

CompTIA LX0-104



CompTIA Linux+ [Powered by LPI] - Exam 2

Version: 5.1

Topic 1, Shells, Scripting and Data Management

QUESTION NO: 1

What output will the following command sequence produce?

```
echo '1 2 3 4 5 6' | while read a b c; do  
echo result: $c $b $a;  
done
```

- A.**
result: 3 4 5 6 2 1
- B.**
result: 1 2 3 4 5 6
- C.**
result: 6 5 4
- D.**
result: 6 5 4 3 2 1
- E.**
result: 3 2 1

Answer: A

Explanation:

QUESTION NO: 2

When the command `echo $` outputs 1, which of the following statements is true?

- A.**
It is the process ID of the echo command.
- B.**
It is the process ID of the current shell.
- C.**
It is the exit value of the command executed immediately before echo.
- D.**

It is the exit value of the echo command.

Answer: C

Explanation:

QUESTION NO: 3 CORRECT TEXT

What word is missing from the following SQL statement?

insert into tablename _____(909, 'text');

(Please specify the missing word using lower-case letters only.)

Answer:

VALUES, values

QUESTION NO: 4

Which command makes the shell variable named VARIABLE visible to subshells?

A.
export \$VARIABLE

B.
export VARIABLE

C.
set \$VARIABLE

D.
set VARIABLE

E.
env VARIABLE

Answer: B

Explanation:

QUESTION NO: 5

What output will the command `seq 10` produce?

A.

A continuous stream of numbers increasing in increments of 10 until stopped.

B.

The numbers 1 through 10 with one number per line.

C.

The numbers 0 through 9 with one number per line.

D.

The number 10 to standard output.

Answer: B

Explanation:

QUESTION NO: 6 CORRECT TEXT

By default, the contents of which directory will be copied to a new user's home directory when the account is created by passing the `-m` option to the `useradd` command? (Specify the full path to the directory.)

Answer:

/etc/skel

QUESTION NO: 7 CORRECT TEXT

What word is missing from the following SQL statement?

_____ count(*) from tablename;

(Please specify the missing word using lower-case letters only.)

Answer:

select

QUESTION NO: 8

After issuing:

```
function myfunction { echo $1 $2 ; }
```

in Bash, which output does:

```
myfunction A B C
```

Produce?

- A.**
A B
- B.**
A B C
- C.**
A C
- D.**
B C
- E.**
C B A

Answer: A

Explanation:

QUESTION NO: 9

Which of the following commands puts the output of the command date into the shell variable mydate?

- A.**
mydate="\$(date)"
- B.**

mydate="exec date"

C.

mydate="\$((date))"

D.

mydate="date"

E.

mydate="\${date}"

Answer: A

Explanation:

QUESTION NO: 10

Which of the following files, when existing, affect the behavior of the Bash shell? (Choose TWO correct answers.)

A.

~/bashconf

B.

~/bashrc

C.

~/bashdefaults

D.

~/bash_etc

E.

~/bash_profile

Answer: B,E

Explanation:

QUESTION NO: 11

What is the difference between the commands test -e path and test -f path?

A.

They are equivalent options with the same behaviour.

B.

The -f option tests for a regular file. The -e option tests for an empty file.

C.

Both options check the existence of the path. The -f option also confirms that it is a regular file.

D.

The -f option tests for a regular file. The -e option tests for an executable file.

Answer: C

Explanation:

QUESTION NO: 12

How can the existing environment variable FOOBAR be suppressed for the execution of the script./myscript only?

A.

unset -v FOOBAR;./myscript

B.

set -a FOOBAR="";./myscript

C.

env -u FOOBAR./myscript

D.

env -i FOOBAR./myscript

Answer: C

Explanation:

QUESTION NO: 13

When the command echo \$\$ outputs 12942, what is the meaning of 12942?

A.

It is the process ID of the echo command.

B.

It is the process ID of the current shell.

C.

It is the process ID of the last command executed.

D.

It is the process ID of the last command which has been placed in the background.

Answer: B

Explanation:

QUESTION NO: 14

What output will the following command produce?

`seq 1 5 20`

A.

1

6

11

16

B.

1

5

10

15

C.

1

2

3

4

D.

2

3

4

5

E.

5

10

15

20

Answer: A

Explanation:

QUESTION NO: 15

Which of the following words is used to restrict the records that are returned from a SELECT SQL query based on a supplied criteria for the values in the records?

A.

CASE

B.

FROM

C.

WHERE

D.

IF

Answer: C

Explanation:

QUESTION NO: 16

Which of the following commands lists all defined variables and functions within Bash?

- A.**
env
- B.**
set
- C.**
env -a
- D.**
echo \$ENV

Answer: B

Explanation:

QUESTION NO: 17

Which of the following SQL queries counts the number of occurrences for each value of the field order_type in the table orders?

- A.**
SELECT order_type,COUNT(*) FROM orders WHERE order_type=order_type;
- B.**
SELECT order_type,COUNT(*) FROM orders GROUP BY order_type;
- C.**
COUNT(SELECT order_type FROM orders);
- D.**
SELECT COUNT(*) FROM orders ORDER BY order_type;
- E.**
SELECT AUTO_COUNT FROM orders COUNT order_type;

Answer: B

Explanation:

QUESTION NO: 18

What is the purpose of the file /etc/profile?

- A.**
It contains the welcome message that is displayed after login.
- B.**
It contains security profiles defining which users are allowed to log in.
- C.**
It contains environment variables that are set when a user logs in.
- D.**
It contains default application profiles for users that run an application for the first time.

Answer: C

Explanation:

QUESTION NO: 19 CORRECT TEXT

What command displays all aliases defined in the current shell? (Specify the command without any path information)

Answer:

alias, alias -p

QUESTION NO: 20

Which of the following are requirements in order to run a shell script like a regular command from anywhere in the filesystem? (Choose THREE correct answers.)

- A.**
The user issuing the command must be in the group script.
- B.**
The script file must be found in the \$PATH.
- C.**
The script file must have the executable permission bit set.
- D.**
The script must begin with a shebang-line (!) that points to the correct interpreter.

- E.**
The file system on which the script resides must be mounted with the option scripts.

Answer: B,C,D

Explanation:

QUESTION NO: 21

Which of the following commands prints the exit value of the most recently executed program in Bash?

- A.**
echo \$?
- B.**
echo\$ #
- C.**
echo \$exit
- D.**
echo \$status
- E.**
echo \$&

Answer: A

Explanation:

QUESTION NO: 22

Which Bash option prevents a user from accidentally overwriting a file with a ">"?

- A.**
set -o safe
- B.**
set -o noglob
- C.**

set -o noclobber

D.

set -o append

E.

set -o nooverwrite

Answer: C

Explanation:

QUESTION NO: 23

What is true regarding the statement beginning with #! That is found in the first line of a script?

A.

It prevents the script from being executed until the ! is removed.

B.

It specifies the path and the arguments of the interpreter used to run the script.

C.

It is a comment that is ignored by the script.

D.

It specifies the character encoding of the script.

Answer: B

Explanation:

QUESTION NO: 24

Which of the following are operators used for comparison by the test command? (Choose two correct answers.)

A.

equals

B.

B. =

C.

–is

D.

–eq

E.

null

Answer: B,D

Explanation:

QUESTION NO: 25

Which of the following commands creates a function in Bash that outputs the sum of two numbers?

A.

function sumitup { echo \$(((\$1 + \$2)) ; }

B.

command sumitup { echo \$(((\$1 + \$2)) ; }

C.

function sumitup { echo \$1 + \$2 ; }

D.

method sumitup { echo \$1 + \$2 ; }

E.

command sumitup { echo \$1 + \$2 ; }

Answer: A

Explanation:

QUESTION NO: 26

What is the main difference between the batch and at commands?

A.

The batch command will run multiple times. The at command will only run once.

B.

The commands of a batch job run sequentially one after another while the commands in at jobs may run in parallel.

C.

The at command reads commands from standard input. The batch command requires a command line argument.

D.

The at command e-mail results to the user. The batch command logs results to syslog.

Answer: B

Explanation:

QUESTION NO: 27

Which of the following actions prevents a specific user from scheduling tasks using at or batch?

A.

Add the specific user to the /etc/at.allow file.

B.

Add the specific user to the [deny] section in the /etc/std.conf file.

C.

Add the specific user to the /etc/at.deny file.

D.

Add the specific user to the nojobs group.

E.

Run atd —deny followed by the name of the specific user.

Answer: C

Explanation:

QUESTION NO: 28

Which of the following commands are used to manage the environment and shell variables within a shell process? (choose two correct answers.)

A.
export

B.
init

C.
reset

D.
set

E.
tset

Answer: A,D

Explanation:

QUESTION NO: 29 CORRECT TEXT

What word will complete an if statement in bash such as the following: if [-x "\$file"]; then echo \$file _____

(Please provide the missing word only)

Answer:
fi

QUESTION NO: 30

Which of the following configuration files should be modified to globally set shell variables for all users?

A.
/etc/bashrc

B.

/etc/profile

C.

/.bash_profile

D.

/etc/.bashrc

Answer: B

Explanation:

QUESTION NO: 31 CORRECT TEXT

What word is missing from the following SQL statement? update tablename_____ fieldname='value' where id=909;

(Please specify the missing word using lower_case letters only.)

Answer:
set

QUESTION NO: 32

Which of the following SQL statements will select the fields name and address from the contacts table?

A.

SELECT (name, address) FROM contacts;

B.

SELECT (name address) FROM contacts;

C.

SELECT name, address FROM contacts;

D.

SELECT name address FROM contacts;

Answer: C

Explanation:

Topic 2, User Interfaces and Desktops

QUESTION NO: 33

Which file used by XDM specifies the default wallpaper?

- A.**
/etc/X11/xdm/Xsetup
- B.**
/etc/X11/xdm.conf
- C.**
/etc/X11/xdm/Defaults
- D.**
/etc/X11/defaults.conf

Answer: A

Explanation:

QUESTION NO: 34 CORRECT TEXT

Which command can be used to investigate the properties for a particular window in X by clicking that window? (Specify ONLY the command without any path or parameters.)

Answer:
/usr/bin/xwininfo, xwininfo

QUESTION NO: 35

The X11 configuration file xorg.conf is grouped into sections. How is the content of the section SectionName associated with that section?

A.

It is placed in curly brackets as in Section `SectionName { ... }`.

B.

It is placed between a line containing Section "SectionName" and a line containing EndSection.

C.

It is placed between the tags `<Section name="SectionName">` and `</Section>`

D.

It is placed after the row `[SectionName]`.

E.

It is placed after an initial unindented Section "SectionName" and must be indented by exactly one tab character.

Answer: B

Explanation:

QUESTION NO: 36

What is the purpose of a screen reader?

A.

It reads text displayed on the screen to blind or visually impaired people.

B.

It reads the parameters of the attached monitors and creates an appropriate X11 configuration.

C.

It displays lines and markers to help people use speed reading techniques.

D.

It manages and displays files that contain e-books.

Answer: A

Explanation:

QUESTION NO: 37

How is a display manager started?

A.

It is started by a user using the command startx.

B.

It is started like any other system service by the init system.

C.

It is started by inetd when a remote hosts connects to the X11 port.

D.

It is started automatically when a X11 user logs in to the system console.

Answer: B

Explanation:

QUESTION NO: 38 CORRECT TEXT

What is the default name of the configuration file for the Xorg X11 server? (Specify the file name only without any path.)

Answer:

xorg.conf

QUESTION NO: 39

Which of the following commands shows the current color depth of the X Server?

A.

xcd

B.

xcdepth

C.

xwininfo

D.

xcolordepth

E.
cat /etc/X11

Answer: C
Explanation:

QUESTION NO: 40

For accessibility assistance, which of the following programs is an on-screen keyboard?

- A.**
xkb
- B.**
atkb
- C.**
GOK
- D.**
xOSK

Answer: C
Explanation:

QUESTION NO: 41 CORRECT TEXT

What is the name of the simple graphical login manager that comes with a vanilla X11 installation? (Specify ONLY the command without any path or parameters.)

Answer:
xdm

QUESTION NO: 42

Which of the following are tasks handled by a display manager like XDM or KDM? (Choose TWO)

correct answers.)

- A.**
Start and prepare the desktop environment for the user.
- B.**
Configure additional devices like new monitors or projectors when they are attached.
- C.**
Handle the login of a user.
- D.**
Lock the screen when the user was inactive for a configurable amount of time.
- E.**
Create an X11 configuration file for the current graphic devices and monitors.

Answer: A,C

Explanation:

QUESTION NO: 43

On a machine running several X servers, how are the different instances of the X11 server identified?

- A.**
By a fixed UUID that is defined in the X11 configuration file.
- B.**
By a unique IPv6 address from the fe80: : /64 subnet.
- C.**
C. By the name of the user that runs the X server like x11 :bob.
- D.**
By a device name like /dev/X11/xservers/1.
- E.**
By a display name like: 1.

Answer: E

Explanation:

QUESTION NO: 44

What is the purpose of the xhost program?

- A.**
Grant or revoke access to a X11 session.
- B.**
Install all packages and video drivers required to run X11 on a host.
- C.**
Start the X11 server and announce its availability within the local network.
- D.**
Send informational messages to all users logged into a host using X11.
- E.**
Display the MOTD and other important information when a user logs in via X11.

Answer: A

Explanation:

QUESTION NO: 45

What of the following statements is true regarding a display manager?

- A.**
A display manager handles remote X11 logins only and has no purpose on a system that is not attached to a network.
- B.**
The display manager is configured in the X11 configuration file xorg.conf.
- C.**
There is only one display manager X11Dm that must be started on all systems running X11.
- D.**
After system startup, the display manager handles the login of a user.
- E.**
Without a display manager, no graphical programs can be run.

Answer: D

Explanation:

QUESTION NO: 46

Which of the following statements is true regarding the /etc/shadow file?

- A.**
/etc/shadow may not be readable or writable by user root.
- B.**
Only root is allowed to read and write /etc/shadow.
- C.**
All users have full read and write access to /etc/shadow.
- D.**
All users have full read access to /etc/shadow.

Answer: B

Explanation:

QUESTION NO: 47

What is the purpose of the sticky keys feature in X?

- A.**
To assist users who have difficulty holding down multiple keys at once.
- B.**
To prevent repeated input of a single character if the key is held down.
- C.**
To ignore brief keystrokes according to a specified time limit.
- D.**
To repeat the input of a single character.

Answer: A

Explanation:

Topic 3, Administrative Tasks

QUESTION NO: 48

Which of the following steps prevents a user from obtaining an interactive login session?

- A.**
Run the command `chsh -s /bin/false` with the user name.
- B.**
Set the UID for the user to 0.
- C.**
Remove the user from the group staff.
- D.**
Add the user to `/etc/noaccess`.
- E.**
Create a `.nologin` file in the user's home directory.

Answer: A

Explanation:

QUESTION NO: 49 CORRECT TEXT

Which file specifies the user accounts that can NOT submit jobs via at or batch? (Provide the full path and filename)

Answer:
`/etc/at.deny`

QUESTION NO: 50

Which character in the password field of /etc/passwd is used to indicate that the encrypted password is stored in /etc/shadow?

A.

*

B.

-

C.

s

D.

x

Answer: D

Explanation:

QUESTION NO: 51 CORRECT TEXT

The system's timezone may be set by linking /etc/localtime to an appropriate file in which directory? (Provide the full path to the directory, without any country information)

Answer:

/usr/share/zoneinfo/

QUESTION NO: 52

Which of the following fields are available in both the global /etc/crontab file as well as in user-specific crontab files? (Select TWO correct answers)

A.

Year

B.

Minute

C.

Username

D.

Command

Answer: B,D

Explanation:

QUESTION NO: 53

Which command can be used to delete a group from a Linux system?

- A.**
groupdel
- B.**
groupmod
- C.**
groups
- D.**
groupedit

Answer: A

Explanation:

QUESTION NO: 54

What is the purpose of the iconv command?

- A.**
It converts bitmap images from one format to another such as PNG to JPEG.
- B.**
It verifies that the root directory tree complies to all conventions from the Filesystem Hierarchy Standard (FHS).
- C.**
It displays additional meta information from icon files ending in .ico.
- D.**
It changes the mode of an inode in the ext4 file system.

E.

It converts files from one character encoding to another.

Answer: E

Explanation:

QUESTION NO: 55

In case neither cron.allow nor cron.deny exist in /etc/, which of the following is true?

A.

Without additional configuration, no users may have user specific crontabs.

B.

Without additional configuration, all users may have user specific crontabs.

C.

The cron daemon will refuse to start and report missing files in the system's logfile.

D.

When a user creates a user specific crontab the system administrator must approve it explicitly.

Answer: A

Explanation:

QUESTION NO: 56

Which of the following commands can remove a user from a group?

A.

grouprm

B.

groupmod

C.

passwd

D.

usergroups

E.
usermod

Answer: E

Explanation:

QUESTION NO: 57

Where are user specific crontabs stored?

- A.**
In the database file /etc/crontab.db which is shared by all users.
- B.**
As individual per-user files within /var/spool/cron.
- C.**
As individual per-user files in /etc/cron.user.d.
- D.**
In the .crontab file in the user's home directory.
- E.**
In the file /var/cron/user-crontab which is shared by all users.

Answer: B

Explanation:

QUESTION NO: 58

Which file contains the date of the last change of a user's password?

- A.**
/etc/gshadow
- B.**
/etc/passwd
- C.**
/etc/pwdlog

D.
/etc/shadow

E.
/var/log/shadow

Answer: D

Explanation:

QUESTION NO: 59 CORRECT TEXT

Which environment variable should be set in order to change the time zone for the commands run from within the environment variable's scope? (Specify the variable name only.)

Answer:
TZ

QUESTION NO: 60

Each entry in a crontab must end with what character?

- A.**
Tab
- B.**
Space
- C.**
Backslash
- D.**
Newline

Answer: D

Explanation:

QUESTION NO: 61

To prevent a specific user from scheduling tasks with at, what should the administrator do?

A.

Add the specific user to /etc/at.allow file.

B.

Add the specific user to [deny] section in the /etc/atd.conf file.

C.

Add the specific user to /etc/at.deny file.

D.

Add the specific user to nojobs group.

E.

Run the following: atd --deny [user].

Answer: C

Explanation:

QUESTION NO: 62

Which of the following crontab entries will execute myscript at 30 minutes past every hour on Sundays?

A.

0 * * * 30 myscript

B.

30 * * * 6 myscript

C.

30 0 * * 0 myscript

D.

30 0-23 * * 0 myscript

E.

0 0-23 * * 30 myscript

Answer: D

Explanation:

QUESTION NO: 63

Which of the following files assigns a user to its primary group?

- A.**
/etc/pgroup
- B.**
/etc/shadow
- C.**
/etc/group
- D.**
/etc/passwd
- E.**
/etc/gshadow

Answer: D

Explanation:

QUESTION NO: 64

Which of the following commands should be added to /etc/bash_profile in order to change the language of messages for an internationalized program to Portuguese (pt)?

- A.**
export LANGUAGE="pt"
- B.**
export MESSAGE="pt"
- C.**
export UI_MESSAGES="pt"
- D.**
export LC_MESSAGES="pt"
- E.**
export ALL_MESSAGES="pt"

Answer: D

Explanation:

QUESTION NO: 65 CORRECT TEXT

In which file, if present, must all users be listed that are allowed to use the cron scheduling system? (Specify the full name of the file, including path.)

Answer:

/etc/cron.allow

QUESTION NO: 66

Which commands can be used to change a user's account aging information? (Choose THREE correct answers.)

A.
usermod

B.
passwd

C.
chattr

D.
chage

E.
chsh

Answer: A,B,D

Explanation:

QUESTION NO: 67 CORRECT TEXT

NO: 67 FILL BLANK

Which command is used to add an empty group to the system? (Specify ONLY the command without any path or parameters.)

Answer:

groupadd, /usr/sbin/groupadd

QUESTION NO: 68

What is NOT contained in the locale setting of the operating system?

- A.**
currency symbol
- B.**
language
- C.**
timezone
- D.**
thousands separator

Answer: C

Explanation:

QUESTION NO: 69

What is true about the file /etc/localtime?

- A.**
It is a plain text file containing a string such as Europe/Berlin.
- B.**
It is created and maintained by the NTP service based on the geolocation of the system's IP address.
- C.**
It is a symlink to /sys/device/clock/ltime and always contains the current local time.
- D.**
It is either a symlink to or a copy of a timezone information file such as

/usr/share/zoneinfo/Europe/Berlin.

Answer: D

Explanation:

QUESTION NO: 70

What is true regarding the command `userdel --force --remove bob`? (Choose TWO correct answers.)

A.

The user bob is removed from the system's user database.

B.

The user bob's home directory is removed.

C.

The locate database is updated to drop files owned by bob.

D.

All files owned by bob are remove from all mounted filesystems.

E.

In case bob was the last member of a group, that group is deleted.

Answer: A,B

Explanation:

QUESTION NO: 71

Which of the following fields can be found in the `/etc/group` file? (Choose THREE correct answers.)

A.

The list of users that belong to the group.

B.

The home directory of the group.

C.

The name of the group.

D.

The description of the group.

E.

The password of the group.

Answer: A,C,E

Explanation:

QUESTION NO: 72

What is true about groups in a Linux system? (Choose two correct answers.)

A.

Each user may be a member of several groups. However, only one group is the user's primary group.

B.

Groups may have a password that allows users to join that group temporarily.

C.

Each user can only be a member of one group at a time.

D.

Group memberships are optional such that there may be users that do not belong to any group.

E.

Groups can be nested meaning that one group can be a member of another group.

Answer: A,B

Explanation:

QUESTION NO: 73

Why should a regular user edit his personal crontab by using the command crontab instead of just editing his crontab file manually?

A.

Because user specific crontab entries are stored in a common database and must be extracted before editing.

B.

Because crontab starts the cron daemon in case it is not running due to no other crontab entries existing.

C.

Because user specific crontab entries are stored in a special directory which is maintained by the cron daemon and not writable for regular users.

D.

Because crontab collects information about all users crontabs and recommends similar commands used by other users of the system.

Answer: C

Explanation:

QUESTION NO: 74

Which of the following details can be found in an entry of a user specific crontab? (Choose two correct answers.)

A.

The verbal description of the job.

B.

The syslog facility to where the output of the job should be sent.

C.

The time when the cron job should run.

D.

The command that should be started by the cron job.

E.

The name of the user which should run the job.

Answer: C,D

Explanation:

QUESTION NO: 75

Which of the following commands will convert files from one character encoding to another?

- A.**
convert
- B.**
enc2utf
- C.**
iconv
- D.**
transcode

Answer: C

Explanation:

QUESTION NO: 76

Which environment variable will override all LC_* variables?

- A.**
LANG
- B.**
LC_ALL
- C.**
LC_COLLATE
- D.**
LOCALE

Answer: B

Explanation:

QUESTION NO: 77

What is true about UIDs and GIDs?

A.

UIDs and GIDs share a common number space. Each time a new user or group is created, the next free ID is assigned.

B.

The first four digits of each UID are the GID of the primary group of that user.

C.

The GID of a group is always the sum of the UIDs of its members.

D.

The number space is split up. UIDs usually reside in the range from 0 to 32767 while GIDs reside in the range from 32768 to 65535.

E.

There are distinct number spaces for UIDs and GIDs, i.e. the same number may be used as both UID and a GID.

Answer: E

Explanation:

Topic 4, Essential System Services

QUESTION NO: 78 CORRECT TEXT

Which option in the `/etc/ntp.conf` file specifies an external NTP source to be queried for time information? (Specify ONLY the option without any values or parameters.)

Answer:

server

QUESTION NO: 79 CORRECT TEXT

After configuring printing on a Linux server, the administrator sends a test file to one of the printers and it fails to print. What command can be used to display the status of the printer's queue? (Specify ONLY the command without any path or parameters.)

Answer:

lpq, /usr/bin/lpq, lpstat, /usr/bin/lpstat

QUESTION NO: 80

Which of the following tasks can be accomplished using the command date? (Choose TWO correct answers.)

- A.**
Synchronize the hardware and system clocks.
- B.**
Output date and time in different formats.
- C.**
Set the system clock.
- D.**
Set the hardware clock.
- E.**
Update the time via NTP.

Answer: B,C

Explanation:

QUESTION NO: 81

Which of the following are syslog facilities? (Choose TWO correct answers.)

- A.**
local7
- B.**
mail
- C.**
advanced
- D.**
postmaster

E.
remote

Answer: A,B

Explanation:

QUESTION NO: 82

What is the purpose of the command mailq?

- A.**
It fetches new emails from a remote server using POP3 or IMAP.
- B.**
It is a multi-user mailing list manager.
- C.**
It is a proprietary tool contained only in the qmail MTA.
- D.**
It queries the mail queue of the local MTA.
- E.**
It is a command-line based tool for reading and writing emails.

Answer: D

Explanation:

QUESTION NO: 83

Which file inside the CUPS configuration directory contains the definition of the printers?

- A.**
cups-devices.conf
- B.**
snmp.conf
- C.**
printcap.conf

D.
printers.conf

E.
cupsd.conf

Answer: D

Explanation:

QUESTION NO: 84

What is true regarding the command sendmail?

A.
With any MTA, the sendmail command must be run periodically by the cron daemon.

B.
All MTAs, including Postfix and Exim, provide a sendmail command.

C.
The sendmail command prints the MTAs queue history of which mails have been sent successfully.

D.
It is only available when the sendmail MTA is installed.

Answer: B

Explanation:

QUESTION NO: 85 CORRECT TEXT

After adding a new email alias to the configuration, which command must be run in order to ensure the MTA knows about it? (Specify the command without any path but including all required parameters.)

Answer:
newaliases, sendmail -bi

QUESTION NO: 86

Why is the correct configuration of a system's time zone important?

A.

Because the conversion of Unix timestamps to local time relies on the time zone configuration.

B.

Because the time zone is saved as part of the modification times of files and cannot be changed after a file is created.

C.

Because the environment variables LANG and LC_MESSAGES are, by default, set according to the time zone.

D.

Because NTP chooses servers nearby based on the configured time zone.

Answer: A

Explanation:

QUESTION NO: 87

Which of the following parameters are used for journalctl to limit the time frame of the output?
(Choose TWO correct answers.)

A.

--from=

B.

--since=

C.

--until=

D.

--upto=

E.

--date=

Answer: B,C

Explanation:

QUESTION NO: 88

Which of the following are commonly used Mail Transfer Agent (MTA) applications? (Choose THREE correct answers.)

- A.**
Postfix
- B.**
Procmail
- C.**
Sendmail
- D.**
Exim
- E.**
SMTPd

Answer: A,C,D

Explanation:

QUESTION NO: 89

Which of the following is observed and corrected by a NTP client?

- A.**
The skew in time between the system clock and the hardware clock.
- B.**
The skew in time between the system clock and the reference clock.
- C.**
Changes in the time zone of the current computer's location.
- D.**
Adjustments needed to support Daylight Saving Time.

Answer: B

Explanation:

QUESTION NO: 90 CORRECT TEXT

Which command is used to sync the hardware clock to the system clock? (Specify ONLY the command without any path or parameters.)

Answer:

hwclock, /sbin/hwclock, /usr/sbin/hwclock

QUESTION NO: 91 CORRECT TEXT

Which command, available with all MTAs, is used to list the contents of the MTA's mail queue? (Specify ONLY the command without any path or parameters.)

Answer:

mailq, /usr/bin/mailq, sendmail -bp, /usr/sbin/sendmail -bp, /usr/lib/sendmail -bp, sendmail, /usr/sbin/sendmail, /usr/lib/sendmail

QUESTION NO: 92 CORRECT TEXT

Please specify the top directory containing the configuration files for the CUPS printing system. (Specify the full path to the directory.)

Answer:

/etc/cups, /etc/cups/

QUESTION NO: 93

Which of the following is a legacy program provided by CUPS for sending files to the printer queues on the command line?

- A.**
lpd
- B.**
lpp
- C.**
lpq
- D.**
lpr

Answer: D

Explanation:

QUESTION NO: 94

What entry can be added to the syslog.conf file to have all syslog messages generated by a system displayed on console 12?

- A.**
*. * /dev/tty12
- B.**
/var/log/messages | /dev/tty12
- C.**
| /dev/tty12
- D.**
syslog tty12
- E.**
mail.* /dev/tty12

Answer: A

Explanation:

QUESTION NO: 95

What is true about the ntpdate command?

A.

It is the primary management command for the NTP time server.

B.

It updates the local system's date (i.e. day, month and year) but not the time (i.e. hours, minutes, seconds).

C.

It queries one or more NTP time servers and adjusts the system time accordingly.

D.

It sends the local system time to one or many remote NTP time servers for redistribution.

E.

It can be used by any user to set the user clock independently of the system clock.

Answer: C

Explanation:

QUESTION NO: 96

What is true regarding the file ~/.forward?

A.

As it is owned by the MTA and not writable by the user, it must be edited using the editaliases command.

B.

After editing ~/.forward the user must run newaliases to make the mail server aware of the changes.

C.

Using ~/.forward, root may configure any email address whereas all other users may configure only their own addresses.

D.

When configured correctly, ~/.forward can be used to forward each incoming mail to more than one other recipient.

Answer: D

Explanation:

QUESTION NO: 97

Which of the following commands is used to rotate, compress, and mail system logs?

- A.**
rotatelog
- B.**
striplog
- C.**
syslogd --rotate
- D.**
logrotate
- E.**
logger

Answer: D

Explanation:

QUESTION NO: 98

Which of the following commands pauses the Cups printer LaserPrinter?

- A.**
cupsreject LaserPrinter
- B.**
cupsreject -d LaserPrinter
- C.**
cupsdisable -d LaserPrinter
- D.**
cupsdisable LaserPrinter

Answer: D

Explanation:

QUESTION NO: 99

Which file, when using Sendmail or a compatible MTA system, will allow a user to redirect all of their mail to another address and is configurable by the user themselves?

A.

/etc/alias

B.

/etc/mail/forwarders

C.

/.alias

D.

/.forward

Answer: D

Explanation:

QUESTION NO: 100

Which command will set the local machine's timezone to UTC?

A.

cat UTC > /etc/timezone

B.

ln -s /usr/share/zoneinfo/UTC /etc/localtime

C.

date --timezone=UTC

D.

mv /usr/timezone/UTC /etc

Answer: B

Explanation:

QUESTION NO: 101

Which of the following commands lists all queued print jobs?

- A.**
lpd
- B.**
lpr
- C.**
lp
- D.**
lpq

Answer: D

Explanation:

QUESTION NO: 102

With syslog, what is a facility?

- A.**
Facilities are different connection interfaces to syslog. Each facility has its own device in /dev/syslog/.
- B.**
From syslog's point of view, each Unix process that issues messages is a facility.
- C.**
Facilities describe the severity of a log message such as emerg or info.
- D.**
When using remote logging, the hostname of the server that generated a message is called facility.

E.

Facilities describe categories or groups of messages such as mail or auth.

Answer: E

Explanation:

QUESTION NO: 103

Why should an NTP client maintain connections to several NTP servers?

A.

To receive NTP information every second as each server transmits NTP pings every five seconds only.

B.

To improve the precision of the time by comparing responses from several servers.

C.

To not overload the remote server in case the local NTP time cache is not enabled.

D.

To not lose contact with all NTP servers in case the client changes networks.

Answer: B

Explanation:

QUESTION NO: 104

What is true regarding the time in a Linux system?

A.

The BIOS clock of a computer always indicates the current local time and time zone.

B.

Each application must convert the Unix time to the current time zone which is usually done by using standard libraries.

C.

When the system is on the network, each query for the current time lead to a new network

connection to a time server.

D.

When the system time changes, running processes must be restarted in order to get the correct time.

Answer: B

Explanation:

QUESTION NO: 105

Which of the following is true regarding the mail queue of a mail server? (choose two correct answers.)

A.

The messages in the queue must be readable by all users as the queue may contain messages for several users.

B.

According to the Filesystem Hierarchy Standard (FHS) the queue is located at /var/mail/spool.

C.

There is exactly one mail queue per user which holds all new messages for that user before they are moved to other folders by the user's mail client.

D.

The queue holds all messages that are processed by the mail server but have not yet been completely delivered.

E.

The content of the mail queue can be queried by the command mailq.

Answer: D,E

Explanation:

QUESTION NO: 106

What is NTP?

- A.**
A more secure protocol replacement for FTP.
- B.**
A protocol for synchronizing time on computers.
- C.**
A routing aid for finding next hops on a network.
- D.**
A simple tunneling protocol for computers behind firewalls.

Answer: B

Explanation:

QUESTION NO: 107

Which of the following files holds the configuration for journald when running system?

- A.**
/etc/system/journalctl.conf
- B.**
/etc/systemd/journald.conf
- C.**
/etc/system/systemd-journal.conf
- D.**
/etc/systemd/systemd-journalctl.conf
- E.**
/usr/lib/systemd/journalctl.conf

Answer: B

Explanation:

Topic 5, Networking Fundamentals

QUESTION NO: 108

What is the command to delete the default gateway from the system IP routing table? (Choose TWO correct answers.)

- A.**
route del default
- B.**
ifconfig unset default
- C.**
netstat -r default
- D.**
ip route del default
- E.**
sysctl ipv4.default_gw=0

Answer: A,D

Explanation:

QUESTION NO: 109

What is the purpose of the nsswitch.conf file?

- A.**
It is used to configure where the C library looks for system information such as host names and user passwords.
- B.**
It is used to configure network protocol port numbers such as for HTTP or SMTP.
- C.**
It is used to configure LDAP authentication services for the local system.
- D.**
It is used to configure which network services will be turned on during the next system boot.

Answer: A

Explanation:

QUESTION NO: 110 CORRECT TEXT

With IPv6, how many bits have been used for the interface identifier of an unicast address?
(Specify the number using digits only.)

Answer:

64

QUESTION NO: 111

Which of the following commands will help identify a broken router between the local and the remote machine?

A.

ps

B.

netstat

C.

nslookup

D.

ifconfig

E.

tracert

Answer: E

Explanation:

QUESTION NO: 112

Which of the following details is NOT provided in any output from the netstat utility?

A.

broadcast services

B.

interface statistics

- C.**
masquerading connections
- D.**
network connections
- E.**
routing tables

Answer: A

Explanation:

QUESTION NO: 113

Which of the following commands can be used to display the local routing table? (Choose TWO correct answers.)

- A.**
ifconfig
- B.**
dig
- C.**
netstat
- D.**
route
- E.**
trackroute

Answer: C,D

Explanation:

QUESTION NO: 114

Which of the following is true about IPv6?

- A.**

With IPv6, the TCP port numbers of most services have changed.

- B.**
IPv6 no longer supports broadcast addresses.
- C.**
IPv4 addresses can be used without any change with IPv6.
- D.**
IPv6 no longer supports multicast addresses.
- E.**
For IPv6, UDP and TCP have been replaced by the Rapid Transmission Protocol RTP.

Answer: B

Explanation:

QUESTION NO: 115 CORRECT TEXT

Which command is used to set the hostname of the local system? (Specify ONLY the command without any path or parameters.)

Answer:
hostname

QUESTION NO: 116 CORRECT TEXT

Which parameter must be passed to ifconfig to activate a previously inactive network interface? (Specify the parameter only without any command, path or additional options)

Answer:
up

QUESTION NO: 117

What is true regarding a default route?

A.

The default route is always used first. When the default route is not available more specific routes are tried.

B.

When a default route is set, all other routes are disabled until the default route is deleted.

C.

The default route is only used if there is not a more specific route to a destination host or network.

D.

Without a default route, no network communication even in directly attached networks is possible.

Answer: C

Explanation:

QUESTION NO: 118

Which of the following lines are valid in the file /etc/hosts? (Choose TWO correct answers.)

A.

2001:db8::15 www.example.com www

B.

www.example.com www 203.0.13.15

C.

203.0.113.15 www.example.com www

D.

www.example.com,www 203.0.13.15,2001:db8::15

E.

2003.0.113.15,2001:db8::15 www.example.com www

Answer: A,C

Explanation:

QUESTION NO: 119

Which of the following keywords can be used in the file `/etc/nsswitch.conf` to specify a source for host name lookups? (Choose TWO correct answers.)

- A.**
resolv
- B.**
dns
- C.**
remote
- D.**
files
- E.**
hosts

Answer: B,D

Explanation:

QUESTION NO: 120

Which of the following may occur as a consequence of using the command `ifconfig`? (Choose THREE correct answers.)

- A.**
New name servers may be added to the resolver configuration.
- B.**
Network interfaces may become active or inactive.
- C.**
The routing table may change.
- D.**
IP addresses may change.
- E.**
The system's host name may change.

Answer: B,C,D

Explanation:

QUESTION NO: 121

What is true regarding TCP port 23?

A.

Port 23 is the well known port for the telnet service which is a plain text protocol that should no longer be used.

B.

Port 23 is the well known port for the SSH service which provides secure logins.

C.

Port 23 is the well known port for the rlogin service which is SSL secured by default.

D.

Port 23 is the well known port for the system login services which are encrypted when the user runs the starttls command in his login shell.

Answer: A

Explanation:

QUESTION NO: 122 CORRECT TEXT

How many IP-addresses can be used for unique hosts inside the IPv4 subnet 192.168.2.128/28?
(Specify the number only without any additional information.)

Answer:

14

QUESTION NO: 123 CORRECT TEXT

What is the lowest numbered unprivileged TCP port? (Specify the number in digits only.)

Answer:

1024

QUESTION NO: 124

Which of the following statements is valid in the file `/etc/nsswitch.conf`?

- A.**
multi on
- B.**
192.168.168.4 dns-server
- C.**
hosts: files dns
- D.**
include `/etc/nsswitch.d/`

Answer: C

Explanation:

QUESTION NO: 125 CORRECT TEXT

NO: 125 FILL BLANK

Which command, depending on its options, can display the open network connections, the routing tables, as well as network interface statistics. (Specify ONLY the command without any path or parameters.)

Answer:

netstat, `/bin/netstat`, ss, `/usr/bin/ss`

QUESTION NO: 126 CORRECT TEXT

Which port is the default server port for the HTTPS protocol? (Specify the port number using digits.)

Answer:

443

QUESTION NO: 127

Which of the following IPv4 networks are reserved by IANA for private address assignment and private routing? (Choose THREE correct answers.)

- A.**
127.0.0.0/8
- B.**
10.0.0.0/8
- C.**
169.255.0.0/16
- D.**
172.16.0.0/12
- E.**
192.168.0.0/16

Answer: B,D,E

Explanation:

QUESTION NO: 128

Which of the following tools used for DNS debugging, reports not only the response from the name server but also details about the query?

- A.**
dnsq
- B.**
dig
- C.**
hostname
- D.**
dnslookup
- E.**
zoneinfo

Answer: B

Explanation:

QUESTION NO: 129

What of the following can be done by the command `ifconfig`? (Choose TWO correct answers.)

- A.**
Set a network interface active or inactive.
- B.**
Specify the kernel module to be used with a network interface.
- C.**
Allow regular users to change the network configuration of a network interface.
- D.**
Change the netmask used on a network interface.
- E.**
Specify which network services are available on a network interface.

Answer: A,D

Explanation:

QUESTION NO: 130

Which of the following programs can be used to determine the routing path to a given destination?

- A.**
`dig`
- B.**
`netstat`
- C.**
`ping`
- D.**
`route`

E.
traceroute

Answer: E
Explanation:

QUESTION NO: 131

Given the following routing table:

```
Kernel IP routing table
Destination      Gateway         Genmask         Flags Metric Ref    Use Iface
0.0.0.0          192.168.178.1  0.0.0.0         UG    0      0          0 wlan0
192.168.1.0      0.0.0.0        255.255.255.0   U      0      0          0 eth0
192.168.2.0      192.168.1.1    255.255.255.0   U      0      0          0 eth0
192.168.178.0    0.0.0.0        255.255.255.0   U      9      0          0 wlan0
```

How would an outgoing packet to the destination 192.168.2.150 be handled?

- A.**
It would be passed to the default router 192.168.178.1 on wlan0.
- B.**
It would be directly transmitted on the device eth0.
- C.**
It would be passed to the default router 255.255.255.0 on eth0.
- D.**
It would be directly transmitted on the device wlan0.
- E.**
It would be passed to the router 192.168.1.1 on eth0.

Answer: E
Explanation:

QUESTION NO: 132

Which of the following is a valid IPv6 address?

A.

2001:db8:3241::1

B.

2001::db8:4581::1

C.

2001:db8:0g41::1

D.

2001%db8%9990%%1

E.

2001.db8.819f..1

Answer: A

Explanation:

QUESTION NO: 133

Which of the following keywords can be used in the file /etc/resolv.conf? (Choose TWO correct answers.)

A.

substitute

B.

nameserver

C.

search

D.

lookup

E.

method

Answer: B,C

Explanation:

QUESTION NO: 134

On a regular users workstation the route command takes a long time before printing out the routing table. Which of the following errors does that indicate?

A.

The local routing information may be corrupted and must be re-validated using a routing protocol.

B.

One of the routers in the routing table is not available which causes the automatic router failure detection mechanism (ARF-D) to wait for a timeout.

C.

There may accidentally be more than one default router in which case a default router election has to be done on the network in order to choose one router as the default.

D.

DNS resolution may not be working as route by default tries to resolve names of routers and destinations and may run into a timeout.

Answer: D

Explanation:

QUESTION NO: 135 CORRECT TEXT

Which keyword must be listed in the hosts option of the Name Service Switch configuration file in order to make host lookups consult the /etc/hosts file?

Answer:

files

QUESTION NO: 136

Which of the following files is consulted when programs like netstat try to match port numbers to names?

A.

/etc/networks

- B.**
/etc/portmapper
- C.**
/etc/protocols
- D.**
/etc/resolv.conf
- E.**
/etc/services

Answer: E

Explanation:

QUESTION NO: 137

Which of the following are valid IPv4 network masks? (Choose two correct answers.)

- A.**
255.255.0.0
- B.**
255.255.255.65
- C.**
255.255.0.255
- D.**
0.0.0.1
- E.**
255.255.255.248

Answer: A,E

Explanation:

QUESTION NO: 138

How does the ping command work by default?

A.

It sends a UDP packet to port 0 of the remote host and waits to receive a UDP error response in return.

B.

It sends an ARP request to a remote host and waits to receive an ARP response in return.

C.

It sends a TCP SYN packet to a remote host and waits to receive a TCP ACK response in return.

D.

It sends a broadcast packet to all hosts on the net and waits to receive, among others, a response from the target system.

E.

It sends an ICMP Echo Request to a remote host and waits to receive an ICMP Echo Response in return.

Answer: E**Explanation:****QUESTION NO: 139**

Given the following routing table:

```
Kernel IP routing table
Destination    Gateway      Genmark      Flags    Metric Ref    Use    Iface
192.168.178.0  0.0.0.0      255.255.255.0  U        9        0        0    wlan0
```

Why does the command `route add default gw 192.168.1.1` fail?

A.

Because there is no route to 192.168.1.1.

B.

Because only one route can exist at a time.

C.

Because there is already a default route.

D.

Because default routes can not be set manually.

E.

Because default routes must be set with `ifconfig`

Answer: A

Explanation:

QUESTION NO: 140

In order to discover the link layer address of the device that owns a specific IPv4 or IPv6 address, which mechanism is used?

- A.**
Both IPv4 and IPv6 use ARP.
- B.**
Both IPv4 and IPv6 use Neighbor Discovery.
- C.**
IPv4 uses ARP while IPv6 uses Neighbor Discovery.
- D.**
IPv4 uses Neighbor Discovery while IPv6 uses ARP.
- E.**
Both IPv4 and IPv6 can use either ARP or Neighbor Discovery depending on the network.

Answer: C

Explanation:

QUESTION NO: 141

What is the purpose of the dig command?

- A.**
It can be used as a tool for querying DNS servers.
- B.**
It can be used for searching through indexed file content.
- C.**
It can be used to look for open ports on a system.
- D.**

It can be used to ping all known hosts on the current subnet.

Answer: A

Explanation:

QUESTION NO: 142 CORRECT TEXT

What is the assigned port number for the HTTP service? (Specify the port number using digits.)

Answer:

80

QUESTION NO: 143 CORRECT TEXT

Which command is used to manually assign an IP address to a network interface? (Specify only the command without any path or parameters.)

Answer:

ifconfig

QUESTION NO: 144

Which of the following commands can be used to associate open TCP ports with the processes that opened the ports?

A.

ptrace

B.

strace

C.

debug

D.

nessus

E.
Isof

Answer: D
Explanation:

QUESTION NO: 145

Which of the following statements is valid in the file /etc/resolv.conf?

- A.**
order hosts, bind
- B.**
192.168.168.4 dns-server
- C.**
hosts: files, dns
- D.**
domain example.com

Answer: D
Explanation:

QUESTION NO: 146

When issuing the command `ifconfig eth0 192.168.1.20/24 up`, which of the following happens?
(Choose two correct answers.)

- A.**
The address 192.168.1.20 is associated with the interface eth0.
- B.**
A network route to 192.168.1.0 with the netmask 255.255.255.0 pointing directly to eth0 is created.
- C.**
192.168.1.1 is probed for router functionality and, in case of success, it is added to the list of default routers.

D.

The addresses from 192.168.1.20 to 192.168.1.24 are activated on the interface eth0.

E.

If eth0 was configured with a previous IP address, it is retained in addition to adding the new address.

Answer: A,B

Explanation:

QUESTION NO: 147 CORRECT TEXT

What is the name of the file that defines the sources (like DNS or local configuration files) and the order in which they are consulted when resolving hostnames? (Specify the full name of the file, including path.)

Answer:

/etc/nsswitch.conf

QUESTION NO: 148 CORRECT TEXT

Instead of using specific host names or IP addresses, which string can be used in /etc/hosts.allow entries to cover any remote host no matter of its name or address? (Specify the relevant string only without any additional options or arguments.)

Answer:

all

QUESTION NO: 149 CORRECT TEXT

Given the following line from /etc/nsswitch.conf:

```
hosts: files mdns4_minimal [NOTFOUND=return] dns mdns4
```

By default, which file will be queried first for hostname lookups? (Specify the full name of the file, including path.)

Answer:
/etc/hosts

QUESTION NO: 150

Depending on the host's configuration, which of the following files can be used to turn on and off network services running on a host? (choose two correct answers.)

- A.**
/etc/profile
- B.**
/etc/services
- C.**
/etc/inetd.conf
- D.**
/etc/xinetd.conf
- E.**
/etc/host.conf

Answer: C,D

Explanation:

QUESTION NO: 151

How many bits make up an IPv6 address?

- A.**
32
- B.**
48
- C.**
64
- D.**
128

E.
256

Answer: D
Explanation:

QUESTION NO: 152

Which of the following is a correct entry in the /etc/hosts file?

- A.**
localhost 127.0.0.1 localhost.localdomain
- B.**
localhost.localdomain localhost 127.0.0.1
- C.**
localhost localhost.localdomain 127.0.0.1
- D.**
127.0.0.1 localhost.localdomain localhost
- E.**
localhost.localdomain 127.0.0.1 localhost

Answer: D
Explanation:

Topic 6, Security

QUESTION NO: 153 CORRECT TEXT

In an xinetd configuration file, which attribute specifies the network address that will be used to provide the service?

Answer:
bind, interface

QUESTION NO: 154 CORRECT TEXT

What argument to the -type option of find will match files that are symbolic links? (Specify only the argument and no other options or words.)

Answer:

l

QUESTION NO: 155 CORRECT TEXT

With X11 forwarding in ssh, what environment variable is automatically set in the remote host shell that is not set when X11 forwarding is not enabled? (Specify only the environment variable without any additional commands or values.)

Answer:

DISPLAY, \$DISPLAY

QUESTION NO: 156 CORRECT TEXT

The presence of what file will temporarily prevent all users except root from logging into the system? (Specify the full name of the file, including path.)

Answer:

/etc/nologin

QUESTION NO: 157

Which configuration file would be edited to change the default options for outbound SSH sessions?

A.

/etc/ssh/sshd_config

B.

/etc/ssh/ssh

C.

/etc/ssh/client

D.

/etc/ssh/ssh_config

E.

/etc/ssh/ssh_client

Answer: D

Explanation:

QUESTION NO: 158

Which of the following programs uses the hosts.allow file to perform its main task of checking for access control restrictions to system services?

A.

tcpd

B.

inetd

C.

fingerd

D.

mountd

E.

xinetd

Answer: A

Explanation:

QUESTION NO: 159

Which command is used to set restrictions on the size of a core file that is created for a user when

a program crashes?

- A.**
core
- B.**
edquota
- C.**
ulimit
- D.**
quota

Answer: C

Explanation:

QUESTION NO: 160

When trying to unmount a device it is reported as being busy. Which of the following commands could be used to determine which process is causing this?

- A.**
debug
- B.**
lsof
- C.**
nessus
- D.**
strace
- E.**
traceroute

Answer: B

Explanation:

QUESTION NO: 161

Which configuration file would be edited to change default options for the OpenSSH server?

- A.**
`/etc/ssh/sshd_config`
- B.**
`/etc/ssh/ssh`
- C.**
`/etc/ssh/server`
- D.**
`/etc/ssh/ssh_config`
- E.**
`/etc/ssh/ssh_server`

Answer: A

Explanation:

QUESTION NO: 162

Which of the following find commands will print out a list of files owned by root and with the SUID bit set in /usr?

- A.**
`find /usr -uid 0 -perm +4000`
- B.**
`find -user root +mode +s /usr`
- C.**
`find -type suid -username root -d /usr`
- D.**
`find /usr -ls *s* -u root`
- E.**
`find /usr -suid -perm +4000`

Answer: A

Explanation:

QUESTION NO: 163 CORRECT TEXT

TION NO: 163 FILL BLANK

Which directory holds the files that configure the xinetd service when using several configuration files instead of an integrated configuration file? (Specify the full path to the directory.)

Answer:

/etc/xinetd.d/, /etc/xinetd.d

QUESTION NO: 164 CORRECT TEXT

Which file lists which users can execute commands using sudo? (Specify the full name of the file, including path.)

Answer:

/etc/sudoers

QUESTION NO: 165 CORRECT TEXT

Which file contains a set of services and hosts that will be allowed to connect to the server by going through a TCP Wrapper program such as tcpd? (Specify the full name of the file, including path.)

Answer:

/etc/hosts.allow

QUESTION NO: 166

Which of the following commands preloads and manages keys that are used for automatic authentication while logging in to other machines using SSH?

- A.**
sshd
- B.**
ssh-agent
- C.**
ssh-keygen
- D.**
ssh-add

Answer: B

Explanation:

QUESTION NO: 167

What is a purpose of an SSH host key?

- A.**
It must be sent by any SSH client in addition to a user key in order to identify the client's host.
- B.**
It provides the server's identity information to connecting SSH clients.
- C.**
It is the root key by which all user SSH keys must be signed.
- D.**
It authenticates any user that logs into a remote machine from the key's host.
- E.**
It is used by system services like cron, syslog or a backup job to automatically connect to remote hosts.

Answer: B

Explanation:

QUESTION NO: 168

Which of the following commands can be used to limit the amount of memory a user may use?

- A.**
umask
- B.**
usermod
- C.**
ulimit
- D.**
passwd
- E.**
chage

Answer: C

Explanation:

QUESTION NO: 169 CORRECT TEXT

On a Linux system with shadow passwords enabled, which file in the file system contains the password hashes of all local users? (Specify the full name of the file, including path.)

Answer:
/etc/shadow

QUESTION NO: 170

Which of the following commands connects to the remote host example.com which has OpenSSH listening on TCP port 2222? (Choose TWO correct answers.)

- A.**
ssh --port 2222 example.com
- B.**
ssh -p 2222 example.com
- C.**
ssh -o Port=2222 example.com

D.

ssh -o GatewayPort=2222 example.com

E.

ssh example.com:2222

Answer: B,C

Explanation:

QUESTION NO: 171

Which of the following resources can be directly limited for a given user using ulimit? (Choose three correct answers.)

A.

Maximum seconds of CPU time spent.

B.

Maximum number of open file descriptors.

C.

Maximum number of processes available.

D.

Maximum number of concurrent login sessions.

E.

Maximum seconds of login duration per session.

Answer: A,B,C

Explanation:

QUESTION NO: 172

Which of the following commands gets the GnuPG public key with the id 63B4835B from the keyserver example.com?

A.

gpg --keyserver hkp://example.com --recv-key 63B4835B

B.

gpg --search-key hkp:// 63B4835B@example.com

C.

gpg --keyserver gpg://example.com --get-key 63B4835B

D.

gpg --keyserver hkp://example.com --add-key 63B4835B

E.

gpg --keyserver gpg://example.com --key 63B4835B

Answer: A

Explanation:

QUESTION NO: 173 CORRECT TEXT

Which command is used to add OpenSSH private keys to a running ssh-agent instance? (Specify the file name only without any path.)

Answer:

ssh-add

QUESTION NO: 174

What is true regarding public and private SSH keys? (Choose two correct answers.)

A.

Several different public keys may be generated for the same private key.

B.

The private key must never be revealed to anyone.

C.

For each user account, there is exactly one key pair that can be used to log into that account.

D.

To maintain the private key's confidentiality, the SSH key pair must be created by its owner.

E.

To allow remote logins, the user's private key must be copied to the remote server.

Answer: B,D

Explanation:

QUESTION NO: 175

Which of the following commands can modify or set the password expiration for a user? (Choose two correct answers.)

- A.**
chage
- B.**
chexpiration
- C.**
shadowconfig
- D.**
passwd
- E.**
userconf

Answer: A,D

Explanation:

QUESTION NO: 176

What happens if the password of a user in the /etc/shadow file is prepended with the ! character?

- A.**
When logging in, the user automatically gets root privileges in addition to his regular privileges.
- B.**
The password is inverted which allows the user to log in with any password other than the current password.
- C.**
The user is disabled and all login methods, including but not limited to password based logins, are disabled.

- D.**
Upon the next log in, the user is forced to change his password.
- E.**
The password becomes invalid which disables password based logins although other login methods remain usable.

Answer: E

Explanation:

QUESTION NO: 177

Which configuration file does sudo read when determining if a user is permitted to run applications with root privileges?

- A.**
/etc/security.conf
- B.**
/etc/supasswd
- C.**
/etc/sudoers
- D.**
/etc/sudo.conf

Answer: C

Explanation:

QUESTION NO: 178

How do shadow passwords improve the password security in comparison to standard passwd passwords?

- A.**
Shadow passwords are stored in plain text and can be checked for weak passwords.
- B.**

Every shadow password is valid for 45 days and must be changed afterwards.

C.

The system's host key is used to strongly encrypt all shadow passwords.

D.

Shadow passwords are always combined with a public key that has to match the user's private key.

E.

Regular users do not have access to the password hashes of shadow passwords.

Answer: E

Explanation: