



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

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 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

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 8

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 9

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 10

Which of the following terms are used to describe 3.x kernel releases? (Choose TWO correct answers.)

- A. beta
- B. final
- C. longterm
- D. prerelease
- E. stable

Answer: CE

NEW QUESTION 10

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 11

Please enter the complete path to the main SysV init process configuration file.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

/etc/inittab

NEW QUESTION 14

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 18

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 22

During booting, when the Linux kernel loads an initramfs file, which command from the initramfs will be executed first, if present?

- A. /init
- B. /initrd
- C. /linuxrc
- D. /rc.local
- E. /sbin/init

Answer: A

NEW QUESTION 26

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 30

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 33

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 38

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 41

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 42

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 43

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 47

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 51

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 55

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 58

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 61

What component of a system does smartd monitor?

- A. CPU

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

Answer: C

NEW QUESTION 66

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 68

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 72

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 77

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 78

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 81

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 84

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 88

Which of the following commands can be used to list IPv4 addresses and MAC addresses for IP devices that the system has seen on the local network?

- A. arp
- B. ifconfig
- C. ipadm
- D. iwlist

Answer: A

NEW QUESTION 92

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 97

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 100

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 105

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 107

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 111

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 116

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 120

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 125

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 127

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 128

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 131

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 134

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 135

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 136

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 138

Which of the following commands displays the physical path of the kernel module named `dummy`?

- A. `modprobe -i dummy`
- B. `modinfo -n dummy`
- C. `modpath -v dummy`
- D. `depmod -n dummy`
- E. `modshow -p dummy`

Answer: A

NEW QUESTION 140

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 143

In the output of `sar -b`, what does `tps` stand for?

- A. Terrabyte per second
- B. Traffic per second
- C. Transfers per second
- D. Total data per second
- E. Terrabit per second

Answer: C

NEW QUESTION 146

In order to gather performance data with `sar` over a longer period of time, which command should be run periodically from `cron`?

- A. `sa1`
- B. `sarmon`
- C. `sarec`
- D. `sadf`
- E. `sarcron`

Answer: A

NEW QUESTION 148

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 150

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