



# **LPI**

## **Exam Questions 101-500**

LPIC-1 Exam 101 - Part 1 of 2 - version 5.0

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#### NEW QUESTION 1

- (Exam Topic 1)

What information can the lspci command display about the system hardware? (Choose THREE correct answers.)

- A. Device IRQ settings
- B. PCI bus speed
- C. System battery type
- D. Device vendor identification
- E. Ethernet MAC address

**Answer:** ABD

#### NEW QUESTION 2

- (Exam Topic 1)

You are having some trouble with a disk partition and you need to do maintenance on this partition but your users home directories are on it and several are logged in. Which command would disconnect the users and allow you to safely execute maintenance tasks?

- A. telinit 1
- B. shutdown -r now
- C. killall -9 inetd
- D. /bin/netstop --maint
- E. /etc/rc.d/init.d/network stop

**Answer:** A

#### NEW QUESTION 3

- (Exam Topic 1)

Which of the following information is stored within the BIOS? (Choose TWO correct answers.)

- A. Boot device order
- B. Linux kernel version
- C. Timezone
- D. Hardware configuration
- E. The system's hostname

**Answer:** AD

#### NEW QUESTION 4

- (Exam Topic 1)

Which of the following kernel parameters instructs the kernel to suppress most boot messages?

- A. silent
- B. verbose=0
- C. nomsg
- D. quiet

**Answer:** D

#### NEW QUESTION 5

- (Exam Topic 1)

Which of the following commands reboots the system when using SysV init? (Choose TWO correct answers.)

- A. shutdown -r now
- B. shutdown -r "rebooting"
- C. telinit 6
- D. telinit 0
- E. shutdown -k now "rebooting"

**Answer:** AC

#### NEW QUESTION 6

- (Exam Topic 1)

Which of the following commands brings a system running SysV init into a state in which it is safe to perform maintenance tasks? (Choose TWO correct answers.)

- A. shutdown -R 1 now
- B. shutdown -single now
- C. init 1
- D. telinit 1
- E. runlevel 1

**Answer:** CD

#### NEW QUESTION 7

- (Exam Topic 1)

The message "Hard Disk Error" is displayed on the screen during Stage 1 of the GRUB boot process. What does this indicate?

- A. The kernel was unable to execute /bin/init
- B. The next Stage cannot be read from the hard disk because GRUB was unable to determine the size and geometry of the disk
- C. One or more of the filesystems on the hard disk has errors and a filesystem check should be run
- D. The BIOS was unable to read the necessary data from the Master Boot Record to begin the boot process

**Answer:** B

#### NEW QUESTION 8

- (Exam Topic 1)

Which of the following options for the kernel's command line changes the systemd boot target to rescue.target instead of the default target?

- A. systemd.target=rescue.target
- B. systemd.runlevel=rescue.target
- C. systemd.service=rescue.target
- D. systemd.default=rescue.target
- E. systemd.unit=rescue.target

**Answer:** E

#### NEW QUESTION 9

- (Exam Topic 1)

Which file in the /proc filesystem lists parameters passed from the bootloader to the kernel? (Specify the file name only without any path.)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

cmdline, /proc/cmdline

#### NEW QUESTION 10

- (Exam Topic 2)

Which Debian package management tool asks the configuration questions for a specific already installed package just as if the package were being installed for the first time? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

dpkg-reconfigure

#### NEW QUESTION 10

- (Exam Topic 2)

To what environment variable will you assign or append a value if you need to tell the dynamic linker to look in a build directory for some of a program's shared libraries?

- A. LD\_LOAD\_PATH
- B. LD\_LIB\_PATH
- C. LD\_LIBRARY\_PATH
- D. LD\_SHARE\_PATH
- E. LD\_RUN\_PATH

**Answer:** C

#### NEW QUESTION 12

- (Exam Topic 2)

After modifying GNU GRUB's configuration file, which command must be run for the changes to take effect?

- A. kill -HUP \$(pidof grub)
- B. grub-install
- C. grub
- D. No action is required

**Answer:** D

#### NEW QUESTION 16

- (Exam Topic 2)

Which of the following commands overwrites the bootloader located on /dev/sda without overwriting the partition table or any data following it?

- A. dd if=/dev/zero of=/dev/sda bs=512
- B. dd if=/dev/zero of=/dev/sda bs=512 count=1
- C. dd if=/dev/zero of=/dev/sda bs=440 count=1
- D. dd if=/dev/zero of=/dev/sda bs=440

**Answer:** C

#### NEW QUESTION 17

- (Exam Topic 2)

Which of the following environment variables overrides or extends the list of directories holding shared libraries?

- A. LD\_LOAD\_PATH
- B. LD\_LIB\_PATH
- C. LD\_LIBRARY\_PATH
- D. LD\_SHARE\_PATH
- E. LD\_RUN\_PATH

**Answer:** C

#### NEW QUESTION 21

- (Exam Topic 3)

Which of the following commands can be used to determine how long the system has been running? (Choose TWO correct answers.)

- A. uptime
- B. up
- C. top
- D. uname -u
- E. time -up

**Answer:** AC

#### NEW QUESTION 22

- (Exam Topic 3)

When given the following command line. echo "foo bar" | tee bar | cat

Which of the following output is created?

- A. cat
- B. foo bar
- C. tee bar
- D. bar
- E. foo

**Answer:** B

#### NEW QUESTION 23

- (Exam Topic 3)

Which of the following commands will send output from the program myapp to both standard output (stdout) and the file file1.log?

- A. cat < myapp | cat > file1.log
- B. myapp 0>&1 | cat > file1.log
- C. myapp | cat > file1.log
- D. myapp | tee file1.log
- E. tee myapp file1.log

**Answer:** D

#### NEW QUESTION 24

- (Exam Topic 3)

Which grep command will print only the lines that do not end with a / in the file foo?

- A. grep '\$' foo
- B. grep '/'#' foo
- C. grep -v '\$' foo
- D. grep -v '/'#' foo

**Answer:** C

#### NEW QUESTION 26

- (Exam Topic 3)

In a nested directory structure, which find command line option would be used to restrict the command to searching down a particular number of subdirectories?

- A. -dirmax
- B. -maxdepth
- C. -maxlevels
- D. -n
- E. -s

**Answer:** B

#### NEW QUESTION 28

- (Exam Topic 3)

What is the default nice level when a process is started using the nice command?

- A. -10
- B. 10
- C. 20

**Answer:** B

#### NEW QUESTION 33

- (Exam Topic 3)

While editing a file in vi, the file changes due to another process. Without exiting vi, how can the file be reopened for editing with the new content?

- A. :r
- B. :n
- C. :w
- D. :e

**Answer:** D

#### NEW QUESTION 35

- (Exam Topic 3)

Which of the following commands prints all files and directories within the /tmp directory or its subdirectories which are also owned by the user root? (Choose TWO correct answers.)

- A. find /tmp -uid root -print
- B. find -path /tmp -uid root
- C. find /tmp -user root -print
- D. find /tmp -user root
- E. find -path /tmp -user root -print

**Answer:** CD

#### NEW QUESTION 36

- (Exam Topic 3)

In the vi editor, how can commands such as moving the cursor or copying lines into the buffer be issued multiple times or applied to multiple rows?

- A. By using the command :repeat followed by the number and the command.
- B. By specifying the number right in front of a command such as 4l or 2yj.
- C. By selecting all affected lines using the shift and cursor keys before applying the command.
- D. By issuing a command such as :set repetition=4 which repeats every subsequent command 4 times.

**Answer:** B

#### NEW QUESTION 38

- (Exam Topic 3)

Which of the following characters can be combined with a separator string in order to read from the current input source until the separator string, which is on a separate line and without any trailing spaces, is reached?

- A. <<
- B. <|
- C. !<
- D. &<

**Answer:** A

#### NEW QUESTION 40

- (Exam Topic 3)

Which command is used in a Linux environment to create a new directory? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

mkdir, /usr/bin/mkdir

#### NEW QUESTION 45

- (Exam Topic 3)

From a Bash shell, which of the following commands directly executes the instruction from the file /usr/local/bin/runme.sh without starting a subshell? (Please select TWO answers.)

- A. source /usr/local/bin/runme.sh
- B. . /usr/local/bin/runme.sh
- C. /bin/bash /usr/local/bin/runme.sh
- D. /usr/local/bin/runme.sh

E. `run /usr/local/bin/runme.sh`

**Answer:** AB

#### NEW QUESTION 47

- (Exam Topic 3)

Which of the following shell redirections will write standard output and standard error output to a file named filename?

- A. `2>&1 >filename`
- B. `>filename 2>&1`
- C. `1>&2>filename`
- D. `>>filename`
- E. `1&2>filename`

**Answer:** B

#### NEW QUESTION 48

- (Exam Topic 3)

Regarding the command: `nice -5 /usr/bin/prog`

Which of the following statements is correct?

- A. `/usr/bin/prog` is executed with a nice level of -5.
- B. `/usr/bin/prog` is executed with a nice level of 5.
- C. `/usr/bin/prog` is executed with a priority of -5.
- D. `/usr/bin/prog` is executed with a priority of 5.

**Answer:** B

#### NEW QUESTION 53

- (Exam Topic 3)

Which of the following commands kills the process with the PID 123 but allows the process to "clean up" before exiting?

- A. `kill -PIPE 123`
- B. `kill -KILL 123`
- C. `kill -STOP 123`
- D. `kill -TERM 123`

**Answer:** D

#### NEW QUESTION 55

- (Exam Topic 3)

You are trying to make a hard link to an ordinary file but `ln` returns an error. Which of the following could cause this?

- A. The source file is hidden.
- B. The source file is read-only.
- C. The source file is a shell script.
- D. You do not own the source file.
- E. The source and the target are on different filesystems.

**Answer:** E

#### NEW QUESTION 57

- (Exam Topic 4)

Which of the following commands will produce the following output?

USER	PID	%CPU	%MEM	VSZ	RSS	TTY	STAT	START	TIME	COMMAND
root	1255	4.4	0.9	60716	34824	tty7	Ss+	09:25	19:04	/usr/bin/X :0 -
root	2016	0.0	0.0	1792	560	tty1	Ss+	09:26	0:00	/sbin/getty -8
matt	5204	0.0	0.1	6320	3696	pts/4	Ss	13:12	0:00	bash
matt	5219	0.0	0.0	3988	1624	pts/4	S+	13:12	0:00	man bash
matt	5229	0.0	0.0	3584	932	pts/4	S+	13:12	0:00	pager -s
matt	6768	0.0	0.1	10504	3880	pts/2	S+	15:11	0:00	vi README.txt

- A. `jobs`
- B. `proclist`
- C. `netstat`
- D. `ps`

**Answer:** D

#### NEW QUESTION 58

- (Exam Topic 4)

Which of the following commands instructs SysVinit to reload its configuration file?

- A. `reinit`

- B. initreload
- C. telinit 7
- D. telinit q
- E. init reinit

**Answer:** D

#### NEW QUESTION 62

- (Exam Topic 4)

What does the command mount -a do?

- A. It mounts all available filesystems onto the current directory.
- B. It shows all mounted filesystems.
- C. It mounts all user mountable filesystems for the current user.
- D. It mounts all filesystems listed in /etc/fstab which have the option auto set.
- E. It mounts all filesystems listed in /etc/fstab which have the option noauto set.

**Answer:** D

#### NEW QUESTION 64

- (Exam Topic 4)

Which command is used to create and initialize the files used to store quota information? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

quotacheck

#### NEW QUESTION 69

- (Exam Topic 4)

Which of the following settings for umask ensures that new files have the default permissions -rw-r----- ?

- A. 0017
- B. 0640
- C. 0038
- D. 0027

**Answer:** D

#### NEW QUESTION 72

- (Exam Topic 4)

What do the permissions -rwsr-xr-x mean for a binary file when it is executed as a command?

- A. The command is SetUID and it will be executed with the effective rights of the owner.
- B. The command will be executed with the effective rights of the group instead of the owner.
- C. The execute flag is not set for the owner.
- D. Therefore the SetUID flag is ignored.
- E. The command will be executed with the effective rights of the owner and group.

**Answer:** C

#### NEW QUESTION 74

- (Exam Topic 4)

What is the purpose of the Filesystem Hierarchy Standard?

- A. It is a security model used to ensure files are organized according to their permissions and accessibility.
- B. It provides unified tools to create, maintain and manage multiple filesystems in a common way.
- C. It defines a common internal structure of inodes for all compliant filesystems.
- D. It is a distribution neutral description of locations of files and directories.

**Answer:** D

#### NEW QUESTION 75

- (Exam Topic 4)

Which of the following commands set the sticky bit for the directory /tmp? (Choose TWO correct answers.)

- A. chmod +s /tmp
- B. chmod +t /tmp
- C. chmod 1775 /tmp
- D. chmod 4775 /tmp
- E. chmod 2775 /tmp

**Answer:** BC



#### NEW QUESTION 76

- (Exam Topic 4)

Which utility would be used to change how often a filesystem check is performed on an ext2 filesystem without losing any data stored on that filesystem?

- A. mod2fs
- B. fsck
- C. tune2fs
- D. mke2fs
- E. fixe2fs

**Answer:** C

#### NEW QUESTION 77

- (Exam Topic 4)

Which command creates a swap space on a block device or a file? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

mkswap

#### NEW QUESTION 80

- (Exam Topic 4)

Which of the following options must be passed to a filesystem's entry in /etc/fstab in order to mount the file system without root privileges?

- A. auto
- B. norestrict
- C. noauto
- D. user

**Answer:** D

#### NEW QUESTION 85

- (Exam Topic 4)

Which of the following commands converts spaces in a file to tab characters and prints the result to standard output?

- A. iconv
- B. expand
- C. unexpand
- D. tab

**Answer:** C

#### NEW QUESTION 87

- (Exam Topic 4)

When planning a partition scheme, which of the following directories could be considered for separate partitions? (Choose three.)

- A. /etc
- B. /home
- C. /var
- D. /lib
- E. /opt

**Answer:** B

#### NEW QUESTION 89

- (Exam Topic 4)

What is the purpose of the xargs command?

- A. It passes arguments to an X server.
- B. It reads standard input (STDIN) and builds up command lines to execute.
- C. It helps shells scripts take variable argument lists.
- D. It asks a question, graphically, and returns the answer to the shell.
- E. It allows users to specify long options for commands that normally only accept short options.

**Answer:** B

#### NEW QUESTION 93

- (Exam Topic 4)

Which of the following partition types is used for Linux swap spaces when partitioning hard disk drives?

- A. 82

- B. 83
- C. 8e
- D. fd
- E. 7

**Answer:** B

#### NEW QUESTION 97

- (Exam Topic 4)

Which command is used to start another command with a given nice level? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

nice

#### NEW QUESTION 99

- (Exam Topic 4)

Which of the following commands can be used to create a new file that is 100kB in size?

- A. dd
- B. file
- C. mkfile
- D. touch

**Answer:** A

#### NEW QUESTION 100

- (Exam Topic 4)

Which of the following command lines creates or, in case it already exists, overwrites a file called data with the output of ls?

- A. ls 3> data
- B. ls >& data
- C. ls > data
- D. ls >> data

**Answer:** C

#### NEW QUESTION 103

- (Exam Topic 4)

Which of the following commands print the current working directory when using a Bash shell? (Choose two.)

- A. echo "\${PWD}"
- B. echo "\${WD}"
- C. pwd
- D. printwd
- E. echo "\${pwd}"

**Answer:** C

#### NEW QUESTION 107

- (Exam Topic 4)

Which of the following apt-get commands will install the newest versions of all currently installed packages?

- A. auto-update
- B. full-upgrade
- C. dist-upgrade
- D. install
- E. update

**Answer:** C

#### NEW QUESTION 110

- (Exam Topic 4)

Which of the following are modes of the vi editor? (Choose two.)

- A. edit mode
- B. insert mode
- C. change mode
- D. review mode
- E. command mode

**Answer:** BE

#### NEW QUESTION 114

- (Exam Topic 4)

After running the command `umount /mnt`, the following error message is displayed: `umount: /mnt: device is busy`. What is a common reason for this message?

- A. The kernel has not finished flushing disk writes to the mounted device.
- B. A user has a file open in the `/mnt` directory.
- C. Another file system still contains a symlink to a file inside `/mnt`.
- D. The files in `/mnt` have been scanned and added to the locate database.
- E. The kernel thinks that a process is about to open a file in `/mnt` for reading.

**Answer:** B

#### NEW QUESTION 117

- (Exam Topic 4)

Which of the following commands creates an ext3 filesystem on `/dev/sdb1`? (Choose TWO correct answers.)

- A. `/sbin/mke2fs -j /dev/sdb1`
- B. `/sbin/mkfs -t ext3 /dev/sdb1`
- C. `/sbin/mkfs -c ext3 /dev/sdb1`
- D. `/sbin/mke3fs -j /dev/sdb1`

**Answer:** AB

#### NEW QUESTION 118

- (Exam Topic 4)

Which of the following commands can be used to search for the executable file `foo` when it has been placed in a directory not included in `$PATH`?

- A. `apropos`
- B. `which`
- C. `find`
- D. `query`
- E. `whereis`

**Answer:** C

#### NEW QUESTION 120

- (Exam Topic 4)

Which of the following commands will display the inode usage of each mounted filesystem?

- A. `du -i`
- B. `df -i`
- C. `lsfs -i`
- D. `printfs -i`

**Answer:** B

#### NEW QUESTION 123

- (Exam Topic 5)

What is true regarding UEFI firmware? (Choose two.)

- A. It can read and interpret partition tables
- B. It can use and read certain file systems
- C. It stores its entire configuration on the `/boot/` partition
- D. It is stored in a special area within the GPT metadata
- E. It is loaded from a fixed boot disk position

**Answer:** BD

#### NEW QUESTION 126

- (Exam Topic 5)

Which program runs a command in specific intervals and refreshes the display of the program's output? (Specify ONLY the command without any path or parameters.)

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

**Answer:** A

#### Explanation:

`watch`

#### NEW QUESTION 128

- (Exam Topic 5)

Which of the following properties of a Linux system should be changed when a virtual machine is cloned? (Choose two.)

- A. The partitioning scheme
- B. The file system
- C. The D-Bus Machine ID
- D. The permissions of /root/
- E. The SSH host keys

**Answer:** DE

#### NEW QUESTION 133

- (Exam Topic 5)

Which of the following commands lists the dependencies of the RPM package file foo.rpm?

- A. rpm -qpR foo.rpm
- B. rpm -dep foo
- C. rpm -ld foo.rpm
- D. rpm -R foo.rpm
- E. rpm -pD foo

**Answer:** A

#### NEW QUESTION 136

- (Exam Topic 5)

When is the content of the kernel ring buffer reset? (Choose two.)

- A. When the ring buffer is explicitly reset using the command dmesg --clear
- B. When the ring buffer is read using dmesg without any additional parameters
- C. When a configurable amount of time, 15 minutes by default, has passed
- D. When the kernel loads a previously unloaded kernel module
- E. When the system is shut down or rebooted

**Answer:** AE

#### NEW QUESTION 139

- (Exam Topic 5)

Which of the following commands installs GRUB 2 into the master boot record on the third hard disk?

- A. grub2 install /dev/sdc
- B. grub-mkrescue /dev/sdc
- C. grub-mbrinstall /dev/sdc
- D. grub-setup /dev/sdc
- E. grub-install /dev/sdc

**Answer:** E

#### NEW QUESTION 142

- (Exam Topic 5)

When redirecting the output of find to the xargs command, what option to find is useful if the filenames contain spaces?

- A. -rep-space
- B. -prntnul
- C. -nospace
- D. -ignore-space
- E. -print0

**Answer:** E

#### NEW QUESTION 147

- (Exam Topic 5)

Which is the default percentage of reserved space for the root user on new ext4 filesystems?

- A. 10%
- B. 3%
- C. 15%
- D. 0%
- E. 5%

**Answer:** E

#### NEW QUESTION 151

- (Exam Topic 5)

Which of the following files, located in a user's home directory, contains the Bash history?

- A. .bashrc\_history
- B. .bash\_histfile
- C. .history
- D. .bash\_history
- E. .history\_bash

**Answer:** B

#### NEW QUESTION 156

- (Exam Topic 5)

Which of the following commands redirects the output of ls to standard error?

- A. ls >-1
- B. ls <<ERR
- C. ls >&2
- D. ls >>2
- E. ls |error

**Answer:** C

#### NEW QUESTION 158

- (Exam Topic 5) Given the following input stream:

txt1.txt

atxt.txt

txtB.txt

Which of the following regular expressions turns this input stream into the following output stream? txt1.bak.txt

atxt.bak.txt

txtB.bak.txt

- A. s/^txt/.bak/
- B. s/txt/bak.txt/
- C. s/txt\$/bak.txt/
- D. s/^txt\$/bak^/
- E. s/[.txt]/.bak\$1/

**Answer:** B

#### NEW QUESTION 160

- (Exam Topic 5)

Which of the following commands displays the output of the foo command on the screen and also writes it to a file called /tmp/foodata?

- A. foo | less /tmp/foodata
- B. foo | cp /tmp/foodata
- C. foo > /tmp/foodata
- D. foo | tee /tmp/foodata
- E. foo > stdout >> /tmp/foodata

**Answer:** D

#### NEW QUESTION 161

- (Exam Topic 5)

Which wildcards will match the following filenames? (Choose two.) ttyS0

ttyS1 ttyS2

- A. ttyS[1-5]
- B. tty?[0-5]
- C. tty\*2
- D. tty[A-Z][012]
- E. tty[Ss][02]

**Answer:** BD

#### NEW QUESTION 166

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