



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

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 4

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 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

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

How is the source code for the main Linux kernel modules distributed?

- A. It is included with the Linux kernel source code.
- B. The kernel modules are downloaded on demand as they are used during compilation.
- C. The kernel modules have their own release cycle and can be maintained separately from the Linux kernel source.
- D. It is provided as a separate download alongside the Linux kernel source code of the same version.

Answer: A

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

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 memory
- 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 23

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 28

Which keyword is used in the /etc/inittab file to define the SysV-init default system runlevel?

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

initdefault

NEW QUESTION 31

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 36

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 40

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 42

The main configuration file for autofs has this entry:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

/home /etc/auto.home

NEW QUESTION 44

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 45

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 49

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 51

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 52

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 56

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 57

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 61

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 66

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 70

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 75

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 80

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 83

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 86

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 89

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 91

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 94

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 95

What action should be performed after increasing the size of a logical volume?

- A. Run vgresize.
- B. Increase the size of the filesystem used for the logical volume.
- C. Run lvresize.
- D. Remount the logical volume.

Answer: B

NEW QUESTION 96

Under which of the following circumstances would the command ping output the string (DUP!)?

- A. When the ICMP packets are sent 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 97

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 99

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 100

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 102

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 103

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 106

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 110

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 113

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 117

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 121

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 126

Which sub command to `crypsetup` shows information about an encrypted LUKS partition?

- A. `luksDump`
- B. `luksInfo`
- C. `luksDebug`
- D. `luksLS`
- E. `luksShow`

Answer: A

NEW QUESTION 130

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 132

After manually compiling and installing a new kernel, what has to be done regarding the `initramfs`?

- A. `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 134

What command is used to send messages to all users currently logged in? (Specify ONLY the command without any path or parameters.)

- A. `Mastered`
- B. `Not Mastered`

Answer: A

Explanation:

`wall`

NEW QUESTION 135

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 140

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 148

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 152

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 157

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 159

After the downloading patch-4.6.4.xz from <http://kernel.org>, what are the next steps to prepare the build of a version 4.6.4 Linux kernel? (Choose two.)

- A. Uncompress the file and move the resulting directory to /usr/src/linux
- B. Apply the patch file to the kernel source directory containing kernel version 4.6.0
- C. Apply the patch file to the kernel source directory containing kernel version 4.6.3
- D. Uncompress the file using xz to get the uncompressed patch file
- E. Use patch to apply the uncompressed patch file to the source directory of any previous kernel version

Answer: DE

NEW QUESTION 160

What is the purpose of an initramfs during the Linux system start?

- A. It loads required modules and starts sub systems 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 162

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 164

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