

# LPI

## Exam Questions 201-450

LPIC-2 Exam 201 Part 1 of 2 version 4.5



**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. cifsstat

**Answer:** BD

**NEW QUESTION 2**

Which of the following commands will provide the PIDs of the processes sorted by which are using the most CPU cycles on the Linux system?

- A. top
- B. uptime
- C. ps aux
- D. vmstat
- E. freemem

**Answer:** A

**NEW QUESTION 3**

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 4**

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 5**

Which directory contains the system-specific udev rule files? (Specify the absolute path including the directory name)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

/etc/udev/rules.d, /etc/udev/rules.d/

**NEW QUESTION 6**

How can the kernel parameter for the maximum size of the shared memory segment (shmmax) be changed to 2GB (2147483648 Bytes) on a running system? (Choose TWO correct answers.)

- A. Edit /etc/shmmax and set the parameter to 2147483648.
- B. sysctl shmmax=2147483648
- C. sysctl kernel.shmmax=2147483648
- D. echo 2147483648 > /proc/sys/kernel/shmmax
- E. export kernel.shmmax=2147483648

**Answer:** CD

#### NEW QUESTION 7

What happens if the Linux kernel can't mount the root filesystem when booting?

- A. An error message is shown and the administrator is asked by the kernel to specify a valid root filesystem to continue the boot process.
- B. An error message is shown and the system reboots after a keypress.
- C. An error message is shown and the system boots in maintenance mode.
- D. An error message is shown showing which device couldn't be mounted or informing that init couldn't be found.
- E. An error message is shown stating that the corresponding kernel module couldn't be loaded.

**Answer:** D

#### NEW QUESTION 8

What is the meaning of the /etc/auto.home file?

- A. It has the indirect maps for the mounting of file systems.
- B. It has configuration information, such as passwords and keys, for the remote file server.
- C. It has configuration information on settings for the /home mount point.
- D. It is the holds the SSL key to allow authentication to the remote file server.

**Answer:** D

#### Explanation:

54. What is the purpose of the smartd daemon?

- A. It is a user space daemon used for reading smart cards and integrated circuit chips.
- B. It attempts to automatically repair file systems upon a failed file system check.
- C. It monitors process activity and helps the kernel decide which processes to kill when the kernel overcommits.
- D. It monitors certain disk drives and attempts to predict when they will fail.

#### NEW QUESTION 9

Which files are updated as devices are mounted and unmounted to provide information on the currently mounted devices and the options used? (Choose TWO correct answers.)

- A. /proc/dtab
- B. /etc/mtab
- C. /etc/fstab
- D. /proc/mounts
- E. /proc/devices

**Answer:** BD

#### NEW QUESTION 10

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 10

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 11

The main configuration file for autofs has this entry:

/home /etc/auto.home

What is the meaning of the /etc/auto.home file?

- A. It has the indirect maps for the mounting of file systems.
- B. It has configuration information, such as passwords and keys, for the remote file server.
- C. It has configuration information on settings for the /home mount point.
- D. It is the holds the SSL key to allow authentication to the remote file server.

**Answer:** A

#### NEW QUESTION 16

What is the minimum number of disks required in a fully redundant RAID5 array?

- A. 1
- B. 2
- C. 3
- D. 4
- E. 5

**Answer:** C

#### NEW QUESTION 18

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 23

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 28

Which two LVM commands are missing from the following sequence which is used to create a logical volume and make use of it on a Linux system?

`pvcreate, _____, _____, mkfs, mount`

- A. `lvcreate, mdadm`
- B. `lvcreate, vgcreate`
- C. `lvcreate, vgcreate`
- D. `vgcreate, lvcreate`
- E. `vgcreate, mdadm`

**Answer:** D

#### NEW QUESTION 29

The IDE hard drive `/dev/hda` does not have DMA enabled. Which command must be run to enable DMA on it?

- A. `hdparm -d /dev/hda`
- B. `hdparm --dma /dev/hda`
- C. `hdparm --dma /dev/hda1`
- D. `hdparm -d /dev/hda1`
- E. `hdparm -d 1 /dev/hda`

**Answer:** E

#### NEW QUESTION 34

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 39

Under which of the following circumstances would the command `ping` output the string (DUP!)?

- A. When the ICMP packets are sent to a broadcast address and multiple hosts respond.
- B. When the host being sent ICMP packets is on a different network.
- C. When the router responds to the ICMP packet in addition to the host receiving the ICMP packets.
- D. When the host sending the ICMP packet is the same host as the one receiving the ICMP packets.

**Answer:** A

#### NEW QUESTION 40

Which program lists information about files and network connections opened by processes? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Isof, /usr/bin/Isof

**NEW QUESTION 44**

Which of the following filter keywords for tcpdump specify the transfer direction for network packets? (Choose TWO correct answers.)

- A. source
- B. src
- C. dest
- D. src or dst
- E. both

**Answer:** BD

**NEW QUESTION 46**

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 50**

Which command can be used to scan a specified network looking for IP addresses that appear to be in use?

- A. nmap
- B. tcpdump
- C. ip
- D. netscan
- E. hostdiscover

**Answer:** A

**NEW QUESTION 51**

What is incorrect about these entries in /etc/hosts which could be causing host name lookup problems with host2?

host1 192.168.1.12  
host2 192.168.1.12

- A. Two host names are using the same IP address.
- B. The server doing the query is on a different subnet.
- C. The fields are out of order.
- D. host2 is not a fully qualified domain name.

**Answer:** C

**NEW QUESTION 56**

Which of the following files are used to resolve hostnames to IP addresses? (Choose TWO correct answers.)

- A. /etc/systems
- B. /etc/hosts
- C. /etc/network
- D. /etc/dns.conf
- E. /etc/resolv.conf

**Answer:** BE

**NEW QUESTION 57**

Which one of these directories should not be backed up?

- A. /backup
- B. /etc
- C. /opt
- D. /proc
- E. /var/log

**Answer:** D

#### NEW QUESTION 61

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 64

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 69

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 72

Which of the following commands creates a Btrfs subvolume named volume in/mnt?

- A. btrfs subvolume add -n volume /mnt
- B. btrfs create subvolume /mnt volume
- C. btrfs-subvolume create /mnt/volume
- D. btrfs subvolume new volume /mnt
- E. btrfs subvolume create /mnt/volume

**Answer:** E

#### NEW QUESTION 74

On a Linux node with multiple active networks interfaces, each having a default route to the Internet, which default route is preferred?

- A. The default route with the highest metric value
- B. The default route with the highest MTU value
- C. The default route with the lowest TTL value
- D. The default route with the highest TTL value
- E. The default route with the lowest metric value

**Answer:** E

#### NEW QUESTION 76

Which of the following commands shows capabilities and usable frequencies for the wireless interface wlan0?

- A. iw phy phy0 info
- B. iw dev wlan0 info
- C. iw dev wlan0 show
- D. iw phy wlan0 show
- E. iw phy0 show

**Answer:** A

#### NEW QUESTION 77

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 78**

In order to gather performance data with sar over a longer period of time, which command should be run periodically from cron?

- A. sa1
- B. sarmon
- C. sarec
- D. sadf
- E. sarcron

**Answer:** A

**NEW QUESTION 80**

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

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

**Answer:** A

**NEW QUESTION 85**

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 86**

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