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Linux Essentials Certificate Exam, version 1.5



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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

Which of the following Linux distributions use the dpkg package management system? (Choose TWO correct answers.)

- A. Suse
- B. Red Hat
- C. Debian



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- D. Ubuntu
- E. Mandriva

Correct Answer: CD

Section: The Linux Community and a Career in Open Source

Explanation

Explanation/Reference:

QUESTION 2

Which of the following applications are used to play an MP3 file on a Linux system? (Choose THREE correct answers.)

- A. Xara Xtreme
- B. Banshee
- C. LibreOffice Player
- D. Amarok

E. Audacious

Correct Answer: BDE

Section: The Linux Community and a Career in Open Source

Explanation

Explanation/Reference:

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 encrypted form.
- E. Passwords may be at most six characters long.

Correct Answer: D

Section: The Linux Community and a Career in Open Source

Explanation

Explanation/Reference:

QUESTION 4

Which one of the following statements concerning the General Public License (GPL) is true?

- A. The GPL is designed to ensure that the source code of a software remains freely available.
- B. The GPL is identical to the BSD license.
- C. GPL software may never be sold for money.
- D. If you change a program you received under the GPL, you must send your changes to the original author for approval.
- E. GPL software may not be used to run nuclear reactors or air traffic control systems.

Correct Answer: A

Section: The Linux Community and a Career in Open Source

Explanation

Explanation/Reference:

QUESTION 5

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 6

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 7

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 8

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 9

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 10

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 lampport-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 11

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

- A. Cloud Computing provides new tools to manage IT resources.



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- 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 12

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 13

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 14

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 15

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 16**

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 17**

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 18

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 19

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 20

SIMULATION

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



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Correct Answer: \

Section: Finding Your Way on a Linux System

Explanation

Explanation/Reference:

QUESTION 21

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 22

Which of the following are correct commands for changing the current directory to the user's home? (Choose TWO answers)

- A. cd /home
- B. cd ~
- C. cd ..

- D. cd
- E. cd /

Correct Answer: BD

Section: Finding Your Way on a Linux System

Explanation

Explanation/Reference:

QUESTION 23

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 24

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 25**

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 26**

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 27

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 28

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 29

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



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- 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 30

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 31

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 32

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 33

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 34

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 35

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 36

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 37

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 38

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



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- 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 39

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 40

Which of the following statements may be used to access the second command line argument to a script?

- A. "\$ARG2"
- B. \$1
- C. "\$2"
- D. "\$1"

E. '\$2'

Correct Answer: C

Section: The Power of the Command Line

Explanation

Explanation/Reference:

QUESTION 41

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 42

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 43

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 44

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 45

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 46

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 47

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 48

Which command will display the last line of the file foo.txt?

- A. head -n 1 foo.txt
- B. tail foo.txt
- C. last -n 1 foo.txt
- D. tail -n 1 foo.txt

Correct Answer: D

Section: The Power of the Command Line

Explanation

Explanation/Reference:



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