

117-201: LPI Level 2 Exam 201

1

You find that you are spending a lot of money on backup media. Your current backup schedule is a full backup every week (with the tapes retained for a year) and an incremental backup every night (with the tapes retained for six months). Which of the following would be the best way to reduce media spending without making your backups less useful?

(Please select the ONE BEST choice.)

- A. Do a full backup only once a month.
- B. Reduce the number of incremental backups to 2 per week.
- C. Reduce the retention period of your incremental backups to 30 days instead of 6 months.
- D. Reduce the retention period of your full backups to 2 months.
- E. Stop backing up the OS directories on your clients. Ex: /usr /var

2

You want to keep a reference copy of the installation CD-ROM on your hard disk. After creating an ISO image of the disc using `dd(1)`, you need to add a new entry to `/etc/fstab` to automatically mount the image at startup. Assuming your ISO image is in `/usr/local/lib/dist.iso` and you want it mounted on `/mnt/dist`, which of the following is the correct entry?

(Please select the ONE BEST choice.)

- A. `/usr/local/lib/dist.iso /mnt/dist iso9660 defaults 0 1`
- B. `/usr/local/lib/dist.iso /mnt/dist iso9660 ro,loop 0 0`
- C. `/mnt/dist /usr/local/lib/dist.iso iso9660 noauto,ro,loop 1 0`
- D. `/mnt/dist /usr/local/lib/dist.iso iso9660 ro,loop 0 1`
- E. `/mnt/local/lib/dist.iso /iso9660 /mnt/dist defaults,ro 0 2`

3

You have set up an NFS server to export the filesystem `/mnt/cdrom`, but users complain that they continue to get the error message "mount: RPC: Unable to receive; errno = Connection refused". Which of the following should you use to diagnose the problem?

(Please make TWO selections.)

- A. Check that the `nfs-access.o` module is compiled into the kernel
- B. Check that `portmap` is properly configured in `xinetd`
- C. Check `/etc/hosts.allow` and `/etc/hosts.deny` to ensure NFS access is not being locked out, and fix the problem if needed
- D. Check that `xinetd` is running, and restart it if needed
- E. Check that NFS is running and if not (re)start it

4

The kmod kernel thread uses `/sbin/modprobe` to automatically load modules. If you need to use a modprobe from a different directory (`/usr/local/sbin/modprobe`, for example), what should be done to make sure kmod continues to work?

(Please select the ONE BEST choice.)

- A. Reboot the system. kmod searches your PATH at bootup.
- B. Write the full path to modprobe into `/proc/sys/kernel/modprobe`.
- C. Write a 0 to `/proc/sys/kernel/kmod`, forcing kmod to search a compiled in PATH.
- D. Update the kernel Makefile and recompile.
- E. Run `kmod -u` with the full path to modprobe.

5

On an ext2 filesystem, a running daemon has created a large logfile that is beginning to fill the disk. After deleting the file with an `"rm -f"` command as root, `"df"` shows that the space is still in use even though the file is not shown using `"ls"`. To reclaim this space you must:

(Please select the ONE BEST choice.)

- A. remount the filesystem
- B. flush the disk cache
- C. restart the daemon
- D. create a new file with the same name
- E. delete the inode entry in `/proc`

6

The utility used to set the number of superblocks allocated on an ext2 filesystem is:

(Please select the ONE BEST choice.)

- A. `tune2fs`
- B. `mke2fs`
- C. `e2fsck`
- D. `mount`
- E. `hdparm`

7

The scripts that are executed in runlevel 3 are commonly stored in what directory?

(Please type your answer in the text field below.)

8

While trying to extend a logical volume under LVM, you find that the volume group is also out of disk space, but that `/dev/hdd1` is available for addition to the group. What do you need to do before adding the disk to the volume group?

(Please select the ONE BEST choice.)

- A. `vgchange volname`
- B. `lvcreate /dev/hdd1`
- C. `lvchange volname /dev/hdd1`
- D. `pvcreate /dev/hdd1`

9

You are configuring a Samba server as part of a Microsoft Networking domain. You NEVER want this Samba server to be the master browser. Which line should you add to `smb.conf`?

(Please select the ONE BEST choice.)

- A. `os level = 0`
- B. `os level = 1`
- C. `os level = -1`
- D. `os level = 20`
- E. `os level = 65535`

10

Which of the following file systems cannot be exported on kernel 2.2.x and kernel 2.4.x?

(Please make TWO selections.)

- A. `ncpfs`
- B. `ext2`
- C. `ext3`
- D. `minix`
- E. `smbfs`

11

When installing a module, `modprobe` calls what command to load kernel modules?

(Please type your answer in the text field below.)

12

You boot up the system and expect to see the LILO prompt. Instead of the LILO prompt, you see 010101010 scrolling down the screen. What is the cause of this?

(Please select the ONE BEST choice.)

- A. this happens because LILO was incorrectly installed.
- B. this is caused by a bad BIOS LBA translation to LILO.
- C. this happens because the kernel is unable to load the root partition.
- D. this happens because Normal mode was selected on an LBA disk.
- E. this happens because LILO was unable to find the kernel.

13

You try to eject a CD-ROM and find that the drive door is locked. You remember that the disc is mounted, and attempt to unmount it with the command "umount /mnt/cdrom". The system responds with the message "/mnt/cdrom: busy", indicating that the disc is being used by some running process. Which of the following commands, with the appropriate options and parameters, will list only the PIDs currently using the device?

(Please select the ONE BEST choice.)

- A. fuser
- B. ps
- C. ls
- D. showmount
- E. find

14

After booting your machine off of a rescue floppy or CD, you remount your root "/" filesystem in read-write mode. What should you do if you've made changes to the root "/" filesystem, before you shut the machine down?

(Please select the ONE BEST choice.)

- A. Run sync
- B. Remount the root "/" filesystem in read only mode.
- C. Run lilo.
- D. run fsck on the root filesystem "/"
- E. Do nothing and just shutdown.

15

To generate fresh binary packages from package.src.rpm, you would run _____

(Please type your answer in the text field below.)

16

What entry can you add to `syslog.conf` file to have all syslog messages generated by your system go to virtual console 12?

(Please select the ONE BEST choice.)

- A. `*.* /dev/tty12`
- B. `/var/log/messages | /dev/tty12`
- C. `| /dev/tty12`
- D. `syslog tty12`
- E. `mail.* /dev/tty12`

17

What is the process ID number of `init`? (Please select the ONE BEST choice.)

- A. `-1`
- B. `1`
- C. `2`
- D. `it varies`
- E. `it is set to the current run level`

18

When permanently mounting a specific NFS filesystem to a host's local filesystem, what method is recommended?

(Please select the ONE BEST choice.)

- A. `edit /etc/fstab`
- B. `use the mount command on the share with the remount option`
- C. `recompile the kernel with NFS mount options listed in the source`
- D. `edit the /etc/filesystems to include NFS`
- E. `edit the nsswitch.conf`

19

For audit reasons you have been asked to log all remote connections to your system to the log file `/var/log/connections`. Pick the correct `syslog.conf` configuration entry.

(Please select the ONE BEST choice.)

- A. `connection.info /var/log/connections`
- B. `connect.* /var/log/connections`
- C. `*.daemon /var/log/connections`
- D. `info.daemon /var/log/connections`
- E. `daemon.info /var/log/connections`