

## 201-450 Dumps

### LPIC-2 Exam 201 Part 1 of 2 version 4.5

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**NEW QUESTION 1**

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 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**

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

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

**Answer: BD**

**NEW QUESTION 4**

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 5**

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 6**

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 0 100 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 7**

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

**Answer:** B

**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 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 10**

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 10**

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 11**

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 13**

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 16

Which archive format is used to create an initramfs image?

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

**Answer:** D

#### NEW QUESTION 17

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 18

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 21

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 23

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 28

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 29

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 34

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 35

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 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 38

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 40

What component of a system does smartd monitor?

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

**Answer:** C

#### NEW QUESTION 42

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 43**

The correct command sequence to create and mount logical volumes on a Linux system is:

- A. lvcreate, pvcreate, vgcreate, mkfs, mount
- B. pvcreate, vgcreate, lvcreate, mkfs, mount
- C. vgcreate, lvcreate, pvcreate, mount, mkfs
- D. mkfs, pvcreate, vgcreate, lvcreate, mount
- E. pvcreate, lvcreate, vgcreate, mkfs, mount

**Answer:** B

**NEW QUESTION 47**

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 52**

How can the label root be added to the ext4 filesystem on /dev/sda1?

- A. relabel /dev/sda1 root
- B. tune2fs -L root /dev/sda1
- C. echo 'root' > /proc/fs/sda1/label
- D. labelfs --device /dev/sda1 root

**Answer:** B

**NEW QUESTION 53**

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 56**

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 57**

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 61**

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 63**

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 64**

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 69**

Which of the following commands can be used to script interactions with various TCP or UDP services?

- A. ftp
- B. nc
- C. tcpdump
- D. strings
- E. wget

**Answer:** B

**NEW QUESTION 74**

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 79**

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 81**

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 84**

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 86**

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 87**

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 90**

Which of the following wireless tools can be used to check the wireless network link quality? (Choose TWO correct answers.)

- A. iwconfig
- B. iwlink
- C. iwscan
- D. iwifi
- E. iw

**Answer:** AE

**NEW QUESTION 91**

Which of the following files are used to resolve hostnames to IP addresses? (Choose TWO correct answers.)

- A. /etc/systems
- B. /etc/hosts
- C. /etc/network
- D. /etc/dns.conf
- E. /etc/resolv.conf

**Answer:** BE

**NEW QUESTION 94**

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 98**

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 103**

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 105**

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 106**

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 109**

Which sub command to cryptsetup shows information about an encrypted LUKS partition?

- A. luksDump
- B. luksInfo
- C. luksDebug
- D. luksLS
- E. luksShow

**Answer:** A

**NEW QUESTION 111**

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 114**

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 117**

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 119

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 124

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 128

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. lvclone
- B. lvcreate
- C. lvm2
- D. lvsnap
- E. lvsnapshot

**Answer:** B

#### NEW QUESTION 130

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 add addr add new 2001:db8::1337/64 dev eth0
- E. ip addr add -6 2001:db8::1337/64 dev eth0

**Answer:** D

#### NEW QUESTION 134

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 139

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 142

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 146**

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 149**

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 150**

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