

LPI 102-400

LPI Level 1 Exam 102, Junior Level Linux Certification, Part 2 of 2

Topic 1, Shells, Scripting and Data Management

Q1

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:

Q2

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:

Q3

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:

Answer: VALUES, values

Q4

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:

Q5

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:

Q6

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:

Answer: /etc/skel

Q7

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:

Answer: select

Q8

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:

Q9

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:

Q10

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:

Q11

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:

Q12

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:

Q13

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:

Q14

What output will the following command produce?

`seq 1 5 20`

- A. 1
- B. 1
- C. 1
- D. 2
- E. 5

Answer: A

Explanation:

Q15

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:

Q16

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:

Q17

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:

Q18

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:

Q19

CORRECT TEXT

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

Answer:

Answer: alias, alias -p

Q20

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:

Topic 2, User Interfaces and Desktops

Q21

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:

Q22

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:

Answer: /usr/bin/xwininfo, xwininfo

Q23

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:

Q24

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:

Q25

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:

Q26

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:



Answer: xorg.conf

Q27

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:

Q28

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

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

Answer: C

Explanation:

Q29

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

Q30

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:

Topic 3, Administrative Tasks

Q31

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:

Q32

CORRECT TEXT

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

Answer:

Answer: `/etc/at.deny`

Q33

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:

Q34

## 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:

Answer: /usr/share/zoneinfo/

Q35

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:

Q36

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

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

Answer: A

Explanation:

Q37

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:

Q38

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:

Q39

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:

Q40

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:

Q41

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:

Q42

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

Q43

Each entry in a crontab must end with what character?

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

Answer: D

Explanation:

Q44

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:

Q45

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:

Q46

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:

Q47

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:

Q48

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:

Answer: /etc/cron.allow

Q49

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:

Q50

CORRECT TEXT

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

Answer:

Answer: groupadd, /usr/sbin/groupadd

Q51

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:

Q52

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:

Q53

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 removed from all mounted filesystems.
- E. In case `bob` was the last member of a group, that group is deleted.

Answer: A,B

Explanation:

Q54

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:

Topic 4, Essential System Services

Q55

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:

Answer: server

Q56

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:

Answer: `lpq`, `/usr/bin/lpq`, `lpstat`, `/usr/bin/lpstat`

Q57

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:

Q58

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:

Q59

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:

Q60

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:

Q61

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:

Q62

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:

Answer: newaliases, sendmail -bi

Q63

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:

Q64

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:

Q65

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:

Q66

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:

Q67

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:

Answer: hwclock, /sbin/hwclock, /usr/sbin/hwclock

Q68

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:

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

Q69

CORRECT TEXT

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

Answer:

Answer: /etc/cups, /etc/cups/

Q70

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:

Q71

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:

Q72

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:

Q73

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:

Q74

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:

Topic 5, Networking Fundamentals

Q75

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:

Q76

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:

Q77

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

Q78

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

Explanation:

Q79

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:

Q80

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:

Q81

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:

Q82

CORRECT TEXT

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

Answer:

Answer: hostname

Q83

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

Q84

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:

Q85

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:

Q86

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:

Q87

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:

Q88

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:

Q89

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

Q90

CORRECT TEXT

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

Answer: 1024

Q91

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:

Q92

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:

Answer: netstat, /bin/netstat, ss, /usr/bin/ss

Q93

CORRECT TEXT

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

Answer: 443

Q94

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:

Q95

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:

Q96

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:

Q97

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:

Q98

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:

Q99

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:

Q100

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:

Q101

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:

Q102

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:

Answer: files

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Q103

CORRECT TEXT

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

Answer:

Answer: bind, interface

Q104

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

Q105

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:

Answer: DISPLAY, \$DISPLAY

Q106

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:

Answer: /etc/nologin

Q107

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:

Q108

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:

Q109

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:

Q110

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:

Q111

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:

Q112

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:

Q113

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:

Answer: /etc/xinetd.d/, /etc/xinetd.d

Q114

CORRECT TEXT

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

Answer:

Answer: /etc/sudoers

Q115

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/-SXesH19ldo/s46-c-k-no/photo.jpg>

Answer:

Answer: /etc/hosts.allow

Q116

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:

Q117

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:

Q118

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:

Q119

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:

Answer: /etc/shadow

Q120

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