

# LPI

## Exam Questions 102-500

LPIC-1 Exam 102 - Part 2 of 2 - version 5.0



#### NEW QUESTION 1

- (Exam Topic 1)

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

#### NEW QUESTION 2

- (Exam Topic 1)

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

#### NEW QUESTION 3

- (Exam Topic 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

#### NEW QUESTION 4

- (Exam Topic 1)

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

- A. 161116
- B. 151015
- C. 1234
- D. 2345
- E. 5101520

**Answer:** A

#### NEW QUESTION 5

- (Exam Topic 1)

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

#### NEW QUESTION 6

- (Exam Topic 1)

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.
- C. The `-e` option tests for an empty file.
- D. Both options check the existence of the path.
- E. The `-f` option also confirms that it is a regular file.
- F. The `-f` option tests for a regular file.
- G. The `-e` option tests for an executable file.

**Answer:** C

#### NEW QUESTION 7

- (Exam Topic 1)

What word is missing from the following SQL statement?

\_\_\_\_\_ count(\*) from tablename;

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

select

#### NEW QUESTION 8

- (Exam Topic 1)

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

#### NEW QUESTION 9

- (Exam Topic 1)

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

#### NEW QUESTION 10

- (Exam Topic 1)

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

#### NEW QUESTION 10

- (Exam Topic 2)

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

#### NEW QUESTION 15

- (Exam Topic 2)

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

#### NEW QUESTION 19

- (Exam Topic 2)

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

#### NEW QUESTION 23

- (Exam Topic 2)

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

xorg.conf

#### NEW QUESTION 26

- (Exam Topic 2)

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

#### NEW QUESTION 28

- (Exam Topic 2)

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:** AC

#### NEW QUESTION 32

- (Exam Topic 3)

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:** BD

#### NEW QUESTION 37

- (Exam Topic 3)

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)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

/etc/cron.allow

#### NEW QUESTION 41

- (Exam Topic 3)

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.)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

/etc/cron.allow

#### NEW QUESTION 46

- (Exam Topic 3)

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:** CD

#### NEW QUESTION 48

- (Exam Topic 3)

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

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

groupadd, /usr/sbin/groupadd

#### NEW QUESTION 52

- (Exam Topic 3)

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

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

**Answer:** A

#### NEW QUESTION 55

- (Exam Topic 3)

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

#### NEW QUESTION 60

- (Exam Topic 3)

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)

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

/usr/share/zoneinfo/

#### NEW QUESTION 61

- (Exam Topic 3)

The \_\_\_\_\_ command is used to add a group to the system.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

groupadd, /usr/sbin/groupadd

#### NEW QUESTION 64

- (Exam Topic 3)

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

#### NEW QUESTION 69

- (Exam Topic 3)

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:** BD

#### NEW QUESTION 74

- (Exam Topic 3)

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:** ABD

#### NEW QUESTION 78

- (Exam Topic 3)

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

#### NEW QUESTION 80

- (Exam Topic 3)

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.
- C. The at command runs at a specific time.
- D. The at command reads commands from standard input.
- E. The batch command requires a command line argument.
- F. The at command e-mails results to the user.
- G. The batch command logs results to syslog.

**Answer:** B

#### NEW QUESTION 82

- (Exam Topic 3)

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

#### NEW QUESTION 85

- (Exam Topic 4)

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

#### NEW QUESTION 90

- (Exam Topic 4)

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:** BC

#### NEW QUESTION 94

- (Exam Topic 4)

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.)

- A. `Mastered`
- B. `Not Mastered`

**Answer:** A

#### Explanation:

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

#### NEW QUESTION 97

- (Exam Topic 4)

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.)

- A. `Mastered`
- B. `Not Mastered`

**Answer:** A

#### Explanation:

`newaliases`, `sendmail -bi`

#### NEW QUESTION 99

- (Exam Topic 4)

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

#### NEW QUESTION 104

- (Exam Topic 4)

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

- A. `Mastered`
- B. `Not Mastered`

**Answer:** A

#### Explanation:

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

#### NEW QUESTION 109

- (Exam Topic 4)

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

- A. `Mastered`
- B. `Not Mastered`

**Answer:** A

**Explanation:**  
logger

**NEW QUESTION 112**

- (Exam Topic 4)

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**

**NEW QUESTION 115**

- (Exam Topic 4)

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**

**NEW QUESTION 120**

- (Exam Topic 4)

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**

**NEW QUESTION 123**

- (Exam Topic 4)

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**

**NEW QUESTION 128**

- (Exam Topic 4)

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. day, month and year) but not the time (i. hours, minutes, seconds).
- C. day, month and year) but not the time (i. hours, minutes, seconds).
- D. hours, minutes, seconds).
- E. It queries one or more NTP time servers and adjusts the system time accordingly.
- F. It sends the local system time to one or many remote NTP time servers for redistribution.
- G. It can be used by any user to set the user clock independently of the system clock.

**Answer: C**

**NEW QUESTION 129**

- (Exam Topic 5)

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**

**NEW QUESTION 132**



- (Exam Topic 5) What is true regarding a default route?

- A. The default route is always used first.
- B. When the default route is not available more specific routes are tried.
- C. When a default route is set, all other routes are disabled until the default route is deleted.
- D. The default route is only used if there is not a more specific route to a destination host or network.
- E. Without a default route, no network communication even in directly attached networks is possible.

**Answer:** C

#### NEW QUESTION 137

- (Exam Topic 5)

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.)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

14

#### NEW QUESTION 139

- (Exam Topic 5)

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

#### NEW QUESTION 142

- (Exam Topic 5)

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

1024

#### NEW QUESTION 144

- (Exam Topic 5)

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

hostname

#### NEW QUESTION 145

- (Exam Topic 5)

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:** BD

#### NEW QUESTION 150

- (Exam Topic 5)

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:** BDE

#### NEW QUESTION 154

- (Exam Topic 5)

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

#### NEW QUESTION 157

- (Exam Topic 5)

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

#### NEW QUESTION 162

- (Exam Topic 5)

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:** AC

#### NEW QUESTION 163

- (Exam Topic 5)

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

64

#### NEW QUESTION 167

- (Exam Topic 6)

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

#### NEW QUESTION 168

- (Exam Topic 6)

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.)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**  
DISPLAY, \$DISPLAY

**NEW QUESTION 172**

- (Exam Topic 6)

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/s4>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**  
/etc/hosts.allow

**NEW QUESTION 174**

- (Exam Topic 6)

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

**NEW QUESTION 179**

- (Exam Topic 6)

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

**NEW QUESTION 180**

- (Exam Topic 6)

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

**NEW QUESTION 184**

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