

# LPI

## Exam Questions 201-450

LPIC-2 Exam 201 Part 1 of 2 version 4.5



**NEW QUESTION 1**

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 2**

In this example output, which descriptions match the purpose of the free, buff and cache columns? (Choose THREE 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. Used swap space
- B. RAM available for filesystem buffers
- C. Available free RAM
- D. RAM used for buffers
- E. RAM used for filesystem cache

**Answer: CDE**

**NEW QUESTION 3**

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 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**

In capacity planning exercises, which tools assist in listing and identifying processes of interest? (Choose TWO correct answers.)

- A. acpid
- B. lsof
- C. pstree
- D. telinit

**Answer: BC**

**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

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 8

On a server running the 3.4.50-11 Linux kernel, which file in the /boot directory contains the kernel configuration parameters?

- A. config-linux-3.4.50-11
- B. config-3.4.50-11
- C. system-3.4.50-11
- D. vmlinuz-3.4.50-11
- E. rc.config-3.4.50-11

**Answer: B**

#### NEW QUESTION 9

What is the purpose of the command udevadm monitor?

- A. It listens to kernel events produced by a udev rule and print information to the console.
- B. It monitors the /dev directory for new devices.
- C. It monitors the udev process and prints performance statistics to the console.
- D. It communicates with D-Bus to setup new devices.

**Answer: A**

#### NEW QUESTION 10

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 10

After configuring a new kernel, what file under /usr/src/linux/ contains the configuration?

- A. Mastered
- B. Not Mastered

**Answer: A**

#### Explanation:

/usr/src/linux/.config, .config

#### NEW QUESTION 11

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 16

What is the full path to the directory which contains the scripts (or links to the original scripts) to run while the system boots to SysV-init runlevel 2?

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

/etc/rc2.d, /etc/rc2.d/, /etc/init.d/rc2.d, /etc/init.d/rc2.d/

#### NEW QUESTION 19

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 20

The main configuration file for autofs has this entry:

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

/home /etc/auto.home

#### NEW QUESTION 23

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 27

Due to extreme system use, a Linux system requires some additional swap space. To initialize 5GB of additional swap space, which combination of commands should be used?

- A. dd if=/dev/zero of=/tmp/swapfile bs=1024 count=5120000; mkswap /tmp/swapfile; mount /tmp/swapfile
- B. dd if=/dev/zero of=/tmp/swapfile bs=1024 count=5120000; swapon /tmp/swapfile
- C. dd if=/dev/zero of=/tmp/swapfile bs=1024 count=5120000; mkswap /tmp/swapfile; swapon /tmp/swapfile
- D. touch -5G /tmp/swapfile; swapon /tmp/swapfile
- E. mkswap /tmp/swapfile 512000; swapon /tmp/swapfile

**Answer:** C

#### NEW QUESTION 28

Which of the following is a CD-ROM filesystem standard?

- A. OSI9660
- B. ISO9660
- C. SR0FS
- D. ISO8859
- E. ROM-EO

**Answer:** B

#### NEW QUESTION 31

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

- A. \_santarget
- B. iscsi

- C. waitisci
- D. \_netdev

**Answer:** D

#### NEW QUESTION 35

How can the label root be added to the ext4 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 39

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 40

Which single command will simulate a failed device within a RAID 5 array?

- A. mdadm --remove /dev/md0 /dev/sdd1
- B. mdadm --zero-superblock /dev/sdf3
- C. mdadm --force-fault /dev/md2 /dev/sde2
- D. mdadm --fail /dev/md0 /dev/sdc1
- E. mdadm /dev/md0 --offline /dev/sdc1

**Answer:** D

#### NEW QUESTION 41

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. lvmcreate, vgcreate
- D. vgcreate, lvcreate
- E. vgcreate, mdadm

**Answer:** D

#### NEW QUESTION 44

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 46

The following is an excerpt from the output of tcpdump -nli eth1:

13:03:17.277327 IP 192.168.123.5.1065 > 192.168.5.112.21: Flags [.] , ack 1 (truncated)

13:03:17.598624 IP 192.168.5.112.21 > 192.168.123.5.1065: Flags [P.] , seq (truncated)

Which network service or protocol was used?

- A. FTP
- B. HTTP
- C. SSH
- D. DNS
- E. DHCP

**Answer:** A

#### NEW QUESTION 51

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 55**

Which of the following wireless tools can be used to check the wireless network link quality? (Choose TWO correct answers.)

- A. iwconfig
- B. iwlink
- C. iwscan
- D. iwifi
- E. iw

**Answer:** AE

**NEW QUESTION 56**

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 58**

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 63**

Which of the following commands will erase 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 66**

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 68

When a makefile is included in a source code package, what are commonly defined targets in the file?

- A. CFLAGS, CPPFLAGS, LIBS, LDFLAGS
- B. clean, install, uninstall
- C. PATHS, DESTDIR, LIBS, LDFLAGS
- D. prefix, exec\_prefix, bindir, mandir

**Answer:** B

#### NEW QUESTION 72

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 73

Which sub command to cryptsetup shows information about an encrypted LUKS partition?

- A. luksDump
- B. luksInfo
- C. luksDebug
- D. luksLS
- E. luksShow

**Answer:** A

#### NEW QUESTION 74

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 76

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 77

What effect does the -f option to the update-rc.d command have on files in the /etc/rcX.d/ and /etc/init.d/ directories?

- A. It will force the removal of the symlinks in /etc/rcX.d/ even when the links are read only
- B. It will remove both the symlinks in /etc/rcX.d/ and the init script in /etc/init.d/
- C. It will remove the init script in /etc/init.d/ and the symlinks in /etc/rcX.d/ and update the package information of installed files
- D. It will force the removal of symlinks in /etc/rcX.d/ even if the corresponding init script still exists in /etc/init.d/

**Answer:** D

#### NEW QUESTION 78

After manually compiling and installing a new kernel, what has to be done regarding the initramfs?

- A. To initramfs is independent of the kernel and should not be modified unless the hardware configuration of the machine has changed
- B. Since the initramfs contains kernel modules, a new initramfs must be built for the new kernel
- C. During the compilation of the Linux kernel, a new initramfs is built automaticall
- D. The new initramfs only needs to be installed
- E. The system should be restarted since the initramfs reconfigures itself for the new kernel during the startup of the system

**Answer:** C

#### NEW QUESTION 80

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 81

Which of the following commands adds a static IPv6 address to the network interface eth0?

- A. ip addr add 2001:db8::1337/64 dev eth0
- B. ip -6 add addr 2001:db8::1337/64 dev eth0
- C. ip addr add 2001:db8::1337/64 dev eth0
- D. ip -6 addr add new 2001:db8::1337/64 dev eth0
- E. ip addr add -6 2001:db8::1337/64 dev eth0

**Answer:** D

#### NEW QUESTION 83

A Linux server running systemd booted to rescue.target for maintenance. Which commands are used to restore the server to its usual target? (Choose two.)

- A. telinit 0
- B. systemctl default
- C. sync
- D. systemctl emergency
- E. systemctl reboot

**Answer:** AB

#### NEW QUESTION 84

Which is the main configuration file for the SystemV init process? (Specify the full name of the file, including path.)

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

/etc/inittab

#### NEW QUESTION 87

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 91

What is the purpose of an initramfs during the Linux system start?

- A. It loads required modules and starts sub systems like LVM to make the root file system accessible to the kernel
- B. It moves the kernel from normal system memory to initram memory to speed up kernel access
- C. It copies the root file system's content to RAM to speed up the system and reduce writes to disk
- D. It creates a ram disk to store volatile data for directories like /tmp to reduce writes to disk

**Answer:** A

#### NEW QUESTION 96

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