



**LPI**

## **Exam Questions 201-450**

LPIC-2 Exam 201 Part 1 of 2 version 4.5

#### 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

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

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 5

Which command is used to unload a single module currently loaded by the kernel without unloading any modules that it depends upon? (Specify the command with or without path information)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

rmmod, /sbin/rmmod

#### NEW QUESTION 6

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 7

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 memor
- E. bzImage will load into high memory once low memory is full.

**Answer:** D

#### NEW QUESTION 8

Which command is used to install a new LILO boot loader?

- A. lilo
- B. lilo-config
- C. lilo-install
- D. install-lilo

**Answer:** A

#### NEW QUESTION 9

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 10

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 10

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 11

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 15

What is the main template file used by autofs?

- A. default.maps
- B. auto.conf
- C. auto.master
- D. autofs.master

**Answer:** C

#### NEW QUESTION 19

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 21

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 25

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 28

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 30

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 33

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 34

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 38

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 42

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 46

Which of the following commands is used to set up a RAID volume?

- A. makerd
- B. mdadm
- C. mkfs.raid
- D. makeraid
- E. rdconfig

**Answer:** B

#### NEW QUESTION 48

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 49

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 52

Which of the following commands can be used to list IPv4 addresses and MAC addresses for IP devices that the system has seen on the local network?

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

**Answer:** A

#### NEW QUESTION 54

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 383853
```

```
2430 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 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 57

The following command has just been run successfully: `cd /opt; tar xvf /dev/nst0;`  
What will happen if the command sequence is run again?

- A. An error saying that there is no tape present is generated because the tape has been ejected after being used.
- B. The contents of /opt will be restored again.
- C. The entire contents of /opt will be replaced with the contents of the next file on the tape.
- D. The contents of /opt will have additional content added from the next file on the tape.

**Answer:** D

#### NEW QUESTION 58

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 62

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 63

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 65

Which of the following commands displays the physical path of the kernel module named dummy?

- A. modprobe -i dummy
- B. modinfo -n dummy
- C. modpath -v dummy
- D. depmod -n dummy
- E. modshow -p dummy

**Answer:** A

#### NEW QUESTION 70

What is the purpose of a system mount unit?

- A. It is used by the command systemd-mount and allows users to mount partitions to mount points of their choice
- B. It is used only to mount network file systems to local mount point
- C. It cannot be used for local media
- D. It is created by the command systemd-fstab-generator to integrate entries from /etc/fstab into the system boot process
- E. It is used by the command mount when using system to mount and unmount file systems

**Answer:** A

#### NEW QUESTION 73

Which command is used to make an exact copy, at a single point in time, of a logical volume while still allowing the original logical volume to be updated?

- A. lvccclone
- B. lvcreate
- C. lvm2
- D. lvsnap
- E. lvsnapshot

**Answer:** B

#### NEW QUESTION 74

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

- A. ip add addr 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 78

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 79

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 -xvfz 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 80

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 82

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