



# **LPI**

## **Exam Questions 201-450**

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#### NEW QUESTION 1

Which commands below are useful to collect data about remote filesystem connections? (Choose TWO correct answers.)

- A. pidstat
- B. nfsiostat
- C. sadsf
- D. cifsostat

**Answer:** BD

#### NEW QUESTION 2

In the following output, what percentage of time was the CPU waiting for pending I/O?

```
# vmstat 1 100
procs -----memory----- ---swap-- -----io---- --system-- ----cpu----
r b swpd free buff cache si so bi bo in cs us sy id wa
0 0 0 282120 134108 5797012 0 0 0 2 0 0 0 0 100 0
0 0 0 282120 134108 5797012 0 0 0 0 1007 359 0 0 100 0
0 0 0 282120 134108 5797012 0 0 0 0 1117 577 0 0 100 0
0 0 0 282120 134108 5797012 0 0 0 0 1007 366 0 0 100 0
```

- A. 100
- B. 35.9
- C. 57.7
- D. 36.6

**Answer:** A

#### NEW QUESTION 3

When planning a web server which of the following choices will impact system sizing? (Choose THREE correct answers.)

- A. How many concurrent users are expected.
- B. Which hardware vendor has better Linux support.
- C. What type of content will be served.
- D. What scripting languages will the web server support.
- E. Will the OS install be CD, DVD or network based.

**Answer:** ACD

#### NEW QUESTION 4

In the below example output, which columns detail the percent of time the CPU spent running non-kernel code and the percent of time the CPU spent running kernel code? (Choose TWO correct answers.)

```
# vmstat 1 100
procs -----memory----- ---swap-- -----io---- --system-- ----cpu----
r b swpd free buff cache si so bi bo in cs us sy id wa
0 0 0 282120 134108 5797012 0 0 0 2 0 0 0 0 100 0
0 0 0 282120 134108 5797012 0 0 0 0 1007 359 0 0 100 0
0 0 0 282120 134108 5797012 0 0 0 0 1117 577 0 0 100 0
0 0 0 282120 134108 5797012 0 0 0 0 1007 366 0 0 100 0
```

- A. id
- B. us
- C. wa
- D. sy

**Answer:** BD

#### NEW QUESTION 5

What option in the collectd configuration file is required in order to define what to start monitoring?

- A. LoadModule
- B. Module
- C. Plugin
- D. LoadPlugin

**Answer:** D

#### NEW QUESTION 6

In the following output, what is the 5 minute load average for the system?

```
# uptime
12:10:05 up 18 days, 19:00, 2 users, load average: 0.47, 24.71, 35.31
```

- A. 0.47
- B. 24.71
- C. 35.31
- D. There is no 5 minute interval
- E. It is some value between 0.47 and 24.71.

- F. There is no 5 minute interval
- G. It is some value between 24.71 and 35.31.

**Answer:** B

#### NEW QUESTION 7

Which of the following tools are used to measure memory usage? (Choose THREE correct answers.)

- A. mpstat
- B. pstree
- C. sar
- D. top
- E. vmstat

**Answer:** CDE

#### NEW QUESTION 8

How is the source code for the main Linux kernel modules distributed?

- A. It is included with the Linux kernel source code.
- B. The kernel modules are downloaded on demand as they are used during compilation.
- C. The kernel modules have their own release cycle and can be maintained separately from the Linux kernel source.
- D. It is provided as a separate download alongside the Linux kernel source code of the same version.

**Answer:** A

#### NEW QUESTION 9

A database application requires a maximum shared memory segment (shmmax) of 2GB (2147483648 Bytes). Which configuration file should be modified to set this kernel parameter permanently? (Specify the full name of the file, including path.)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

/etc/sysctl.conf

#### NEW QUESTION 10

According to the Filesystem Hierarchy Standard (FHS), what is the path to the Linux kernel source and may be a symbolic link to the real Linux source code? (Please specify the full path with no version information.)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

/usr/src/linux, /usr/src/linux/

#### NEW QUESTION 10

A new kernel version needs to be compiled to use a new feature. If the old kernel configuration file is available, which make target creates a configuration file for the new kernel based on the configuration of the old kernel?

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

oldconfig, make oldconfig

#### NEW QUESTION 12

What is a key difference between a zImage and bzImage kernel image?

- A. zImage is compressed using gzip, bzImage is compressed using bzip2.
- B. zImage is for 2.6 series kernels, bzImage is for 3.x series kernels.
- C. zImage is limited to 64k, bzImage has no such restriction.
- D. zImage gets loaded completely into low memory
- E. bzImage will load into high memory once low memory is full.

**Answer:** D

#### NEW QUESTION 13

After installing a compiled kernel, it can not find any modules that are needed to be loaded. What make target was likely missed while installing the kernel?

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

make modules\_install, modules\_install

**NEW QUESTION 16**

Which of the following terms are used to describe 3.x kernel releases? (Choose TWO correct answers.)

- A. beta
- B. final
- C. longterm
- D. prerelease
- E. stable

**Answer:** CE

**NEW QUESTION 17**

What information does the file modules.dep provide?

- A. A list of all modules, compiled or not, that are available to the kernel.
- B. A list of modules trusted by the installed kernel.
- C. A list of devices and their module name.
- D. A list of all compiled modules and their dependencies.
- E. A list of modules the kernel needs to run.

**Answer:** D

**NEW QUESTION 18**

Which file tells GRUB the paths of the filesystem partitions in both Linux format and in the GRUB syntax? (Specify the file name only with no path information)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

device.map

**NEW QUESTION 22**

Which option to the update-rc.d command will cause the removal of all symlinks to /etc/rcX.d/\*test2 even when the script /etc/init.d/test2 still exists?

- A. -d
- B. -f
- C. -n
- D. -r

**Answer:** B

**NEW QUESTION 27**

A Linux server is running in single user mode for regular maintenance. Which commands are used to restore the server to its usual runlevel? (Choose TWO correct answers.)

- A. telinit 0
- B. shutdown -r now
- C. sync
- D. shutdown -h now
- E. reboot

**Answer:** BE

**NEW QUESTION 31**

In case the file containing the Linux kernel is lost, what happens when the system is booting?

- A. The system starts normally since the bootloader copies the kernel to the master boot record of the hard disk.
- B. Instead of the kernel, the initramfs is loaded and instructed to mount the root filesystem and reinstall the kernel from the original package or from source.
- C. The bootloader mounts the root filesystem read-only and launches /bin/sh directly in order to allow the administrator to reinstall the kernel.
- D. Without a kernel a system cannot boot and, depending on the bootloader, an error is displayed.

**Answer:** D

**NEW QUESTION 34**

Where is the LILO boot loader code typically installed on a system with only a single Linux installation and no other operating systems?

- A. In the master boot record.
- B. In the boot sector.
- C. In the /boot directory.
- D. At the start of the kernel.

**Answer:** A

#### NEW QUESTION 36

Why is the root file system mounted read-only during boot and remounted with write permission later on?

- A. Because if problems with the root file system are detected during the boot, fsck can be run, without risk of damage.
- B. Because this way crackers cannot collect information about root with boot sniffers.
- C. To avoid writing to the disk, unless the root password is known.
- D. To avoid other operating systems overwriting the Linux root partition.
- E. Because the disk has its own write protection that cannot be changed by the operating system.

**Answer:** A

#### NEW QUESTION 40

What are the main network services used by the PXE protocol? (Choose TWO correct answers.)

- A. DNS
- B. DHCP
- C. HTTP
- D. TFTP
- E. NFS

**Answer:** BD

#### NEW QUESTION 43

During booting, when the Linux kernel loads an initramfs file, which command from the initramfs will be executed first, if present?

- A. /init
- B. /initrd
- C. /linuxrc
- D. /rc.local
- E. /sbin/init

**Answer:** A

#### NEW QUESTION 44

What is the functionality that PXE provides?

- A. The ability to boot a computer using its network interface.
- B. The ability to launch an remote X11 desktop on a computer.
- C. The ability to verify a system's configuration after completing the boot process.
- D. The ability to verify a system's configuration before completing the boot process.

**Answer:** A

#### NEW QUESTION 46

The main configuration file for autofs has this entry:

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

/home /etc/auto.home

#### NEW QUESTION 48

How can the label root be added to the ext2 filesystem on /dev/sda1?

- A. relabel /dev/sda1 root
- B. tune2fs -L root /dev/sda1
- C. echo 'root' > /proc/fs/sda1/label
- D. labelfs --device /dev/sda1 root

**Answer:** B

#### NEW QUESTION 49

Which of the following are common Linux filesystem types used for root partitions? (Choose THREE correct answers.)

- A. ext4

- B. VFAT
- C. NTFS
- D. XFS
- E. Btrfs

**Answer:** ADE

#### NEW QUESTION 53

Which of the following best describes the format of the /etc/fstab file?

- A. device name; filesystem type; mount point; mount options; dump filesystem; fsck order
- B. device name; mount point; filesystem type; mount options; dump filesystem; fsck order
- C. device name; mount point; mount options; filesystem type; dump filesystem; fsck order
- D. mount point; filesystem type; device name; mount options; dump filesystem; fsck order
- E. mount point; device name; filesystem type; mount options; dump filesystem; fsck order

**Answer:** B

#### NEW QUESTION 57

What does a 0 in the last field (fsck order) of /etc/fstab indicate about the filesystem?

- A. The filesystem should be checked before filesystems with higher values.
- B. The filesystem should be checked after filesystems with higher values.
- C. The filesystem check counter is ignored.
- D. The filesystem has been disabled from being checked and mounted on the system.
- E. The filesystem does not require an fsck check when being mounted.

**Answer:** E

#### NEW QUESTION 59

Consider the following /etc/fstab file:

```
/dev/hda1 swap swap defaults 0 0
/dev/hda2 / ext2 defaults 1 1
/dev/hda3 /home ext2 defaults 1 2
none /proc proc defaults 0 0
/dev/sdb1 /media/usb0 vfat user,noauto 0 0
```

What is one of the possible commands that an ordinary (non-root) user can use to mount the /dev/sdb1 partition on the /media/usb0 mount point? (Please enter the command with all parameters and/or options but without any file system type options.)

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

mount /dev/sdb1, mount /media/usb0, /bin/mount /dev/sdb1, /bin/mount /media/usb0, mount /media/usb0/, /bin/mount /media/usb0/

#### NEW QUESTION 64

Where would fsck put any unreferenced file or file fragments on a ext4 filesystem?

- A. recover
- B. lost+found
- C. back
- D. lost

**Answer:** B

#### NEW QUESTION 66

Which file in /proc contains information on the status of local software RAID devices?

- A. /proc/raidstat
- B. /proc/mdstat
- C. /proc/raidstatus
- D. /proc/mdstatus
- E. /proc/raid/status

**Answer:** B

#### NEW QUESTION 71

Which directory in /dev/disk/ can be used to determine the UUID of a connected hard disk?

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

/dev/disk/by-uuid, by-uuid, /dev/disk/by-uuid/

**NEW QUESTION 76**

A system has one hard disk and one CD writer which are both connected to SATA controllers. Which device represents the CD writer?

- A. /dev/hdb
- B. /dev/sdd
- C. /dev/scd1
- D. /dev/sr0
- E. /dev/sr1

**Answer:** D

**NEW QUESTION 79**

What mount option must be used in /etc/fstab when mounting an iSCSI target?

- A. \_\_santarget
- B. iscsi
- C. waitiscsi
- D. \_\_netdev

**Answer:** D

**NEW QUESTION 84**

What keyword is missing in the following line from /etc/fstab in order to make a USB flash device writeable by the user fred when mounted:

/dev/sda1 /mnt/usbflash vfat defaults,users, \_\_\_\_\_ =fred,umask=022, 0 0

(Provide the option name only without any settings)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

uid

**NEW QUESTION 87**

What is the purpose of the command vgextend?

- A. Extend a volume group's footprint on disk.
- B. Add physical volumes to an existing volume group.
- C. Increase the number of days between scheduled error checking.
- D. Create a volume group which uses all available space on disk.

**Answer:** B

**NEW QUESTION 88**

Which of the following best describes the format of the /etc/fstab file?

- A. device name; filesystem type; mount point; mount options; dump filesystem; fsck order
- B. device name; mount point; filesystem type; mount options; dump filesystem; fsck order
- C. device name; mount point; mount options; filesystem type; dump filesystem; fsck order
- D. mount point; filesystem type; device name; mount options; dump filesystem; fsck order
- E. mount point; device name; filesystem type; mount options; dump filesystem; fsck order

**Answer:** B

**NEW QUESTION 93**

Which of the following is an example path to a Linux software RAID array?

- A. /dev/raid0
- B. /dev/rd1
- C. /dev/pr0
- D. /dev/md1

**Answer:** D

**NEW QUESTION 95**

What component of a system does smartd monitor?

- A. CPU
- B. RAM
- C. Hard drives
- D. Ethernet traffic



**Answer:** C

#### NEW QUESTION 100

What command will remove a physical volume from a volume group? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

vgreduce, /sbin/vgreduce

#### NEW QUESTION 105

What command is used to make an exact copy, at a single point in time, of a logical volume for backup purposes?

- A. lvsnap
- B. lvsnapshot
- C. lvcreate
- D. lvcopy
- E. lvclone

**Answer:** C

#### NEW QUESTION 110

What action should be performed after increasing the size of a logical volume?

- A. Run vgresize.
- B. Increase the size of the filesystem used for the logical volume.
- C. Run lvresize.
- D. Remount the logical volume.

**Answer:** B

#### NEW QUESTION 111

What are the options to node.startup in the iscsid.conf file? (Choose TWO correct answers.)

- A. login
- B. initiate
- C. manual
- D. discover
- E. automatic

**Answer:** CE

#### NEW QUESTION 114

What should be done after updating the configuration file for syslogd in order to make the changes become effective? (Choose TWO correct answers.)

- A. No action is required, syslogd will notice the updated configuration file after a few minutes.
- B. Send the HUP signal to the syslogd process.
- C. Restart the syslogd service.
- D. Run the command syslogd -u.

**Answer:** BC

#### NEW QUESTION 116

A correctly formatted entry has been added to /etc/hosts.deny to prevent certain clients from connecting to a service but this is having no effect. What could be the cause of this? (Choose TWO correct answers.)

- A. tcpd needs to be sent the HUP signal.
- B. The service needs to be restarted.
- C. The machine needs to be restarted.
- D. There is a conflicting entry in /etc/hosts.allow.
- E. The service does not support tcpwrapper.

**Answer:** DE

#### NEW QUESTION 120

A network client has an ethernet interface (eth0) configured with an IP address in the subnet 192.168.0.0/24. This subnet has a router, with the IP address 192.168.0.1, that connects this subnet to the Internet. What needs to be done on the client to enable it to use the router as its default gateway? (Choose TWO correct answers.)

- A. route add default gw 192.168.0.1 eth0
- B. ifconfig eth0 defaultroute 192.168.0.1
- C. ip route add default via 192.168.0.1 dev eth0

D. echo defaultroute 192.168.0.1 >> /etc/resolv.conf  
E. route add defaultgw=192.168.0.1 if=eth0

**Answer:** AC

#### NEW QUESTION 122

Running tcpdump -nli eth1 'tcp' shows the following output:

14:41:53.694538 IP 10.1.52.145.51738 > 24.215.7.162.143: Flags [.), ack 33051, win 1002, options [nop,nop,TS val 36789130 ecr 1746004159], length 0

What is the source IP address of this packet? (Please specify the answer in digits and dots ONLY.)

A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

10.1.52.145

#### NEW QUESTION 125

According to the tcpdump output below, what is the IP address of the client host?

02:12:40.511381 IP 192.168.246.11.1045 > 192.168.246.1.22: S 3838532429:3838532429(0) win 5840 <mss 1460,sackOK,timestamp 31325740,nop,wscale 2>

02:12:40.511540 IP 192.168.246.1.22 > 192.168.246.11.1045: S 1209330085:1209330085(0) ack 3838532430 win 5792 <mss 1460,sackOK,timestamp 11553457 3132574,nop,wscale 0>

02:12:40.511755 IP 192.168.246.11.1045 > 192.168.246.1.22: . ack 1 win 1460 <nop,nop,timestamp 3 132574 11553457>

02:12:40.515122 IP 192.168.246.1.22 > 192.168.246.11.1045: P 1:26(25) ack 1 win 5792 <nop,nop,timestamp 11553460 3132574>

02:12:40.515511 IP 192.168.246.11.1045 > 192.168.246.1.22: . ack 26 win 1460 <nop,nop,timestamp 3132578 11553460>

02:12:40.515952 IP 192.168.246.11.1045 > 192.168.246.1.22: P 1:23(22) ack 26 win 1460 <nop,nop,timestamp 3132578 11553460>

A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

192.168.246.11

#### NEW QUESTION 129

What is the command to add another IP address (192.168.1.2) to a network interface (eth0) that already has (at least) one IP address in the 192.168.1.0/24 subnet?

A. ip add addr 192.168.1.2/32 dev eth0  
B. ifconfig eth0 192.168.1.2 netmask 255.255.255.255  
C. ip addr add 192.168.1.2/32 dev eth0  
D. ipconfig eth0 192.168.1.2

**Answer:** C

#### NEW QUESTION 133

Which of the following are common backup systems used in Linux? (Choose TWO correct answers.)

A. Amanda  
B. Bacula  
C. DrBackup  
D. BREWBackup  
E. SARcheck

**Answer:** AB

#### NEW QUESTION 138

What does the -p3 option to the patch command do?

A. It will strip off path information from each file mentioned in the patch file up to and including the third / character.  
B. patch continues execution as long as there are three or fewer errors.  
C. It instructs patch to look up to three lines of context before or after the declared line in the original file for a match.  
D. patch will keep three previous versions of each file in the output to prevent loss of change history.  
E. It instructs patch to conform more strictly to the POSIX standard.

**Answer:** A

#### NEW QUESTION 139

What is the device name for the first SCSI tape drive on a system when used without automatic rewinding after each write operation? (Please specify the full path to the device.)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**  
/dev/nst0

#### NEW QUESTION 141

Which of the following files will be looked for and used by GNU make, if one of them exists, unless a different file is specified on the command line when trying to compile software from source code? (Choose TWO correct answers.)

- A. configure
- B. config.h.in
- C. makefile
- D. Makefile
- E. Makefile.in

**Answer:** CD

#### NEW QUESTION 142

Which file contains the message that is displayed above the login prompt of the system console? (Specify the full name of the file, including path.)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**  
/etc/issue

#### NEW QUESTION 147

What command discards unused blocks on a mounted file system in order to support SSD devices? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**  
fstrim

#### NEW QUESTION 150

Which of the following commands erases the contents of the /dev/sdb3 partition?

- A. rm /dev/sdb3
- B. dd if=/dev/zero of=/dev/sdb3
- C. dd of=/dev/zero if=/dev/sdb3
- D. umount /dev/sdb3

**Answer:** B

#### NEW QUESTION 151

Which of the following commands lists IPv4 addresses and MAC addresses of network nodes that the local system has seen on its directly connected IP networks?

- A. arp
- B. ifconfig
- C. ipadm
- D. iwlist

**Answer:** A

#### NEW QUESTION 152

Which of the following is a userspace application used to modify EFI entries on a Linux system?

- A. efieditor
- B. configefi
- C. efimanager
- D. efibootmgr
- E. efibootedit

**Answer:** D

#### NEW QUESTION 156

What command ensures that the file systems are written to disk after a lot of write operations? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

sync

#### NEW QUESTION 157

What command is used to send messages to all users currently logged in? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

wall

#### NEW QUESTION 160

In the output of sar -b, what does tps stand for?

- A. Terrabyte per second
- B. Traffic per second
- C. Transfers per second
- D. Total data per second
- E. Terrabit per second

**Answer:** C

#### NEW QUESTION 163

Which of the filter keywords below could be used in the following command:

tcpdump -i eth0 \_\_\_\_\_ 203.0.113.8 (Choose three.)

- A. host
- B. ip
- C. src
- D. dst
- E. ipv6

**Answer:** ACD

#### NEW QUESTION 166

Which of the following init systems comes along with an own UEFI boot loader?

- A. systemd
- B. SysVinit
- C. Upstart
- D. OpenRC
- E. launchd

**Answer:** A

#### NEW QUESTION 168

Which of the following commands restores only those files containing lpi in their name from the archive lpifiles.tar.gz?

- A. tar xvfz lpifiles.tar.gz --wildcards '\*lpi\*'
- B. tar xvzwf lpifiles.tar.gz '\*lpi\*'
- C. tar -xvfz lpifiles.tar.gz --deep '\*lpi\*'
- D. tar -xvfz lpifiles.tar.gz --subdirs '\*lpi\*'
- E. tar xvzf lpifiles.tar.gz --globbing '\*lpi\*'

**Answer:** A

#### NEW QUESTION 172

Which command is used to install a GRUB boot loader into the master boot record?

- A. grub-install
- B. grub-mkconfig
- C. grub-install-mbr
- D. grub-glue-mbr
- E. grub-mbr-setup

Answer: A

NEW QUESTION 173

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