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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

Exam A

QUESTION 1
What is the preferred source for the installation of new applications?

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

Correct Answer: C
Section: The Linux Community and a Career in Open Source
Explanation

Explanation/Reference:

QUESTION 2
Which of the following can be used to access the command line?

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 3
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 4
Which of the following software packages is an e-mail server?

A. Postfix
B. Thunderbird
C. Apache
D. GIMP
E. MySQL

Correct Answer: A
Section: The Linux Community and a Career in Open Source
Explanation

Explanation/Reference:

QUESTION 5
What does LAMP mean?

A. The Linux Advanced Mode Programming Interface which gives advanced capabilities to application developers.
B. The bus ID of an attached USB device that emits light.

C. Short for Lightweight Access Management Protocol which synchronizes permissions in a network.
D. The combination of Linux, Apache, MySQL and PHP or other programming languages.
E. Short for lamport-clock which is important in distributed network computing.

Correct Answer: D
Section: The Linux Community and a Career in Open Source
Explanation

Explanation/Reference:

QUESTION 6
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 7
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 8
Which of the following is a requirement of the GPL license but not the BSD license?

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 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 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 11
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 12
SIMULATION
When typing a long command line at the shell, what single character can be used to split a command across multiple lines?

Correct Answer: \
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
Which command is used to make a shell variable known to subsequently executed programs?

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 15
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 16
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 17
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 18
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 19
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

QUESTION 20
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 21
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 22
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 23
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 24
What keyword is missing from the following segment of the shell script?

```
for i in *; _____
   cat $i
done
```

A. do

B. then

C. enod

D. fi

E. run

Correct Answer: A
Section: The Power of the Command Line
Explanation

Explanation/Reference:

QUESTION 25
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 26
How can the current directory and its subdirectories be searched for the file named MyFile.xml?

A. find . -name MyFile.xml

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 27
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 28
What is the output of the following command?

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

A. anbncn
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 29
Which of the following is a combined audio/video interface for transmission of digital data?

A. ATI
B. DVD
C. HDMI
D. VGA
E. DVI

Correct Answer: C
Section: The Linux Operating System
Explanation

Explanation/Reference:

QUESTION 30
Which of the following hardware devices links a number of computers together to form an Ethernet LAN?

A. Server
B. Switch
C. Connector
D. Access point
E. Terminal

Correct Answer: B
Section: The Linux Operating System
Explanation

Explanation/Reference:

QUESTION 31
What is the number called that is used to identify a process?

A. Proc Num
B. PIN
C. Process Entry
D. PID

Correct Answer: D
Section: The Linux Operating System
Explanation

Explanation/Reference:

QUESTION 32
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 33
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 34
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 35
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 36
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 37
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 38
Which of the following filesystems is most commonly used for Linux distributions?

A. HFS+
B. ext4

C. FAT32
D. NTFS

Correct Answer: B
Section: The Linux Operating System
Explanation

Explanation/Reference:

QUESTION 39
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 40
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 41
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 42
Which statement about users and user groups is correct?

A. A group can only have one main user.
B. There can be only one user group on a system.
C. Users do not have to belong to a user group.
D. Every user belongs to a least one user group.

Correct Answer: D
Section: Security and File Permissions
Explanation

Explanation/Reference: