101-500.59q

101-500

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LPIC-1 Exam 101

Exam A

QUESTION 1
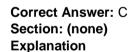Consider the following output from the command ls –i:

```
525385 -rw-rw-r-- 2 1000 1000 0 Feb 12 19:44 a.txt
526255 lrwxrwxrwx 1 1000 1000 5 Feb 12 19:44 b.txt -> a.txt
```

How would a new file named `c.txt` be created with the same inode number as `a.txt` (Inode 525385)?

A. `ln -h a.txt c.txt`

B. `ln c.txt a.txt`

C. `ln a.txt c.txt`

D. `ln -f c.txt a.txt`

E. `ln -i 525385 c.txt`

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 2
Consider the following directory:

```
drwxrwxr-x 2 root sales 4096 Jan 1 15:21 sales
```

Which command ensures new files created within the directory `sales` are owned by the group `sales`? (Choose two.)

A. `chmod g+s sales`

B. `setpol –R newgroup=sales sales`

C. `chgrp –p sales sales`

D. `chown --persistent *.sales sales`

E. `chmod 2775 sales`

Correct Answer: CE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 3
Which chown command changes the ownership to dave and the group to `staff` on a file named `data.txt`?

A. `chown dave/staff data.txt`

B. `chown –u dave –g staff data.txt`

C. `chown --user dave --group staff data.txt`

D. `chown dave+staff data.txt`

E. `chown dave:staff data.txt`

Correct Answer: E
Section: (none)
Explanation

Explanation/Reference:

QUESTION 4
When considering the use of hard links, what are valid reasons not to use hard links?

A. Hard links are not available on all Linux systems because traditional filesystems, such as ext4, do not support them
B. Each hard link has individual ownership, permissions and ACLs which can lead to unintended disclosure of file content
C. Hard links are specific to one filesystem and cannot point to files on another filesystem
D. If users other than `root` should be able to create hard links, `suln` has to be installed and configured

E. When a hard linked file is changed, a copy of the file is created and consumes additional space

Correct Answer: C
Section: (none)

Explanation

Explanation/Reference:

QUESTION 5
In compliance with the FHS, in which of the directories are man pages found?

A. `/opt/man/`

B. `/usr/doc/`

C. `/usr/share/man/`

D. `/var/pkg/man`

E. `/var/man/`

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 6
FILL BLANK

Which file in the /proc filesystem lists parameters passed from the bootloader to the kernel? (Specify the file name only **without any path**.)

Correct Answer: cmdline
Section: (none)
Explanation

Explanation/Reference:

QUESTION 7
What is the process ID number of the `init` process on a System V init based system?

A. -1
B. 0
C. 1
D. It is different with each reboot E. It is set to the current run level

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 8
Which daemon handles power management events on a Linux system?

A. `acpid`

B. `batteryd`

C. `pwrmgntd`

D. `psd`

E. `inetd`

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 9
Which of the following statements are true about the boot sequence of a PC using a BIOS? (Choose two.)

A. Some parts of the boot process can be configured from the BIOS
B. Linux does not require the assistance of the BIOS to boot a computer

C. The BIOS boot process starts only if secondary storage, such as the hard disk, is functional

D. The BIOS initiates the boot process after turning the computer on

E. The BIOS is started by loading hardware drivers from secondary storage, such as the hard disk

Correct Answer: AD
Section: (none)
Explanation
Explanation/Reference:

QUESTION 10
A faulty kernel module is causing issues with a network interface card. Which of the following actions ensures that this module is not loaded automatically when the system boots?

A. Using `lsmod --remove --autoclean` without specifying the name of a specific module

B. Using `modinfo -k` followed by the name of the offending module

C. Using `modprobe -r` followed by the name of the offending module

D. Adding a `blacklist` line including the name of the offending module to the file `/etc/modprobe.d/blacklist.conf`

E. Deleting the kernel module's directory from the file system and recompiling the kernel, including its modules

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 11
When is the content of the kernel ring buffer reset? (Choose two.)

A. When the ring buffer is explicitly reset using the command dmesg `--clear`

B. When the ring buffer is read using `dmesg` without any additional parameters

C. When a configurable amount of time, 15 minutes by default, has passed

D. When the kernel loads a previously unloaded kernel module

E. When the system is shut down or rebooted

Correct Answer: AE

Section: (none)
Explanation

Explanation/Reference:

QUESTION 12
What is the first program the Linux kernel starts at boot time when using System V init?

A. `/lib/init.so`

B. `/proc/sys/kernel/init`

C. `/etc/rc.d/rcinit`

D. `/sbin/init`

E. `/boot/init`

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 13
A Debian package creates several files during its installation. Which of the following commands searches for packages owning the file `/etc/debian_version`?

A. `apt-get search /etc/debian_version`

B. `apt -r /etc/debian_version`

C. `find /etc/debian_version -dpkg`

D. `dpkg -S /etc/debian_version`

E. `apt-file /etc/debian_version`

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 14
Which of the following properties of a Linux system should be changed when a virtual machine is cloned? (Choose two.)

A. The partitioning scheme
B. The file system
C. The D-Bus Machine ID
D. The permissions of `/root/`
E. The SSH host keys

Correct Answer: CE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 15
Which of the following commands installs GRUB 2 into the master boot record on the third hard disk?

A. `grub2 install /dev/sdc`
B. `grub-mkrescue /dev/sdc`
C. `grub-mbrinstall /dev/sdc`
D. `grub-setup /dev/sdc`
E. `grub-install /dev/sdc`

Correct Answer: E
Section: (none)
Explanation

Explanation/Reference:

QUESTION 16
What is true regarding the configuration of yum? (Choose two.)

A. Changes to the repository configuration become active after running `yum confupdate`
B. Changes to the yum configuration become active after restarting the `yumd` service

C. The configuration of package repositories can be divided into multiple files

D. Repository configurations can include variables such as `$basearch` or `$releasever`

E. In case `/etc/yum.repos.d/` contains files, `/etc/yum.conf` is ignored

Correct Answer: CD
Section: (none)
Explanation

Explanation/Reference:
QUESTION 17
Which of the following `apt-get` subcommands installs the newest versions of all currently installed packages?

A. `auto-update`

B. `dist-upgrade`

C. `full-upgrade`

D. `install`

E. `update`

Correct Answer: E
Section: (none)
Explanation

Explanation/Reference:

QUESTION 18
Which command uninstalls a package but keeps its configuration files in case the package is re-installed?

A. `dpkg -s pkgname`

B. `dpkg -L pkgname`

C. `dpkg -P pkgname`

D. `dpkg -v pkgname`

E. `dpkg -r pkgname`

Correct Answer: E
Section: (none)
Explanation

Explanation/Reference:
QUESTION 19
Which of the following commands lists the dependencies of the RPM package file `foo.rpm`?

A. `rpm –qpR foo.rpm`

B. `rpm –dep foo`

C. `rpm –ld foo.rpm`

D. `rpm –R foo.rpm`

E. `rpm –pD foo`

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 20
What is the maximum niceness value that a regular user can assign to a process with the nice command when executing a new process?

A. 9

B. 15

C. 19

D. 49

E. 99

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 21

Which of the following commands list all files and directories within the `/tmp/` directory and its subdirectories which are owned by the user root? (Choose two.)

A. `find /tmp –user root -print`

B. `find –path /tmp –uid root`

C. `find /tmp –uid root -print`

D. `find /tmp –user root`

E. `find –path /tmp –user root -print`

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 22

Which of the following are valid stream redirection operators within Bash? (Choose two.)

A. <

B. #>

C. %>

D. >>>

E. 2>&1

Correct Answer: AE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 23
Which of the following vi commands deletes two lines, the current and the following line?

A. d2
B. 2d
C. 2dd
D. dd2
E. de12

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 24
The command `dbmaint &` was used to run `dbmaint` in the background. However, `dbmaint` is terminated after logging out of the system. Which alternative `dbmaint` invocation lets `dbmaint` continue to run even when the user running the program logs out?

A. `job -b dmaint`

B. `dbmaint &>/dev/pts/null`

C. `nohup dbmaint &`

D. `bg dbmaint`

E. `wait dbmaint`

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 25

From a Bash shell, which of the following commands directly execute the instructions from the file `/usr/local/bin/runme.sh` without starting a subshell? (Choose two.)

A. `source /usr/local/bin/runme.sh`

B. `/usr/local/bin/runme.sh`

C. `/bin/bash /usr/local/bin/runme.sh`

D. `. /usr/local/bin/runme.sh`

E. `run /usr/local/bin/runme.sh`

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:
QUESTION 26
FILL BLANK

Which program runs a command in specific intervals and refreshes the display of the program's output? (Specify **ONLY** the command without any path or parameters.)

Correct Answer: watch
Section: (none)
Explanation

Explanation/Reference:

QUESTION 27

Immediately after deleting 3 lines of text in vi and moving the cursor to a different line, which single character command will insert the deleted content below the current line?

A. i (lowercase)
B. p (lowercase)

C. P (uppercase)

D. U (uppercase)

E. u (lowercase)

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 28
Which of the following commands changes all `CR-LF` line breaks in the text file `userlist.txt` to Linux standard LF line breaks and stores the result in `newlist.txt`?

A. `tr –d '\r' < userlist.txt > newlist.txt`

B. `tr –c '\n\r' '' <newlist.txt> userlist.txt`

C. `tr '\r\n' '' <userlist.txt> newlist.txt`

D. `tr '\r' '\n' userlist.txt newlist.txt`

E. `tr –s '/^M/^J/' userlist.txt newlist.txt`

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 29
What output will be displayed when the user `fred` executes the following command?
`echo 'fred $USER'`

A. `fred fred`

B. `fred /home/fred/`

C. `'fred $USER'`

D. `fred $USER`

E. `fred fred'

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 30
Which of the following commands displays the path to the executable file that would be executed when the command `foo` is invoked?

A. `lsattr foo`

B. `apropos foo`

C. `locate foo`

D. `whatis foo`

E. `which foo`

Correct Answer: E
Section: (none)
Explanation

Explanation/Reference:
QUESTION 31
When redirecting the output of `find` to the `xargs` command, what option to `find` is useful if the filenames contain spaces?

A. `-rep-space`

B. `-printnul`

C. `-nospace`

D. `-ignore-space`

E. `-print0`

Correct Answer: E

Section: (none)
Explanation

Explanation/Reference:

QUESTION 32
Which of the following commands can be used to determine how long the system has been running? (Choose two.)

A. `uptime`

B. `up`

C. `time --up`

D. `uname –u`

E. `top`

Correct Answer: AE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 33
Which of the following files, located in a user's home directory, contains the Bash history?

A. `.bashrc_history`

B. `.bash_histfile`

C. `.history`

D. `.bash_history`

E. `.history_bash`

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 34
Which wildcards will match the following filenames? (Choose two.)
```
ttyS0
ttyS1
ttyS2
```

A. `ttyS[1-5]`

B. `tty?[0-5]`

C. `tty*2`

D. `tty[A-Z][012]` E. `tty[Ss][02]`

Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 35
Which of the following commands redirects the output of `ls` to standard error?

A. `ls >-1`

B. `ls <<ERR`

C. `ls >&2`

D. `ls >>2`

E. `ls |error`

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 36
Which of the following commands displays the contents of a gzip compressed tar archive?

A. `gzip archive.tgz | tar xvf -`

B. `tar -fzt archive.tgz`

C. `gzip -d archive.tgz | tar tvf -`

D. `tar cf archive.tgz`

E. `tar ztf archive.tgz`

Correct Answer: E
Section: (none)
Explanation

Explanation/Reference:

QUESTION 37
Which of the following commands prints a list of usernames (first column) and their primary group (fourth column) from the `/etc/passwd` file?

A. `fmt -f 1,4 /etc/passwd`

B. `cut -d : -f 1,4 /etc/passwd`

C. `sort -t : -k 1,4 /etc/passwd`

D. `paste -f 1,4 /etc/passwd`

E. `split -c 1,4 /etc/passwd`

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
QUESTION 38
Which of the following regular expressions represents a single upper-case letter?

A. :UPPER:

B. [A-Z]
C. !a-z
D. %C
E. {AZ}

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 39
The installation of a local Debian package failed due to unsatisfied dependencies. Which of the following commands installs missing dependencies and completes the interrupted package installation?
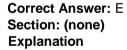
A. `dpkg --fix --all`

B. `apt-get autoinstall`

C. `dpkg-reconfigure --all`

D. `apt-get all`

E. `apt-get install -f`

Correct Answer: E
Section: (none)
Explanation

Explanation/Reference:

QUESTION 40
Which of the following commands are valid in the GRUB 2 configuration file? (Choose two.)

A. `menuentry`

B. `uefi`

C. `pxe-ifconfig`

D. `insmod`

E. `kpartx`

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 41
What is the purpose of the `ldd` command?

A. It lists which shared libraries a binary needs to run.
B. It installs and updates installed shared libraries.
C. It turns a dynamically linked binary into a static binary.
D. It defines which version of a library should be used by default.
E. It runs a binary with an alternate library search path.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 42

What can the Logical Volume Manager (LVM) be used for? (Choose three.)

A. To create snapshots.

B. To dynamically change the size of logical volumes.
C. To dynamically create or delete logical volumes.
D. To create RAID 9 arrays.
E. To encrypt logical volumes.

Correct Answer: ABC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 43
What are the main differences between GPT and MBR partition tables regarding maximum number and size of partitions? (Choose two.)

A. MBR can handle partition sizes up to 4 TB, whereas GPT supports partition sizes up to 128 ZB.
B. By default, GPT can manage up to 128 partitions while MBR only supports four primary partitions.
C. By default, GPT can manage up to 64 partitions while MBR only supports 16 primary partitions.
D. MBR can handle partition sizes up to 2.2 TB, whereas GPT supports sizes up to 9.4 ZB.
E. Both GPT and MBR support up to four primary partitions, each with up to 4096 TB.

Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 44
A backup software heavily uses hard links between files which have not been changed in between two backup runs. Which benefits are realized due to these hard links? (Choose two.)

A. The old backups can be moved to slow backup media, such as tapes, while still serving as hard link target in new backups.

B. The backup runs faster because hard links are asynchronous operations, postponing the copy operation to a later point in time.

C. The backup is guaranteed to be uncharged because a hard linked file cannot be modified after its creation.

D. The backup consumes less space because the hard links point to the same data on disk instead of storing redundant copies.

E. The backup runs faster because, instead of copying the data of each file, hard links only change file system meta data.

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 45
FILL BLANK

Which file from the `/proc/` file system contains a list of all currently mounted devices? (Specify the full name of the file, **including path**.)

Correct Answer: /proc/mounts
Section: (none)
Explanation

Explanation/Reference:

QUESTION 46
How many fields are in a syntactically correct line of `/etc/fstab`?

A. 3
B. 4
C. 5
D. 6
E. 7

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 47

Running `chmod 640 filea.txt` as a regular user doesn't update `filea.txt`'s permission. What might be a reason why chmod cannot modify the permissions? (Choose two.)

A. `filea.txt` is owned by another user and a regular user cannot change the permissions of another user's file.

B. `filea.txt` is a symbolic link whose permissions are a fixed value which cannot be charged.

C. `filea.txt` has the sticky bit set and a regular user cannot remove this permission.

D. `filea.txt` is a hard link whose permissions are inherited from the target and cannot be set directly.

E. `filea.txt` has the SetUID bit set which imposes the restriction that only the `root` user can make changes to the file.

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 48

Which of the following commands show how the shell handles a specific command?

A. `where`

B. `type`

C. `stat`

D. `case`

E. `fileinfo`

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 49

Which of the following commands displays the manual page `command` from section 1?

A. `man command(1)`

B. `man command@1`

C. `man 1 command`

D. `man 1.command`

E. `man -s 1 command`

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 50
Which of the following commands creates or, in case it already exists, overwrites a file called `data` with the output of `ls`?

A. `ls 3> data`

B. `ls >& data`

C. `ls > data`

D. `ls >> data`

E. `ls >>> data`

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 51
Which of the following commands is used to change options and positional parameters within a running Bash shell?

A. `history`

B. `setsh`

C. `bashconf`

D. `set`

E. `envsetup`

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 52
Which of the following commands outputs `test` to the shell?

A. `cat`
   `<!EOT`
   `test EOT`

B. `cat`
   `<|EOT`
   `test EOT`

C. `cat`
   `!<EOT`
   `test EOT`

D. `cat`
   `&<EOT`
   `test EOT`

E. `cat`
   `<<EOT`
   `test EOT`

Correct Answer: E
Section: (none)
Explanation

Explanation/Reference:

QUESTION 53
What is the default nice level when a process is started using the `nice` command?

A. -10
B. 0
C. 10
D. 15
E. 20

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
QUESTION 54
A user accidentally created the subdirectory `\dir` in his home directory. Which of the following commands will remote that directory?

A. `rmdir ~/\\dir`

B. `rmdir "~/\dir"`

C. `rmdir ~/'dir'`

D. `rmdir ~/\dir`

E. `rmdir '~/\dir'`

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 55
Which of the following commands can perform searches on file contents using regular expressions?

A. `find`

B. `locate`

C. `grep`

D. `reggrep`

E. `pgrep`

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 56
Which of the following commands determines a file's format by using a definition database file which contains information about all common file types?

A. `type`

B. `file`

C. `magic` D. `pmagic`

E. `hash`

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 57
Which of the following commands generates a list of user names from `/etc/passwd` along with their login shell?

A. `column -s : 1,7 /etc/passwd`

B. `chop -c 1,7 /etc/passwd`

C. `colrm 1,7 /etc/passwd`

D. `sort -t: -k1,7 /etc/passwd`

E. `cut -d: -f1,7 /etc/passwd`

Correct Answer: E
Section: (none)
Explanation

Explanation/Reference:

QUESTION 58
If the gzip compressed tar archive `texts.tgz` contains the files `a.txt` and `b.txt`, which files will be present in the current directory after running `gunzip texts.tgz`?

A. Only `a.txt, b.txt,` and `texts.tgz`

B. Only `texts.tar` and `texts.tgz`

C. Only `a.txt.gz` and `b.txt.gz`

D. Only `a.txt` and `b.txt`

E. Only `texts.tar`

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 59
When booting from the hard disk, a computer successfully loads the Linux kernel and initramfs but hangs during the subsequent startup tasks. The system is booted using a Linux based rescue CD to investigate the problem. Which of the following methods helps to identify the root cause of the problem?

A. Using the `dmesg` command from the rescue CD's shell to view the original system's boot logs.
B. Investigating the file `/proc/kmsg` on the computer's hard disk for possible errors.
C. Investigating the file `/var/log` on the computer's hard disk for possible errors.
D. Using `chroot` to switch to the file system on the hard disk and use `dmesg` to view the logs.
E. Rebooting again from the hard drive since the system successfully booted from the rescue CD.

Correct Answer: C
Section: (none)

Explanation

Explanation/Reference:

https://vceplus.com/