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
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
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 5
In this example output, which descriptions match the purpose of the free, buff and cache columns? (Choose THREE 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. 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 6
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 7
What option in the collectd configuration file is required in order to define what to start monitoring?

A. LoadModule
B. Module
C. Plugin
D. LoadPlugin

Answer: D

NEW QUESTION 8
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 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 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
On a server running the 3.4.50-11 Linux kernel, which file in the /boot directory contains the kernel configuration parameters?

A. config-linux-3.4.50-11
B. config-3.4.50-11
C. system-3.4.50-11
D. vmlinuz-3.4.50-11
E. rc.config-3.4.50-11

Answer: B

NEW QUESTION 12
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 13
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 18
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
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
E. cp /boot/initramfs /tmp/initramfs.gz; gunzip /tmp/initramfs.gz; mount /tmp/initramfs /mnt/ -o loop -t initrd

Answer: B

NEW QUESTION 26
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 27
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 30
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 33
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 36
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 41
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 45
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 47
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 50
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 54
What are the main network services used by the PXE protocol? (Choose TWO correct answers.)

A. DNS
B. DHCP
C. HTTP
D. TFTP
E. NFS

Answer: BD

NEW QUESTION 55
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 59
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 60
How can the label root be added to the ext2 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 61
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 66
Which command turns an existing ext2 filesystem non-destructively into an ext3 filesystem? (Specify ONLY the command without any path or parameters.)

A. Mastered
B. Not Mastered

Answer: A

Explanation:
/sbin/tune2fs, tune2fs

NEW QUESTION 69
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 74
What does a 0 in the last field (fsck order) of /etc/fstab indicate about the filesystem?

A. The filesystem should be checked before filesystems with higher values.
B. The filesystem should be checked after filesystems with higher values.
C. The filesystem check counter is ignored.
D. The filesystem has been disabled from being checked and mounted on the system.
E. The filesystem does not require an fsck check when being mounted.

Answer: E

NEW QUESTION 76
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 78
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 81
Which file in /proc contains information on the status of local software RAID devices?

A. /proc/raidstat
B. /proc/mdstat
C. /proc/raidstatus
D. /proc/mdstatus
E. /proc/raid/status

Answer: B

NEW QUESTION 82
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 85
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 89
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 92
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 95
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 100
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 104
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 109
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 114
Which RAID level value must be used with Linux software RAID in order to create an array of mirrored devices?

A. 1
B. 5
C. 6
D. container
E. mirrorstripe

Answer: A

NEW QUESTION 117
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 120
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 124
Under which of the following circumstances would the command ping output the string (DUP!)?

A. When the ICMP packets are send 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 128
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 131
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 134
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 135
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 138
Running tcpdump -nli eth1 'tcp' shows the following output:
14:41:53.694538 IP 10.1.52.145.51738 > 24.215.7.162.143: Flags [.], ack 33051, win 1002, options
[nop,nop,TS val 36789130 ecr 1746004159], length 0
What is the source IP address of this packet? (Please specify the answer in digits and dots ONLY.)

A. Mastered
B. Not Mastered

Answer: A

Explanation:
10.1.52.145

NEW QUESTION 143
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 148
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 150
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 154
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 159
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 164
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 169
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 171
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 175
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 179
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 182
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 186
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 189
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. lvcclone
B. lvcreate
C. lvm2
D. lvsnap
E. lvsnapshot

Answer: B

NEW QUESTION 193
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 198
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 200
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 202
What is the purpose of an initramfs during the Linux system start?

A. It loads required modules and starts sub sytems 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 207
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