

## Exam Questions 201-450

LPIC-2 Exam 201 Part 1 of 2 version 4.5

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**NEW QUESTION 1**

When is historical data of resource usage important? (Select THREE correct answers.)

- A. Predicting when resources will need to be increased.
- B. Selecting a computer vendor.
- C. Identifying processes killed during out of memory occurrences.
- D. Diagnosing capacity problems.
- E. Troubleshooting a software problem.

**Answer:** ADE

**NEW QUESTION 2**

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

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

**Answer:** BD

**NEW QUESTION 3**

Which command will report information on memory usage, paging and block input/output?

- A. free
- B. memshow
- C. ps
- D. top
- E. vmstat

**Answer:** E

**NEW QUESTION 4**

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 5**

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 6**

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 7

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 8

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 9

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 10

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 10

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 12

Which command turns an existing ext2 filesystem non-destructively into an ext3 filesystem? (Specify ONLY the command without any path or parameters.)

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

Answer: A

#### Explanation:

`/sbin/tune2fs, tune2fs`

#### NEW QUESTION 13

After a lot of write operations, the administrator want to ensure that the kernel flushes the file system buffers to disk. Which command will accomplish this? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**  
sync

#### NEW QUESTION 18

What component of a system does smartd monitor?

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

**Answer:** C

#### NEW QUESTION 23

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 28

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 33

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 34

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 39

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

- A. When the ICMP packets are send 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 42

Considering the following kernel IP routing table below, which of the following commands must be used to remove the route to the network 10.10.1.0/24? (Select TWO answers)

Kernel IP routing table

Destination Gateway Genmask Flags Metric Ref Use Iface

203.0.113.162 0.0.0.0 255.255.255.255 UH 0 0 0 ppp0

172.16.87.0 0.0.0.0 255.255.255.0 U 0 0 0 eth0

192.168.246.0 0.0.0.0 255.255.255.0 U 0 0 0 eth1

10.10.1.0 192.168.246.11 255.255.255.0 UG 0 0 0 eth1

127.0.0.0 0.0.0.0 255.0.0.0 U 0 0 0 lo

0.0.0.0 203.0.113.162 0.0.0.0 UG 0 0 0 ppp0

- A. ip net delete 10.10.1.0/24
- B. route del 10.10.1.0/24
- C. route del -net 10.10.1.0/24
- D. route del 10.10.1.0/24 gw 192.168.246.11
- E. ip route delete 10.10.1.0/24

**Answer:** CE

#### NEW QUESTION 43

Which of the following commands will list the IPv4 neighbors of the current system? This includes IP and MAC addresses. (Choose TWO correct answers.)

- A. arp
- B. ifconfig -lv eth0
- C. netstat -al
- D. ip neigh show

**Answer:** AD

#### NEW QUESTION 48

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 49

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 54

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 57

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 58

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 60

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 65

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 68

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 72

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 77

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 82

A web application server contains 64GB of RAM and two swap partitions on normal hard disk drives, each with a size of 64 GB. Within the last month, the average number of user sessions on this server has grown by 20 percent. At the same time, the average usage of RAM increased from 65 to 75 percent, while the swap space is almost not used at all. It is expected that the number of user sessions will continue to increase by about 15 to 20 percent each month. Which of the following reactions would be appropriate in response to these observations? (Choose two.)

- A. Delay any hardware upgrade until there is a significant consumption of swap space to ensure an efficient usage of the available hardware
- B. Create a RAID 1 device on the two swap partitions to avoid data loss in case swap space has to be used in the future
- C. Consider the installation of an additional application server to distribute the load if the expected growth continues over several months
- D. Move the web application's scripts and content a ram disk in order to ensure fast access and to avoid the need for swap space
- E. Update the hardware to increase the amount of available RAM to avoid using swap space

**Answer:** CE

#### NEW QUESTION 86

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 88

In which directory tree are files modified when changing kernel parameters using the command sysctl?

- A. /sys/kernel/
- B. /proc/kernel/
- C. /proc/sys/
- D. /lib/sys/
- E. /sys/proc/

**Answer:** C

#### NEW QUESTION 89

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