



**LPI**

## **Exam Questions 201-450**

LPIC-2 Exam 201 Part 1 of 2 version 4.5

#### NEW QUESTION 1

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 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

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 5

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 6

When planning a web server which of the following choices will impact system sizing? (Choose THREE correct answers.)

- A. How many concurrent users are expected.
- B. Which hardware vendor has better Linux support.
- C. What type of content will be served.
- D. What scripting languages will the web server support.
- E. Will the OS install be CD, DVD or network based.

**Answer: ACD**

#### NEW QUESTION 7

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 8

In the following output, the load averages represent the system load averages for what time frames? 12:10:05 up 18 days, 19:00, 2 users, load average: 0.47, 24.71, 35.31

- A. 1, 5 and 15 minutes
- B. 1, 15 and 30 minutes
- C. 1, 15, and 30 seconds
- D. 15, 30 and 60 minutes
- E. 15, 30 and 60 seconds

**Answer:** A

#### NEW QUESTION 9

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 10

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 10

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 15

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 20

Which archive format is used to create an initramfs image?

- A. gzip
- B. tar
- C. RAR
- D. cpio
- E. bzip2

**Answer:** D

#### NEW QUESTION 21

After installing a compiled kernel, it can not find any modules that are needed to be loaded. What make target was likely missed while installing the kernel?

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

make modules\_install, modules\_install

#### NEW QUESTION 24

Which of the following terms are used to describe 3.x kernel releases? (Choose TWO correct answers.)

- A. beta
- B. final
- C. longterm
- D. prerelease
- E. stable

**Answer:** CE

#### NEW QUESTION 26

Which keyword is used in the /etc/inittab file to define the SysV-init default system runlevel?

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

initdefault

#### NEW QUESTION 30

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 34

Which file tells GRUB the paths of the filesystem partitions in both Linux format and in the GRUB syntax? (Specify the file name only with no path information)

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

device.map

#### NEW QUESTION 35

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 40

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 41

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 43

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 48

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 52

Which command is used to create a ISO9660 filesystem? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

`mkisofs`, `genisoimage`

#### NEW QUESTION 55

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 59

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 62

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 67**

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 72**

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 73**

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 77**

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 79**

What are the options to `node.startup` in the `iscsid.conf` file? (Choose TWO correct answers.)

- A. `login`
- B. `initiate`
- C. `manual`
- D. `discover`
- E. `automatic`

**Answer:** CE

**NEW QUESTION 80**

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 82**

A correctly formatted entry has been added to `/etc/hosts.deny` to prevent certain clients from connecting to a service but this is having no effect. What could be the cause of this? (Choose TWO correct answers.)

- A. `tcpd` needs to be sent the HUP signal.
- B. The service needs to be restarted.
- C. The machine needs to be restarted.
- D. There is a conflicting entry in `/etc/hosts.allow`.
- E. The service does not support `tcpwrapper`.

**Answer:** DE

#### NEW QUESTION 85

What should be done to ensure a client machine uses the recursive nameserver running on the IP address 192.168.1.1 ? (Choose TWO correct answers.)

- A. Add nameserver 192.168.0.1 to /etc/resolv.conf.
- B. Run route add nameserver 192.168.0.1.
- C. Run ifconfig eth0 nameserver 192.168.0.1.
- D. Ensure that the dns service is listed in the hosts entry in the /etc/nsswitch.conf file.
- E. Run bind add nameserver 192.168.0.1.

**Answer:** AD

#### NEW QUESTION 90

The users of the local network complain that name resolution is not fast enough. Enter the command, without the path or any options, that shows the time taken to resolve a DNS query.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

dig, time dig, time host, time nslookup

#### NEW QUESTION 91

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 94

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 96

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 101

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 102**

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 104**

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 108**

Which file contains the text message that is displayed after logging into the console? (Specify the full name of the file, including path.)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**  
/etc/motd

**NEW QUESTION 111**

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 116**

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 117**

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 119**

Which of the following properties should be recorded in order to monitor the quality of a network link? (Choose two.)

- A. Bandwidth in both directions
- B. Number of nodes using the link
- C. Effective Latency
- D. Number of IPv4 and IPv6 packets
- E. Number of used TCP ports

**Answer:** AC

#### NEW QUESTION 120

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 123

What command ensures that the file systems are written to disk after a lot of write operations? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

sync

#### NEW QUESTION 124

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 126

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 129

Which of the following configuration files are used by tcpwrapper?

- A. /etc/tcpd.allow and etc/tcpd.deny
- B. /etc/tcpwrapper.allow and /etc/tcpwrapper.deny
- C. /etc/hosts.allow and /etc/hosts.deny
- D. /etc/service.allow and /etc/service.deny

**Answer:** C

#### NEW QUESTION 134

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 138

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 140

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 145

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 148

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 149

After the downloading patch-4.6.4.xz from <http://kernel.org>, what are the next steps to prepare the build of a version 4.6.4 Linux kernel? (Choose two.)

- A. Uncompress the file and move the resulting directory to /usr/src/linux
- B. Apply the patch file to the kernel source directory containing kernel version 4.6.0
- C. Apply the patch file to the kernel source directory containing kernel version 4.6.3
- D. Uncompress the file using xz to get the uncompressed patch file
- E. Use patch to apply the uncompressed patch file to the source directory of any previous kernel version

**Answer:** DE

#### NEW QUESTION 153

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