101-500.28q

101-500

LPIC-1 Exam 101

Exam A

QUESTION 1

Which of the following is true when a file system, which is neither listed in `/etc/fstab` nor known to system, is mounted manually?

A. systemd ignores any manual mounts which are not done using the `systemctl mount` command
B. The command `systemctl mountsync` can be used to create a mount unit based on the existing mount
C. systemd automatically generates a mount unit and monitors the mount point without changing it
D. Unless a systemd mount unit is created, systemd unmounts the file system after a short period of time
E. `systemctl unmount` must be used to remove the mount because system opens a file descriptor on the mount point

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 2
What does the command mount `--bind` do?

A. It makes the contents of one directory available in another directory
B. It mounts all available filesystems to the current directory
C. It mounts all user mountable filesystems to the user's home directory
D. It mounts all file systems listed in `/etc/fstab` which have the option `userbind` set
E. It permanently mounts a regular file to a directory

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
QUESTION 3
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 4
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 5

In order to display all currently mounted filesystems, which of the following commands could be used? (Choose two.)

A. `cat /proc/self/mounts`

B. `free`

C. `lsmounts`

D. `mount`

E. `cat /proc/filesystems`

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 6

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: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 7

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 8
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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 9
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 10
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 11
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 12

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: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 13

Which of the following directories on a 64 bit Linux system typically contain shared libraries? (Choose two.)

A. `~/.lib64/`

B. `/usr/lib64/`

C. `/var/lib64/`

D. `/lib64/`

E. `/opt/lib64/`

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 14

Which of the following files exist in a standard GRUB 2 installation? (Choose two.)

A. `/boot/grub/stages/stage0`

B. `/boot/grub/i386-pc/1vm.mod`

C. `/boot/grub/fstab`

D. `/boot/grub/grub.cfg`

E. `/boot/grub/linux/vmlinuz`

Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 15
Which of the following commands installs all packages with a name ending with the string `foo`?

A. `zypper get "*foo"`

B. `zypper update "foo?"`

C. `zypper force "foo*"`

D. `zypper install "*foo"`

E. `zypper add ".*foo"`

Correct Answer: D

Section: (none)
Explanation

Explanation/Reference:

QUESTION 16
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 17
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

QUESTION 18
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 19
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: AE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 20

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 21

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 22

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 23
Given the following input stream:
`txt1.txt`
`atxt.txt`
`txtB.txt`
Which of the following regular expressions turns this input stream into the following output
stream? `txt1.bak.txt atxt.bak.txt txtB.bak.txt`

A. `s/^.txt/.bak/`

B. `s/txt/bak.txt/`

C. `s/txt$/bak.txt/`

D. `s/^txt$/.bak^/`

E. `s/[.txt]/.bak$1/`

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 24
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: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 25
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 26
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 27
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: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 28
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: