LPI Certification

Exam 201-450
LPI Level 2 Certification Part 1

Version 12.35 (162 Questions)

NO.1 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

NO.2 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

NO.3 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

NO.4 In the following output from top, which processes contribute to the percentage of time that the CPU spends in the state of wa?

Tasks: 193 total, 1 running, 190 sleeping, 2 stopped, 0 zombie

Cpu(s): 0.5%us, 0.3%sy, 0.0%ni, 98.2%id, 1.0%wa, 0.0%hi, 0.0%si, 0.0%st

A. Processes waiting for user interaction.

B. Processes that were already closed and are waiting to be launched again.

C. Processes that have not been scheduled yet because they haven't been fully loaded into RAM or are in swap.

D. Processes waiting for IO operations to complete.

Answer: D

NO.5 CORRECT TEXT

What is the device name for the first SCSI tape drive on a system when used without automatic rewinding after each write operation? (Please specify the full path to the device.)

Answer: /dev/nst0

NO.6 CORRECT TEXT

Which command is used to create a ISO9660 filesystem? (Specify ONLY the command without any path or parameters.)

Answer: mkisofs, genisoimage

NO.7 In the following output, the load averages represent the system load averages for what time frames?

12:10:05 up 18 days, 19:00, 2 users, load average: 0.47, 24.71, 35.31

A. 1, 5 and 15 minutes

B. 1, 15 and 30 minutes

C. 1, 15, and 30 seconds

D. 15, 30 and 60 minutes

E. 15, 30 and 60 seconds

Answer: A

NO.8 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

NO.9 Which of the following tools are used to measure memory usage? (Choose THREE correct answers.)

A. mpstat

B. pstree

C. sar

D. top

E. vmstat

Answer: C,D,E

NO.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

NO.11 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

NO.12 Which of the following commands erases 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

NO.13 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

NO.14 A correctly formatted entry has been added to /etc/hosts.deny to prevent certain clients
from connecting to a service but this is having no effect. What could be the cause of this?
(Choose TWO correct answers.)
A. tcpd needs to be sent the HUP signal.
B. The service needs to be restarted.
C. The machine needs to be restarted.
D. There is a conflicting entry in /etc/hosts.allow.
E. The service does not support tcpwrapper.
Answer: D,E

NO.15 What information is found in the following excerpt from the file /proc/mdstat? (Choose two.)

```
Personalities : [raid6] [raid5] [raid4]

md0 : active raid5 sdb1[3] (S) sdc1[7] sda1[4] (S) sdd1[6] sde1[5]

    1046528 blocks super 1.2 level 5, 512k chunk, algorithm 2 [3/2] [UU_]

    [===>................] recovery = 15.9% (83808/523264) finish=0.1min
speed=71880K/sec

unused devices: <none>
```

A. One of the disks in /dev/md0 has failed and a spare disk is used to recreate full redundancy
B. The spare disk /dev/sda1 is used to restore full redundancy after the current recovery
C. The information [UU_] means, that the raid is missing one disk and is not fully redundant
D. The device is using version 1.2 metadata to allow LILO and GRUB Legacy to use
/dev/md0 as the boot partition. This would not have been necessary with GRUB2
E. The information [3/2] means that 3 RAID disks belong to the array and 2 disks are spare.
Together they equal the number of available disks
Answer: A,C

NO.16 CORRECT TEXT
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.)
Answer: /usr/src/linux, /usr/src/linux/

NO.17 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

NO.18 CORRECT TEXT
Which command turns an existing ext2 filesystem non-destructively into an ext3 filesystem? (Specify ONLY the command without any path or parameters.)
Answer: /sbin/tune2fs, tune2fs

NO.19 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

NO.20 CORRECT TEXT
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)
Answer: device.map

NO.21 Which archive format is used to create an initramfs image?
A. gzip
B. tar
C. RAR
D. cpio
E. bzip2
Answer: D