

Section: Finding Your Way on a Linux System

Explanation

Explanation/Reference:

QUESTION 21

What command would you use to get comprehensive documentation about any command in Linux?

- A. help command
- B. echo command
- C. locate command
- D. man command
- E. get command

Correct Answer: D

Section: Finding Your Way on a Linux System

Explanation

Explanation/Reference:

QUESTION 22

How is it possible to determine if an executable file is a shell script which is read by Bash?

- A. The r bit is set.
- B. The file must end with .sh.
- C. The first line starts with #!/bin/bash.
- D. /bin/bash has to be run in debug mode.
- E. Scripts are never executable files.

Correct Answer: C

Section: The Power of the Command Line

Explanation

Explanation/Reference:

QUESTION 23

Which of the following commands can be used to view a file and do search operations within it while viewing the contents?

- A. less
- B. find
- C. grep
- D. report
- E. see

Correct Answer: A

Section: The Power of the Command Line

Explanation

Explanation/Reference:

QUESTION 24

Which function does a shell program serve?

- A. It provides a graphical environment.
- B. It is responsible for establishing a connection to another computer.

- C. It receives user commands and executes them.
- D. It is responsible for logging a user into the system.

Correct Answer: C

Section: The Power of the Command Line

Explanation

Explanation/Reference:

QUESTION 25

Which of the following commands can be used to extract files from an archive?

- A. tar -vf
- B. tar -xvf
- C. tar -evf
- D. tar -e
- E. tar -v

Correct Answer: B

Section: The Power of the Command Line

Explanation

Explanation/Reference:

QUESTION 26

How could one 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: The Power of the Command Line

Explanation

Explanation/Reference:

QUESTION 27

What is the output of the following command?

```
tail -n 20 test.txt
```

- A. The first 20 lines of test.txt.
- B. The last 20 lines of test.txt omitting the blank lines.
- C. The last 20 lines of test.txt with line numbers.
- D. The last 20 lines of test.txt including blank lines.

Correct Answer: D

Section: The Power of the Command Line

Explanation

Explanation/Reference:

QUESTION 28

Which commands will archive /home and its content to /mnt/backup? (Choose TWO correct answers.)

- A. `cp -ar /home /mnt/backup`
- B. `mv /home /mnt/backup`
- C. `sync -r /home /mnt/backup`
- D. `tar -cf /mnt/backup/archive.tar /home`
- E. `copy -r /home /mnt/backup`

Correct Answer: AD

Section: The Power of the Command Line

Explanation

Explanation/Reference:

QUESTION 29

Why is the file data.txt empty after executing `sort data.txt > data.txt`?

- A. Because, if data.txt is empty now, it must have been empty before.
- B. Because sort cannot sort text files, only binary files.
- C. Because sort detects that both files are the same.
- D. Because the file gets truncated before sort is executed.

Correct Answer: D

Section: The Power of the Command Line

Explanation

Explanation/Reference:

QUESTION 30

Which of the following commands will output all of the lines that contain either the string Fred or fred? (Choose TWO correct answers.)

- A. `grep -v fred data_file`
- B. `grep '[f]red' data_file`
- C. `egrep fred data_file`
- D. `grep '[Ff]red' data_file`
- E. `grep -i fred data_file`

Correct Answer: DE

Section: The Power of the Command Line

Explanation

Explanation/Reference:

QUESTION 31

The output of the program date should be saved in the variable actdat. What is the correct statement?

- A. `actdat=`date``
- B. `set actdat='date'`
- C. `date | actdat`
- D. `date > $actdat`
- E. `actdat=date`

Correct Answer: A

Section: The Power of the Command Line

Explanation

Explanation/Reference:

QUESTION 32

SIMULATION

What two character sequence is present at the beginning of an interpreted script? (Please specify the TWO correct characters only)

Correct Answer: #!

Section: The Power of the Command Line

Explanation

Explanation/Reference:

QUESTION 33

How can the current directory and its subdirectories be searched for the file named MyFile.xml?

A. `find . -name MyFile.xml`



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B. `grep MyFile.xml | find`

C. `grep -r MyFile.xml .`

D. `less MyFile.xml`

E. `search Myfile.xml ./`

Correct Answer: A

Section: The Power of the Command Line

Explanation

Explanation/Reference:

QUESTION 34

Which of the following commands will set the variable text to olaf is home? (Select TWO answers)

- A. text=olaf\ is\ home
- B. text=\$olaf is home
- C. \$text='olaf is home'
- D. text=='olaf is home'
- E. text="olaf is home"

Correct Answer: AE

Section: The Power of the Command Line

Explanation

Explanation/Reference:

QUESTION 35

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

Correct Answer: E

Section: The Power of the Command Line

Explanation

Explanation/Reference:

QUESTION 36

What is the output of the following command?

```
for token in a b c; do
  echo -n ${token};
done
```


- A. anbn cn
- B. abc
- C. \$token\$token\$token
- D. {a}{b}{c}
- E. a b c

Correct Answer: B

Section: The Power of the Command Line

Explanation

Explanation/Reference:

QUESTION 37

Which of the following commands are used to view memory usage? (Choose TWO correct answers.)

- A. memory
- B. top
- C. ps
- D. free
- E. nice

Correct Answer: BD

Section: The Linux Operating System

Explanation

Explanation/Reference:

QUESTION 38

Which of the following directories is often used to store log files?

- A. /home
- B. /var
- C. /temp
- D. /dev
- E. /usr

Correct Answer: B

Section: The Linux Operating System

Explanation

Explanation/Reference:

QUESTION 39

Identify the proper device for the third partition, on the second hard disk, on the first IDE controller on a PC system.

- A. /dev/hdb3
- B. /dev/hd1b3
- C. /dev/hdc1d2p3
- D. dev/hdc1a3
- E. dev/hdc1b3

Correct Answer: A

Section: The Linux Operating System

Explanation

Explanation/Reference:

QUESTION 40

A Linux computer has no access to the internet. Which command displays information about the network gateway for the system?

- A. traceroute
- B. ifconfig
- C. gateway
- D. route
- E. ipconfig

Correct Answer: D

Section: The Linux Operating System

Explanation

Explanation/Reference:

QUESTION 41

Where is the BIOS located?

- A. RAM
- B. Hard drive
- C. Motherboard
- D. LCD monitor

Correct Answer: C

Section: The Linux Operating System

Explanation

Explanation/Reference:

QUESTION 42

Which network interface always exists in a Linux system?

- A. lo
- B. sit0
- C. wlan0
- D. vlan0
- E. eth0

Correct Answer: A

Section: The Linux Operating System

Explanation

Explanation/Reference:

QUESTION 43

Which command will display running process information in real time?

- A. top
- B. show current
- C. ps current

D. process

Correct Answer: A

Section: The Linux Operating System

Explanation

Explanation/Reference:

QUESTION 44

After installing a new package, in which directory are you most likely find its configuration file?

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

Correct Answer: C

Section: The Linux Operating System

Explanation

Explanation/Reference:

QUESTION 45

Which of the following Ubuntu releases is considered most stable and fit to use for business purposes?

- A. LTS
- B. Xubuntu
- C. Ubuntu Vanilla
- D. Kubuntu
- E. Xubuntu Server

Correct Answer: A

Section: The Linux Operating System

Explanation

Explanation/Reference:

QUESTION 46

What is the command that will show system boot time messages?

- A. dmesg
- B. echo
- C. lspci
- D. display system boot
- E. messages

Correct Answer: A

Section: The Linux Operating System

Explanation

Explanation/Reference:

QUESTION 47

Which of the following files holds the definition of the local user accounts?

- A. /etc/secret
- B. /etc/users
- C. /etc/passwd
- D. /etc/id
- E. /etc/home

Correct Answer: C

Section: Security and File Permissions

Explanation

Explanation/Reference:

QUESTION 48

What permissions are set on a file 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: Security and File Permissions

Explanation

Explanation/Reference:

QUESTION 49

Which statements about the directory /etc/skel are correct? (Choose TWO answers)

- A. The personal settings of root are in this directory.
- B. The files from the directory are copied to the home directory of the new user when starting the system.
- C. The files from the directory are copied to the home directory of a new user when the account is created.
- D. The directory contains a default set of configuration files used by the useradd command.
- E. The directory contains the global settings for the Linux system.

Correct Answer: CD

Section: Security and File Permissions

Explanation

Explanation/Reference:

QUESTION 50

The following line is found in which system file?

```
root:x:0:0::/root:/bin/bash
```

- A. /etc/user.conf
- B. /etc/shadow
- C. /etc/passwd
- D. /usr/bin/shadow
- E. /etc/password

Correct Answer: C

Section: Security and File Permissions

Explanation

Explanation/Reference:



QUESTION 51

Given the following directory permissions:

```
drwxrwxrwt 14 root root 36864 2012-03-02 11:17 /tmp
```

What does the letter t at the end of drwxrwxrwt indicate?

- A. It is the sticky bit that causes all commands in this directory to be launched as root.
- B. It means that even though the directory is globally writable only the owner can delete their own files.
- C. It makes the directory accessible for everybody.
- D. It indicates that this directory contains only temporary files that may be deleted.
- E. It is a temporary bit that prevents launching commands in this directory.

Correct Answer: B

Section: Security and File Permissions

Explanation

Explanation/Reference: