

# 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 of the following is a side effect of extensive usage of swap space?

- A. The root filesystem may become full because swap space is always located on the system root partition.
- B. The overall system performance may degrade because of heavy hard disk use and memory reorganization.
- C. Since processes always exist completely in either RAM or swap, regular RAM may become unused if the kernel does not move processes back from the swap space to memory.
- D. The memory may become fragmented and slow down the access to memory page
- E. However, this can be kept to a minimum by the regular use of memfrag -d.
- F. Applications need to restart because their virtual memory addresses change to reflect memory relocation to the swap address area.

**Answer:** B

#### NEW QUESTION 3

What mechanism does collectd use to gather monitoring information on systems?

- A. It uses a library of plugins.
- B. A master server connects to a collectd service on each machine to retrieve the information.
- C. It collects its own information on each server and sends that to a master server.
- D. It makes SNMP queries to the clients being monitored.

**Answer:** A

#### 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 commands are used to load modules into the Linux kernel? (Choose TWO correct answers.)

- A. insmod
- B. loadmod
- C. kernload
- D. modprobe
- E. probemod

**Answer:** AD

#### NEW QUESTION 6

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 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**

What is the correct parameter to pass to the kernel at boot time to force it to use only one of the available processors?

- A. maxcpus=1
- B. usecpus=1
- C. smpcpus=1
- D. vcpumx=1

**Answer:** A

**NEW QUESTION 9**

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 10**

Please enter the complete path to the main SysV init process configuration file.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

/etc/inittab

**NEW QUESTION 10**

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 11**

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 13**

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 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 17

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 20

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

- A. OS/9660
- B. ISO9660
- C. SR0FS
- D. ISO8859
- E. ROM-EO

**Answer:** B

#### NEW QUESTION 24

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 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

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 36

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 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 43

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 44

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 47

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 52

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 54

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 56

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 58

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 63

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 66

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 69

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 71

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 73

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 76

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