201-450 Dumps

LPIC-2 Exam 201 Part 1 of 2 version 4.5

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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
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 4
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 5
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 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 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, 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 8
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 9
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 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 10
What is the purpose of the command udevadm monitor?

A. It listens to kernel events produced by a udev rule and print information to the console.
B. It monitors the /dev directory for new devices.
C. It monitors the udev process and prints performance statistics to the console.
D. It communicates with D-Bus to setup new devices.

Answer: A

NEW QUESTION 11
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 14
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
After configuring a new kernel, what file under /usr/src/linux/ contains the configuration?

A. Mastered
B. Not Mastered

Answer: A

Explanation:
/usr/src/linux/.config, .config

NEW QUESTION 19
Which archive format is used to create an initramfs image?

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

Answer: D

NEW QUESTION 22
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
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 31
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 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 37
Which option to the update-rc.d command will cause the removal of all symlinks to /etc/rcX.d/*test2 even when the script /etc/init.d/test2 still exists?

A. -d
B. -f
C. -n
D. -r

Answer: B

NEW QUESTION 41
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 42
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 43
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 45
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 47
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 52
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 55
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 59
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 62
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 66
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 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 71
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 73
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 74
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 75
What is the minimum number of disks required in a fully redundant RAID5 array?

A. 1
B. 2
C. 3
D. 4
E. 5

Answer: C

NEW QUESTION 77
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 79
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 84
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 87
What component of a system does smartd monitor?

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

Answer: C

NEW QUESTION 92
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 96
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 99
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 100
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 105
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 110
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 111
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 115
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 117
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 122
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 124
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 126
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 131
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 132
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 133
Which of the following commands erases 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 136
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 139
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 141
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 144
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
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 153
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 158
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 161
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 163
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 167
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 168
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