



**LPI**

## **Exam Questions 102-500**

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

### NEW QUESTION 1

- (Exam Topic 1)

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

alias, alias -p

### NEW QUESTION 2

- (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 3

- (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 4

- (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 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 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

#### NEW QUESTION 7

- (Exam Topic 1)

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

#### NEW QUESTION 8

- (Exam Topic 1)

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)

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

`/etc/skel, /etc/skel/`

#### NEW QUESTION 9

- (Exam Topic 1)

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

#### NEW QUESTION 10

- (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 13

- (Exam Topic 2)

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

#### NEW QUESTION 15

- (Exam Topic 2)

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

#### NEW QUESTION 18

- (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)

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.)

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

xdm

#### NEW QUESTION 20

- (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 22

- (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 27

- (Exam Topic 3)

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

#### NEW QUESTION 32

- (Exam Topic 3)

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

### NEW QUESTION 37

- (Exam Topic 3)

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**

### NEW QUESTION 38

- (Exam Topic 3)

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**

### NEW QUESTION 43

- (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 48

- (Exam Topic 3)

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**

### NEW QUESTION 52

- (Exam Topic 3)

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**

### NEW QUESTION 55

- (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 60

- (Exam Topic 3)

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

#### NEW QUESTION 61

- (Exam Topic 3)

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

#### NEW QUESTION 65

- (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 67

- (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 69

- (Exam Topic 4)

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

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

**Answer:** AB

#### NEW QUESTION 72

- (Exam Topic 4)

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

#### NEW QUESTION 73

- (Exam Topic 4)

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

#### NEW QUESTION 77

- (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 78

- (Exam Topic 4)

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

#### NEW QUESTION 79

- (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 80

- (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 81

- (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 84

- (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.
- C. day, month and year) but not the time (i.
- 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 89

- (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 94

- (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 98

- (Exam Topic 5)

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

#### NEW QUESTION 103

- (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 104

- (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 107

- (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 110

- (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 112**

- (Exam Topic 5)

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:** AD

**NEW QUESTION 115**

- (Exam Topic 5)

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

**NEW QUESTION 118**

- (Exam Topic 5)

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

**NEW QUESTION 120**

- (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 123**

- (Exam Topic 6)

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

`bind, interface`

**NEW QUESTION 127**

- (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 128**

- (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 133

- (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 135

- (Exam Topic 6)

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.)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

/etc/nologin

### NEW QUESTION 139

- (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 143

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