



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

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 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

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 6

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 7

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 8

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 9

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 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 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 15

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 17

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 21

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 23

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 26

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 28

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 31

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 34

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 37

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 38

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 39

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 47

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 49

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 50

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 52

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 56

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 61

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 62

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 65

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 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 73

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 77

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 78

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 80

What component of a system does smartd monitor?

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

Answer: C

NEW QUESTION 84

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 89

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 92

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 97

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 99

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 101

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 102

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 106

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 107

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:

lsdf, /usr/bin/lsdf

NEW QUESTION 110

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 115

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 116

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 118

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 120

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 125

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 127

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 129

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 134

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 135

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 139

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 143

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 146

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 148

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 150

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 154

What command discards unused blocks on a mounted file system in order to support SSD devices? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:
fstrim

NEW QUESTION 157

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 162

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 164

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 165

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 170

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 175

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 176

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 178

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 182

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 187

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 192

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 194

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 196

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 198

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 202

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 205

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