CS242

Lab

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Answers For Starter

1. The configuration file, by default is read by LILO. The configuration file tells LILO where it should place its boot loader. In general, you can either specify the master boot record (MBR) on the first physical disk (/dev/hda) or the root partition of your Linux installation (/dev/hda1 or /dev/hda2).

If you have another operating system installed in your hard drive, it is better to install Lilo to the root partition instead of the MBR. In this case, you must mark the partition as `bootable` using the `a` command of fdisk or the `b` command of cfdisk. If you don't overwrite the master boot sector you'll find it easier to uninstall Linux and Lilo if needed.

- 2. Configuration file for Grub2
 /boot/grub/grub.cfg
 And for Grub Legacy is
 /boot/grub/menu.lst
- 3. We can see default run level using

 cat /etc/init/rc-sysinit.conf

 It's specified by

 env DEFAULT_RUNLEVEL=2

 in that file. Later using

 telinit "\${DEFAULT_RUNLEVEL}\"

 run level is changed by the same file.
- 4. *init* can be used to change runlevel. Example. *init* 6 (superuser)
- 5. We need to change password using sudo passwd root
 and unlock root user by
 sudo passwd -u root

```
gagan@gagan-PC:~$ sudo passwd -u root
[sudo] password for gagan:
passwd: unlocking the password would result in a passwordless account.
You should set a password with usermod -p to unlock the password of this account.
gagan@gagan-PC:~$ sudo passwd root
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
gagan@gagan-PC:~$ su rootserted for scheduling at
Password:
root@gagan-PC:/home/gagan# s^C
```

6. We can execute

echo -e "`date`\n\n`who`\n" >> midnight.log;
To append in previous log file.

This command can be inserted for scheduling at midnight.

crontab -e

Then Appending to it

0 0 * * * echo -e "`date`\n\n`who`\n" >>
midnight.log

```
e Sat Jan 16 00:00:01 IST 2016
                     2016-01-15 07:58 (:0)
2016-01-15 14:16 (:0)
2016-01-15 19:31 (:0)
2016-01-15 14:17 (:0)
2016-01-15 14:41 (:0)
        pts/2
         pts/4
gagan
gagan pts/8
gagan pts/9
gagan
-e Sun Jan 17 00:00:02 IST 2016
                       2016-01-16 23:47 (:0)
gagan
gagan pts/2
                      2016-01-16 23:47 (:0)
gagan
-e Mon Jan 18 00:00:01 IST 2016
gagan
       pts/1
gagan
gagan pts/2
                      2016-01-17 23:12 (:0)
                       2016-01-17 23:35 (:0)
gagan
        pts/6
-e Tue Jan 19 00:14:41 IST 2016
       pts/1
gagan pts/2
                      2016-01-18 21:19 (:0)
gagan pts/7
         pts/8
```

Output of cat midnight.log For Sample times.

- 7. Log Files
 - 1. /var/log/dmesg General Message Stuff
 - 2. /var/log/auth.log Authentication Log
 - 3. This can be used to find only CRON log.
 cat /var/log/syslog | grep CRON
 - 4. /var/log/boot.log and /var/log/dmesgBoot
 Info for boot log
 - 5. /var/log/wtmp

Sample Output of C Program

```
## Home: /a.out
gagan@gagan-PC:~$ ./a.out
Processor 0
Clock Speed : 1899.925Mhz
Cores : 2Mhz
Cores installing a boot loader into "the master boot
Processor 1 artition."
It conf Clock Speed is 1898.515Mhz Legacy bootloader and the Cores : 2Mhz
Cores : 2Mhz
(Give absolute paths.)
Processor 2 - a Linux system determined? i.e., what file specifies it
Clock Speed : 1900.000Mhz
Led? (A'Cores Standard II: 2Mhz Ed system.)
Le used to change runlevels to some runlevel I? (Assume Processor 3
System Clock Speed : 1900.296Mhz
Let to do Cores nvert Ubun: 2Mhz llow login as root?
Remail Version

Tall activities by storing information in log files. Give the log file
```