

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 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

Which commands below are useful to collect data about remote filesystem connections? (Choose TWO correct answers.)

- A. pidstat
- B. nfsiostat
- C. sadf
- D. cifsostat

Answer: BD

NEW QUESTION 4

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 5

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 6

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 7

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 8

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 9

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 10

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 10

Which commands are used to load modules into the Linux kernel? (Choose TWO correct answers.)

- A. insmod
- B. loadmod
- C. kernload
- D. modprobe
- E. probemod

Answer: AD

NEW QUESTION 11

Which directory contains the system-specific udev rule files? (Specify the absolute path including the directory name)

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

/etc/udev/rules.d, /etc/udev/rules.d/

NEW QUESTION 13

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 15

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 17

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 19

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 21

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

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 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 29

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 34

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 38

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 41

The main configuration file for autofs has this entry:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

/home /etc/auto.home

NEW QUESTION 45

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 47

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 48

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 49

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 53

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 56

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 58

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 63

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 68

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 70

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 75

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 80

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 81

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 82

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 85

According to the tcpdump output below, what is the IP address of the client host?

```
02:12:40.511381 IP 192.168.246.11.1045 > 192.168.246.1.22: S 3838532429:3838532429(0) win 5840 <mss 1460,sackOK,timestamp 31325740,nop,wscale 2>
02:12:40.511540 IP 192.168.246.1.22 > 192.168.246.11.1045: S 1209330085:1209330085(0) ack 3838532430 win 5792 <mss 1460,sackOK,timestamp 11553457 3132574,nop,wscale 0>
02:12:40.511755 IP 192.168.246.11.1045 > 192.168.246.1.22: . ack 1 win 1460 <nop,nop,timestamp 3 132574 11553457>
02:12:40.515122 IP 192.168.246.1.22 > 192.168.246.11.1045: P 1:26(25) ack 1 win 5792 <nop,nop,timestamp 11553460 3132574>
02:12:40.515511 IP 192.168.246.11.1045 > 192.168.246.1.22: . ack 26 win 1460 <nop,nop,timestamp 3132578 11553460>
02:12:40.515952 IP 192.168.246.11.1045 > 192.168.246.1.22: P 1:23(22) ack 26 win 1460 <nop,nop,timestamp 3132578 11553460>
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

192.168.246.11

NEW QUESTION 87

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 88

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 89

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 90

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 91

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 93

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 97

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 100

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 104

Which of the following is a userspace application used to modify EFI entries on a Linux system?

- A. efieditor
- B. configefi
- C. efimanager
- D. efibootmgr
- E. efibootedit

Answer: D

NEW QUESTION 107

Which of the following commands adds a static IPv6 address to the network interface eth0?

- A. ip add addr 2001:db8::1337/64 dev eth0
- B. ip -6 add addr 2001:db8::1337/64 dev eth0
- C. ip addr add 2001:db8::1337/64 dev eth0
- D. ip -6 addr add new 2001:db8::1337/64 dev eth0
- E. ip addr add -6 2001:db8::1337/64 dev eth0

Answer: D

NEW QUESTION 109

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 111

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