



# LPI

## **Exam Questions 201-450**

LPIC-2 Exam 201 Part 1 of 2 version 4.5



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In the following output from top, which processes contribute to the percentage of time that the CPU spends in the state of wa?

Tasks: 193 total, 1 running, 190 sleeping, 2 stopped, 0 zombie

Cpu(s): 0.5%us, 0.3%sy, 0.0%ni, 98.2%id, 1.0%wa, 0.0%hi, 0.0%si, 0.0%st

- A. Processes waiting for user interaction.
- B. Processes that were already closed and are waiting to be launched again.
- C. Processes that have not been scheduled yet because they haven't been fully loaded into RAM or are in swap.
- D. Processes waiting for IO operations to complete.

Answer: D

#### **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. cifsiostat

Answer: BD

#### **NEW QUESTION 3**

In this example output, which descriptions match the purpose of the free, buff and cache columns? (Choose THREE correct answers.) # ymstat 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 4**

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 5**

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 interva
- E. It is some value between 0.47 and 24.71.
- F. There is no 5 minute interva
- G. It is some value between 24.71 and 35.31.

Answer: B

## **NEW QUESTION 6**

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 7**

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 8**

According to the Filesystem Hierarchy Standard (FHS), what is the path to the Linux kernel source and may be a symbolic link to the real Linux source code? (Please specify the full path with no version information.)

A. Mastered

B. Not Mastered

Answer: A

#### **Explanation:**

/usr/src/linux, /usr/src/linux/

#### **NEW QUESTION 9**

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 10**

Which of the following command sequences can be used to extract files contained in a initramfs file (/boot/initramfs) which is used by the kernel at boot time?

A. cp /boot/initramfs /tmp/initramfs.gz; gzip -c /tmp/initramfs.gz; mkdir /tmp/initramfs.dir; cd/tmp/initramfs.dir; cpio -i < /tmp/initramfs

B. cp /boot/initramfs /tmp/initramfs.gz; gunzip /tmp/initramfs.gz; mkdir /tmp/initramfs.dir; cd/tmp/initramfs.dir; cpio -i < /tmp/initramfs

C. cp /boot/initramfs /tmp/initramfs.gz; gunzip /tmp/initramfs.gz; mount /tmp/initramfs /mnt/ -o loop -t initramfs

D. cp /boot/initramfs /tmp/initramfs.gz; gunzip /tmp/initramfs.gz; mkdir /tmp/initramfs.dir ; cd/tmp/initramfs.dir ; cpio -e /tmp/initramfs

Answer: B

## **NEW QUESTION 10**

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 13**

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 17**

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 18**

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 19**

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 23**

A server requires a GRUB2 boot option which will always boot to runlevel 1. Which line of a GRUB2 configuration file starts the beginning of the settings needed to make this new choice available?

A. initrd

B. linux

C. menuentry

D. runlevel

Answer: B

## **NEW QUESTION 28**

A system with SysV-init has a service installed called apache2. Which file controls the start and stop of this service and is referenced by the various runlevel directories?

A. /etc/init.d/apache2

B. /etc/rc2.d/70apache2

C. /etc/rc2.d/apache2

D. /etc/rc2.d/apache2.start

Answer: A

## **NEW QUESTION 29**

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 34**

If all of the following files and/or symlinks exist in a SysV-init runlevel directory, which of the following will be executed first when booting the system directly into the runlevel?

A. S99lpi

B. K99lpi

C. PRE-S99lpi

D. S98lpi

E. S99a-lpi

Answer: D

## NEW QUESTION 36

The main configuration file for autofs has this entry:



A. MasteredB. Not Mastered

Answer: A

#### **Explanation:**

/home /etc/auto.home

#### **NEW QUESTION 38**

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 42**

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 46**

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 47**

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 50**

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



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 56**

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 60**

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 63**

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 68**

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 73**

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 77**

What action should be performed after increasing the size of a logical volume?

- A. Run vgresize.
- B. Increase the size of the filesystem used for the logical volume.
- C. Run Ivresize.
- D. Remount the logical volume.

Answer: B



Which program lists information about files and network connections opened by processes? (Specify ONLY the command without any path or parameters.)

A. Mastered

B. Not Mastered

Answer: A

#### **Explanation:**

Isof, /usr/bin/Isof

### **NEW QUESTION 86**

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 91**

Which of the following filter keywords for tcpdump specify the transfer direction for network packets? (Choose TWO correct answers.)

A. source

B. src

C. dest

D. src or dst

E. both

Answer: BD

#### **NEW QUESTION 92**

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 97**

Which /etc/hosts.allow entries will permit access to sshd for users from the 192.168.1.0/24 subnet? (Choose TWO correct answers.)

A. sshd: 192.168.1. B. sshd: 192.168.1

C. sshd: 192.168.1.0 netmask 255.255.255.0

D. sshd: 192.168.1.0/255.255.255.0

E. sshd: 192.168.1.0

Answer: AD

## **NEW QUESTION 100**

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 103**

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. netscanE. hostdiscover

Answer: A

### **NEW QUESTION 106**

The following is an excerpt from the output of tcpdump -nli eth1 'udp': 13:03:17.277327 IP 192.168.123.5.1065 > 192.168.5.112.53: 43653+ A? lpi.org. (25) 13:03:17.598624 IP 192.168.5.112.53 > 192.168.123.5.1065: 43653 1/0/0 A 198.51.100.42 (41)

Which network service or protocol was used?

A. FTP

B. HTTP

C. SSH

D. DNS

E. DHCP

Answer: D

#### **NEW QUESTION 107**

What is the command to add another IP address (192.168.1.2) to a network interface (eth0) that already has (at least) one IP address in the 192.168.1.0/24 subnet?

A. ip add addr 192.168.1.2/32 dev eth0

B. ifconfig eth0 192.168.1.2 netmask 255.255.255.255

C. ip addr add 192.168.1.2/32 dev eth0

D. ipconfig eth0 192.168.1.2

Answer: C

#### **NEW QUESTION 111**

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 112**

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 113**

Which of the following commands will securely copy the directory ./fyf/ to /var/tmp/ on the remote host deltaur using the remote user account kevin?

A. rsync -a -e ssh kevin@deltaur:/var/tmp/ fyf/

B. rsync -a -u kevin -e ssh fyf/ deltaur:/var/tmp/

C. rsync -a -u kevin -e ssh deltaur:/var/tmp/ fyf/

D. rsync -a -e ssh fyf/ kevin@deltaur:/var/tmp/

Answer: D

## **NEW QUESTION 118**

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 122**

A regular user, joe, has just run:

./configure && make && make install

to build and install a program. However, the installation fails. What could be done to install the program? (Choose TWO correct answers.)



- A. Install the binaries manually with suinstall.
- B. Run make install with root privileges.
- C. Do not run ./configure in order to maintain the default configuration for correct installation.
- D. Rerun ./configure with a --prefix option where the user has permissions to write.
- E. Run make install\_local to install into /usr/local/.

Answer: BD

#### **NEW QUESTION 123**

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 127**

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 128**

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 129**

Which of the following is a userspace application used to modify EFI entries on a Linux system?

A. efieditor

B. configefi

C. efimanager

D. efiboottmgr

E. efibootedit

Answer: D

## **NEW QUESTION 132**

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 137**

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 142**

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 147**

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 149**

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 151**

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 152**

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 153**

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 156**

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



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 160**

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 163**

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 165**

Which directory contains system-specific systemd unit files? (Specify the full path to the directory.)

A. Mastered

B. Not Mastered

Answer: A

## **Explanation:**

/lib/systemd/system

## **NEW QUESTION 167**

Which command is used to install a GRUB boot loader into the master boot record?

A. grub-install

B. grub-mkconfig

C. grub-install-mbr

D. grub-glue-mbr

E. grub-mbr-setup

Answer: A

## **NEW QUESTION 170**

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