LPI

Exam Questions 201-450

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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 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
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
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 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 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 8
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 9
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 10
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 10
Which archive format is used to create an initramfs image?

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

Answer: D

NEW QUESTION 14
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 15
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 16
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 18
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 20
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 25
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 30
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 32
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
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 39

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 41
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 42
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 45
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 48
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 50
What component of a system does smartd monitor?

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

Answer: C

NEW QUESTION 53
Which files are updated as devices are mounted and unmounted to provide information on the currently
mounted devices and the options used? (Choose TWO correct answers.)

A. /proc/dtab
B. /etc/mtab
C. /etc/fstab
D. /proc/mounts
E. /proc/devices

Answer: BD

NEW QUESTION 57
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 61
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 66
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 68
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 69
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 74
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 79
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 83
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 87
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 91
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 94
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 98
Which of the following is an example path to a Linux software RAID array?

A. /dev/raid0
B. /dev/rd1
C. /dev/pr0
D. /dev/md1

Answer: D

NEW QUESTION 102
What component of a system does smartd monitor?

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

Answer: C

NEW QUESTION 107
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 112
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 117
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 122
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 127
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:
lsof, /usr/bin/lsof

NEW QUESTION 129
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 134
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 137
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 141
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 143
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 145
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 150
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 154
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 156
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 161
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 166
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 167
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 170
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 171
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 174
The following command has just been run successfully: cd /opt; tar xvf /dev/nst0;
What will happen if the command sequence is run again?

A. An error saying that there is no tape present is generated because the tape has been ejected after being used.
B. The contents of /opt will be restored again.
C. The entire contents of /opt will be replaced with the contents of the next file on the tape.
D. The contents of /opt will have additional content added from the next file on the tape.

Answer: D

NEW QUESTION 175
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 180
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 184
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 187
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 191
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 196
A Linux server running systemd booted to rescue.target for maintenance. Which commands are used to restore the server to its usual target? (Choose two.)

A. telinit 0
B. systemctl default
C. sync
D. systemctl emergency
E. systemctl reboot

Answer: AB

NEW QUESTION 200
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 203
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 206
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 209
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 210
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