

LPI

Exam Questions 201-450

LPIC-2 Exam 201 Part 1 of 2 version 4.5



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 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 3

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 4

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 5

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 6

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 7

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 8

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 9

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

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 10

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 15

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 16

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 20

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 22

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 27

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 31

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 36

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 40

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 42

After changing the default runlevel in the SysV-init configuration file, the system boots in a different than intended runlevel. Where else could this different runlevel be defined?

- A. In the /etc/sysctl.conf
- B. In the boot loader configuration file
- C. In the /etc/runlevel file
- D. In the /boot/initramfs file
- E. In the /etc/rc.d/rc.local file

Answer: B

NEW QUESTION 45

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 50

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 52

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 56

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 57

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 62

What component of a system does smartd monitor?

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

Answer: C

NEW QUESTION 65

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 70

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 75

Consider the following /etc/fstab file:

```
/dev/hda1 swap swap defaults 0 0
/dev/hda2 / ext2 defaults 1 1
/dev/hda3 /home ext2 defaults 1 2
none /proc proc defaults 0 0
/dev/sdb1 /media/usb0 vfat user,noauto 0 0
```

What is one of the possible commands that an ordinary (non-root) user can use to mount the /dev/sdb1 partition on the /media/usb0 mount point? (Please enter the command with all parameters and/or options but without any file system type options.)

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

mount /dev/sdb1, mount /media/usb0, /bin/mount /dev/sdb1, /bin/mount /media/usb0, mount /media/usb0, /bin/mount /media/usb0/

NEW QUESTION 80

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 81

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 84

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 86

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 89

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 92

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 97

What component of a system does smartd monitor?

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

Answer: C

NEW QUESTION 100

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 105

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 107

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 112

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 114

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:

lsuf, /usr/bin/lsuf

NEW QUESTION 116

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 118

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 119

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 124

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 125

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 128

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 130

What is incorrect about these entries in /etc/hosts which could be causing host name lookup problems with host2?

```
host1 192.168.1.12
host2 192.168.1.12
```

- A. Two host names are using the same IP address.
- B. The server doing the query is on a different subnet.
- C. The fields are out of order.
- D. host2 is not a fully qualified domain name.

Answer: C

NEW QUESTION 131

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 133

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 134

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 139

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 140

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 144

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 145

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 150

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 153

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 156

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 158

Which of the following commands shows capabilities and usable frequencies for the wireless interface wlan0?

- A. iw phy phy0 info
- B. iw dev wlan0 info
- C. iw dev wlan0 show
- D. iw phy wlan0 show
- E. iw phy0 show

Answer: A

NEW QUESTION 161

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 165

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 166

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 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 168

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