LPI

Exam Questions 201-450

LPIC-2 Exam 201 Part 1 of 2 version 4.5

NEW QUESTION 1
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 2
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 3
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 4
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 5
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 6
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 7
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 8
Which archive format is used to create an initramfs image?

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

Answer: D

NEW QUESTION 9
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 10
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 10
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 14
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 16
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 19
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 20
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 25
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 29
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 33
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 37
The main configuration file for autofs has this entry:

A. Mastered
B. Not Mastered

Answer: A

Explanation:
/home /etc/auto.home

NEW QUESTION 38
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 40
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 41
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 44
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 47
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 52
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 57
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 62
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 65
What component of a system does smartd monitor?

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

Answer: C

NEW QUESTION 67
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 69
Which single command will simulate a failed device within a RAID 5 array?

A. mdadm --remove /dev/md0 /dev/sdd1
B. mdadm --zero-superblock /dev/sdf3
C. mdadm --force-fault /dev/md2 /dev/sde2
D. mdadm --fail /dev/md0 /dev/sdc1
E. mdadm /dev/md0 --offline /dev/sdc1

Answer: D

NEW QUESTION 71
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 73
Which two LVM commands are missing from the following sequence which is used to create a logical volume and make use of it on a Linux system?
pvcreate, _____, _____, mkfs, mount

A. lvcreate, mdadm
B. lvcreate, vgcreate
C. lvmcreate, vgcreate
D. vgcreate, lvcreate
E. vgcreate, mdadm

Answer: D

NEW QUESTION 76
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 78
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 82
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 86
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 91
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 96
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 97
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 98
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 100
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 103
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 107
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 109
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 114
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 118
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 123
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 128
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 133
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 136
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