# LPI

## 102-500

**Exam Name:**

**LPIC-1 System Administrator Exam 102, Part 2 of 2, version 5.0 Exam**

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# Product Questions: 194
# Version: 8.0

## Question: 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**

## Question: 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**

## Question: 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: 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**

## Question: 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**

## Question: 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: 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: 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**

## Question: 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**

## Question: 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**

## Question: 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**

## Question: 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**

## Question: 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**

## Question: 14

What output will the following command produce?
seq 1 5 20

A. 1
6
1
1
1
6
B. 1
5
10
15
C. 1
2
3
4
D. 2
3
4
5
E. 5
10
15
20

**Answer: A**

## Question: 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**

## Question: 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**

## Question: 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**

## Question: 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**

## Question: 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: 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**

## Question: 21

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**

## Question: 22

CORRECT TEXT
Which directory in /etc is used to keep a sample copy of files and directories for when a new user has a home directory created? (Please provide the full path)

**Answer: /etc/skel, /etc/skel/**

## Question: 23

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

A. /etc/bashrc
B. /etc/profile
C. ~/.bash_profile
D. /etc/.bashrc

**Answer: B**

## Question: 24

Which of the following is the best way to list all defined shell variables?

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

**Answer: B**

## Question: 25

Which command allows you to make a shell variable visible to subshells?

A. export $VARIABLE
B. export VARIABLE
C. set $VARIABLE
D. set VARIABLE
E. env VARIABLE

**Answer: B**

## Question: 26

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

A. LIMIT
B. FROM
C. WHERE
D. IF

**Answer: C**

## Question: 27

What benefit does an alias in bash provide?

A. It provides faster lookups for commands in the system directory.
B. It creates a local copy of a file from another directory.
C. It hides what command you are running from others.
D. It allows a string to be substituted for the first word of a simple command.

**Answer: D**

## Question: 28

You are looking into a new script you received from your senior administrator. In the very first line you notice a #! followed by a file path. This indicates that:

A. The file at that location was used to make the script.
B. This script provides identical functionality as the file at that location.
C. This script will self-extract into a file at that location.
D. The program at that location will be used to process the script.

**Answer: D**

## Question: 29

What keyword is missing from this code sample of a shell script?

```
____ i in *.txt; do
  echo $i
done
```

A. for
B. loop
C. until
D. while

**Answer: A**

## Question: 30

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**

## Question: 31

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: 32

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**

## Question: 33

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**

## Question: 34

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**

## Question: 35

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: 36

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**

## Question: 37

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

A. xkb
B. atkb

C. GOK
D. xOSK

**Answer: C**

## Question: 38

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: 39

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**

## Question: 40

X is running okay but you're concerned that you may not have the right color depth set. What single command will show you the running color depth while in X?

A. xcd
B. xcdepth
C. xwininfo
D. xcolordepth
E. cat /etc/X11

**Answer: C**

## Question: 41

Your senior administrator asked you to change the default background of his machine, which uses XDM. Which file would you edit to achieve this?

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

**Answer: A**

## Question: 42

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**

## Question: 43

Why is the xhost program considered dangerous to use?

A. It makes it difficult to uniquely identify a computer on the network.
B. It allows easy access to your X server by other users.
C. It logs sensitive information to syslog.
D. It makes your computer share network resources without any authentication.
E. It is a graphical DNS tool with known exploits.

**Answer: B**

## Question: 44

CORRECT TEXT
An administrator wants to determine the geometry of a particular window in X, so she issues the _____ -metric command and then clicks on the window.

**Answer: /usr/bin/xwininfo, xwininfo**

## Question: 45

On a system running the KDE Display Manager, when is the /etc/kde4/kdm/Xreset script automatically executed?

A. When KDM starts
B. When a user's X session exits
C. When KDM crashes
D. When X is restarted
E. When X crashes

**Answer: B**

## Question: 46

Which of the following lines is an example of a correct setting for the DISPLAY environment variable?

A. hostname:displayname
B. hostname:displaynumber
C. hostname/displayname
D. hostname/displaynumber
E. hostname

**Answer: B**

## Question: 47

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**

## Question: 48

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: 49

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**

## Question: 50

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: 51

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**

## Question: 52

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

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

**Answer: A**

## Question: 53

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**

## Question: 54

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**

## Question: 55

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

A. grouprm
B. groupmod
C. passwd
D. usergroups
E. usermod

**Answer: E**

## Question: 56

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**

## Question: 57

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**

## Question: 58

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: 59

Each entry in a crontab must end with what character?

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

**Answer: D**

## Question: 60

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**

## Question: 61

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**

## Question: 62

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**

## Question: 63

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**

## Question: 64

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: 65

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**

## Question: 66

CORRECT TEXT
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: 67

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

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

**Answer: C**

## Question: 68

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 location of the system's IP address.
C. It is a symlink to /sys/device/clock/ltime and always contains the current local time.
D. After changing this file, newtzconfig has to be run to make the changes effective.
E. It is either a symlink to or a copy of a timezone information file such as /usr/share/zoneinfo/Europe/Berlin.

**Answer: E**

## Question: 69

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**

## Question: 70

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**

## Question: 71

On a system using shadowed passwords, the most correct permissions for /etc/passwd are ___ and the most correct permissions for /etc/shadow are _____.

A. -rw-r-----, -r--------
B. -rw-r--r--, -r--r--r--
C. -rw-r--r--, -r--------
D. -rw-r--rw-, -r-----r--
E. -rw-------, -r--------

**Answer: C**

## Question: 72

A French user has installed the French language pack, but currencies are still being displayed with a leading '$' sign in his spreadsheets. What must be done to fix this?

A. Alter the locale.
B. Set the timezone correctly.
C. Edit /etc/currency.
D. Reinstall the French language pack.

**Answer: A**

## Question: 73

Which of the following can the chage command NOT change?

A. The number of days since January 1, 1970 after which the user's account will no longer be accessible.
B. The number of days since January 1, 1970 after which the password can change.
C. The number of days since January 1, 1970 since the password was last changed.
D. The maximum number of days during which a password is valid.
E. The number of days of inactivity after a password has expired before the account is locked.

**Answer: B**

## Question: 74

CORRECT TEXT
What command will display the group names and GIDs to which a user belongs? (Provide only the command name with or without path information)

**Answer: id, /usr/bin/id**

## Question: 75

Of the ways listed, which is the best method to temporarily suspend a user's ability to interactively login?

A. Use passwd -d username to give the user an empty password.
B. Use chage to expire the user account.
C. Change the user's password.
D. Add the command exit to the user's .login file.

**Answer: B**

## Question: 76

What is the conventional purpose of Linux UIDs that are lower than 100?

A. They are reserved for super user accounts.
B. They are reserved for the system admin accounts.
C. They are reserved for system accounts.
D. They are unused, aside from 0, because they are targets of exploits.
E. They are used to match with GIDs in grouping users.

**Answer: C**

## Question: 77

How is the file format of /etc/crontab different from a normal crontab file? (Select TWO correct answers)

A. The /etc/crontab file can specify a year field.
B. A normal crontab file must be installed with the crontab command.
C. A normal crontab file allows for environment variable substitution.
D. The /etc/crontab file has a user field for commands.

**Answer: B, D**

## Question: 78

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 batch command will run when system load is low. The at command runs at a specific time.
C. The at command reads commands from standard input. The batch command requires a command line argument.
D. The at command e-mails results to the user. The batch command logs results to syslog.

**Answer: B**

## Question: 79

The correct crontab entry to execute the script chklog three times per month between 3 p.m. and 5 p.m.:

A. * 3,4,5 1 * * chklog
B. 3 3,4,5 1 * * chklog
C. 3 15,16,17 * * * chklog
D. 0 15,16,17 1 * * chklog
E. * 15,16,17 1 * * chklog

**Answer: D**

## Question: 80

CORRECT TEXT
The _____ command is used to add a group to the system.

**Answer: groupadd, /usr/sbin/groupadd**

## Question: 81

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**

## Question: 82

Which command should be added to /etc/bash_profile to change the language of messages from an internationalised program to Portuguese (pt)? (Select TWO correct answers)

A. export LANGUAGE="pt"
B. export MESSAGE="pt"
C. export LANG="pt"
D. export LC_MESSAGES="pt"
E. export ALL_MESSAGES="pt"

**Answer: C, D**

## Question: 83

CORRECT TEXT
A user was not given permission to use the CRON scheduling system. What file needs to be modified to provide that access? (Please specify the full path to the file)

**Answer: /etc/cron.allow**

## Question: 84

Which commands can you use 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**

## Question: 85

Why is /etc/shadow not world readable if the passwords are stored in an encrypted fashion?

A. The encrypted passwords are still subject to brute force attacks.
B. This is just for historical reasons.
C. There is other information in the file that needs to be kept secret.

D. The passwords can be decrypted by anyone with root access.

**Answer: A**

## Question: 86

Of the ways listed, which is the best way to temporarily suspend a single user's ability to interactively login?

A. Add the user name to /etc/nologin.
B. Change the user's password.
C. Change the user name in /etc/passwd.
D. Use change to expire the user account.
E. Place the command logout in the user's profile.

**Answer: D**

## Question: 87

Which TWO statements about crontab are true?

A. Every user may have their own crontab.
B. Changing a crontab requires a reload/restart of the cron daemon.
C. The cron daemon reloads crontab files automatically when necessary.
D. hourly is the same as "0 * * * *".
E. A cron daemon must run for each existing crontab.

**Answer: A, C**

## Question: 88

Which crontab entry could be used to set the system time at regular intervals?

A. 1 0 * * * date $d $t $24
B. 1 0 * * * ntpdate ntp1.digex.net
C. 1 0 * * * date ntp1.digex.net
D. 1 0 * * * runcron date ntp1.digex.net
E. 1 0 * * * settime $d $t $24

**Answer: B**

## Question: 89

Which of the following commands can be used to convert text files in one character encoding to another character encoding?

A. cat
B. convert
C. dd
D. iconv
E. utf2utf

**Answer: D**

## Question: 90

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: 91

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: 92

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**

## Question: 93

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

A. local7
B. mail
C. advanced
D. postmaster
E. remote

**Answer: A, B**

## Question: 94

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**

## Question: 95

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**

## Question: 96

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**

## Question: 97

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: 98

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**

## Question: 99

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**

## Question: 100

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**

## Question: 101

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**

## Question: 102

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: 103

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: 104

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: 105

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**

## Question: 106

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**

## Question: 107

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**

## Question: 108

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**

## Question: 109

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**

## Question: 110

CORRECT TEXT
To exclude all log messages of a given logging facility, you should use a logging priority of _____ .

**Answer: none**

## Question: 111

CORRECT TEXT
What command can be used to generate syslog entries of any facility and priority? (supply just the command name without a path)

**Answer: logger**

## Question: 112

You need to pause the CUPS printer HPLaserjet4, and you want to cancel all print jobs with a message, "hello". Which command will do this?

A. cupsreject -c -r hello HPLaserjet4
B. cupsreject -p -m hello HPLaserjet4
C. cupsdisable -c -r hello HPLaserjet4
D. cupsdisable -p -m hello HPLaserjet4

**Answer: C**

## Question: 113

What is pool.ntp.org?

A. A deprecated feature for maintaining system time in the Linux kernel
B. A website which provides binary and source packages for the OpenNTPD project
C. A virtual cluster of various timeservers
D. A community website used to discuss the localization of Linux

**Answer: C**

## Question: 114

On a dual boot system, every time the system is booted back into Linux the time has been set backward by one day. Which of the following commands will correct the problem?

A. date -d '+ 1 day'
B. hwclock --systohc --localtime
C. ntpdate pool.ntp.org
D. time hwclock

**Answer: B**

## Question: 115

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

A. /etc/alias
B. ~/.alias
C. /etc/mail/forwarders
D. ~/.forward
E. ~/.vacation

**Answer: D**

## Question: 116

What command should be used to print a listing of email in the system's mail queue?

A. lpq
B. mailq
C. mlq
D. sendmail –l

**Answer: B**

## Question: 117

What entry can you add to syslog.conf file to have all syslog messages generated by your system go to virtual console 12?

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

**Answer: A**

## Question: 118

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**

## Question: 119

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**

## Question: 120

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: 121

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. traceroute

**Answer: E**

## Question: 122

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**

## Question: 123

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**

## Question: 124

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**

## Question: 125

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: 126

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: 127

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**

## Question: 128

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**

## Question: 129

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**

## Question: 130

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**

## Question: 131

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**

## Question: 132

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: 133

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

**Answer: 1024**

## Question: 134

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**

## Question: 135

CORRECT TEXT
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: 136

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

**Answer: 443**

## Question: 137

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**

## Question: 138

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**

## Question: 139

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**

## Question: 140

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**

## Question: 141

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**

## Question: 142

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**

## Question: 143

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**

## Question: 144

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**

## Question: 145

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: 146

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: 147

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: 148

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: 149

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: 150

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**

## Question: 151

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**

## Question: 152

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**

## Question: 153

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**

## Question: 154

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**

## Question: 155

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**

## Question: 156

CORRECT TEXT
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: 157

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: 158

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.)https://lh3.googleusercontent.com/-5cd-clmKnbk/AAAAAAAAAAI/AAAAAAAAADM/-SXesH19Ido/s46-c-k-no/photo.jpg

**Answer: /etc/hosts.allow**

## Question: 159

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**

## Question: 160

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**

## Question: 161

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**

## Question: 162

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: 163

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**

## Question: 164

CORRECT TEXT
Which command included in NetworkManager is a curses application which provides easy acces to the NetworkManager on the command line? (Specify only the command without any path or parameters.)

**Answer: nmtui**

## Question: 165

What is true about the Hop Limit field in the IPv6 header?

A. The field is not changed during the transport of a package.
B. The field is transmitted within a hop-by-hop extension header.
C. Each router forwarding the packet increases the field's value.
D. Each router forwarding the packet decreases the field's value.
E. For multicast packages, the field's value is always 1.

**Answer: D**

## Question: 166

Which of the following nmcli subcommands exist? (Choose two.)

A. nmcli ethernet
B. nmcli device
C. nmcli wifi
D. nmcli address
E. nmcli connection

**Answer: B,E**

## Question: 167

Which of the following changes may occur as a consequence of using the command ip? (Choose three.)

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

**Answer: A,D,E**

## Question: 168

How many IP addresses can be used for unique hosts inside the IPv4 subnet 192.168.2.128/26?

A. 6
B. 14
C. 30
D. 62
E. 126

**Answer: D**

## Question: 169

Which of the following commands configure network interfaces based on the system's existing distribution-specific configuration files? (Choose two.)

A. ifconf
B. ifdown
C. ifpause
D. ifstart
E. ifup

**Answer: B,E**

## Question: 170

Which of the following statements is true if the UID of a regular user is identical to the GID of a group?

A. UID have precedence over GIDs, therefore the user is available while the group doesn't.
B. The user as well as the group are not available to avoid ambiguity due to the ID conflict.
C. UIDs and GIDs are independent of each other, therefore the user as well as the group are still available.
D. The user is the only member of the group, even if the group configuration contains other members.
E. GIDs have precedence over UIDs, therefore the group is available while the user isn't.

**Answer: C**

## Question: 171

Which of the following information is stored in /etc/shadow for each user?

A. The timestamp of the user's last login
B. The user's private SSH keys
C. The hashed password of the user
D. The numerical user ID (UID)
E. The path to the user's home directory

**Answer: C**

## Question: 172

Which of the following commands shows all active systemd timers?

A. systemctl-timer show
B. timectl list
C. systemctl –t
D. systemctl list-timers
E. timeq

**Answer: D**

## Question: 173

Which of the following tasks can the date command accomplish? (Choose two.)

A. Set the system's date and time.
B. Set the system's date but not the time.
C. Calculate the time span between two dates.
D. Print a calendar for a month or a year.
E. Display time in a specific format.

**Answer: A,E**

## Question: 174

CORRECT TEXT
Which file, if present, must contain all users that are allowed to use the cron scheduling system? (Specify the full name of the file, including path.)

**Answer: crontab**

## Question: 175

What can be specified with useradd? (Choose two.)

A. Commands the user can run using sudo.
B. The absolute path to the user's home directory.
C. Which printers are available for the new user.
D. The SSH keys used to login to the new account.
E. The numeric user ID (UID) of the user.

**Answer: B,E**

## Question: 176

Which of the following statements is true regarding systemd timer units?

A. Timer units can only be defined within a service unit's file.
B. The command executed by the timer is specified in the timer unit's [Cmd] section.
C. A dedicated system service, systemd-cron, handles the execution of timer units.
D. Timer units only exist in the system scope and are not available for users.
E. Each systemd timer unit controls a specific systemd service unit.

**Answer: E**

## Question: 177

Which of the following fields are available in the standard format of both the global /etc/crontab file as well as in user-specific crontab files? (Choose two.)

A. Year
B. Minute
C. Username
D. Effective group ID
E. Command

**Answer: B,D**

## Question: 178

Which of the following commands should be executed when starting a login shell in order to change the language of messages for an internationalized program to Portuguese (pt)?

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

**Answer: B**

## Question: 179

CORRECT TEXT
Which command included in systemd supports selecting messages from the systemd journal by criteria such as time or unit name? (Specify only the command without any path or parameters.)

**Answer: journalctl**

## Question: 180

Which of the following statements about sytemd-journald are true? (Choose three.)

A. It is incompatible with syslog and cannot be installed on a system using regular syslog.
B. It only processes messages of systemd and not messages of any other tools.
C. It can pass log messages to syslog for further processing.
D. It maintains metadata such as _UID or _PID for each message.
E. It supports syslog facilities such as kern, user, and auth.

**Answer: C,D,E**

## Question: 181

Which option in the chrony configuration file changes the initial interval of polls to a NTP server in order to speed up the initial synchronization?

A. iburst
B. quickstart
C. fast
D. D. fsync
E. flood

**Answer: A**

## Question: 182

CORRECT TEXT
What is the top-level directory which contains the configuration files for CUPS? (Specify the full path to the directory.)

**Answer: /etc/cups/ cups-files.conf**

## Question: 183

Which of the following commands lists all queued print jobs?

A. lpd
B. lpr
C. lp
D. lsq
E. lpq

**Answer: E**

## Question: 184

Which of the following entries in /etc/syslog.conf writes all mail related events to the file /var/log/maillog and sends all critical events to the remote server logger.example.com?

A. mail.*/var/log/maillogmail,crit@logger.example.org
B. mail.*/var/log/maillogmail.critsyslog://logger.example.org
C. mail/var/log/maillogmail.crit@logger.example.org
D. mail.*/var/log/maillogmail.crit@logger.example.org
E. mail */var/log/maillogmail crit@logger.example.org

**Answer: D**

## Question: 185

Which of the following protocols is related to the term open relay?

A. SMTP
B. POP3
C. NTP
D. IMAP
E. LDAP

**Answer: A**

## Question: 186

Which of the following commands displays all environment and shell variables?

A. getargs

B. lsenv
C. ls
D. env
E. lsshell

**Answer: D**

## Question: 187

Which of the following comparison operators for test work on elements in the file system? (Choose two.)

A. –z
B. –eq
C. –d
D. –f
E. –lt

**Answer: C,D**

## Question: 188

What the echo $$ command?

A. The process ID of the current shell.
B. The process ID for the following command.
C. The process ID of the last command executed.
D. The process ID of the last command which has been placed in the background.
E. The process ID of the echo command.

**Answer: A**

## Question: 189

What output is produced by the following command sequence?
echo '1 2 3 4 5 6' | while read a b c; do
echo result $c $b $a;
done

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

**Answer: C**

## Question: 190

What is the purpose of TCP wrapper?

A. Manage and adjust bandwidth used by TCP services.
B. Bind a network service to a TCP port.
C. Encapsulate TCP messages in IP packets.
D. Add SSL support to plain text TCP services.
E. Limit access to a network service.

**Answer: E**

## Question: 191

Given the following excerpt of the sudo configuration:
jane ANY=NOPASSWD: /bin/kill, /bin/id, PASSWD: /sbin/fdisk
Which of the following statements are true? (Choose three.)

A. Jane can run /bin/id only after specifying her password.
B. Jane can run /sbin/fdisk after specifying root's password.
C. Jane can run /sbin/fdisk after specifying her password.
D. Jane can run /bin/kill without specifying a password.
E. Jane can run /bin/id without specifying her password.

**Answer: C,D,E**

## Question: 192

Which configuration file contains the default options for SSH clients?

A. /etc/ssh/sshd_config
B. /etc/ssh/ssh
C. /etc/ssh/ssh_config
D. /etc/ssh/client
E. /etc/ssh/ssh_client

**Answer: C**

## Question: 193

Which of the following commands can identify the PID od a process which opened a TCP port?

A. ptrace
B. strace
C. debug
D. lsof
E. nessus

**Answer: D**

## Question: 194

Which of the following features are provided by SPICE? (Choose two.)

A. Connecting local USB devices to remote applications.
B. Accessing graphical applications on a remote host.
C. Replacing Xorg as local X11 server.
D. Downloading and locally installing applications from a remote machine.
E. Uploading and running a binary program on a remote machine.

**Answer: A,D**

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