Cron

- It is used to schedule recurring events
- Use crontab to edit, install and view job schedules

Syntax:

crontab [-u user] file crontab [-l:-r|-e]

- -l lists crontab jobs
- -r remove crontab
- -e edits crontab jobs using \$EDITOR

Note

- cron jobs are stored in /var/spool/cron
- daemon for crontab: crond

Valid fields

Minute	Hour	Day of Month	Month	Day of week
0-59	0-23	1-31	1-12 or jan, Feb	0 or 7 = Sunday,1=Monday,

- Multiple values may be separated by commas
- * indicates all valid values
- For further help:

man 5 crontab

Controlling access to cron

List of users to be allowed or denied will be listed in following files /etc/cron.allow and /etc/cron.deny respectively.

Examples

1. Cron job which will run du —h and saves output to /tmp/myoutputfile in every minute.

```
cat > mycronjob

1 * * * du -h >>/tmp/myoutputfile

crontab mycronjob
```

2. Cron job which will run du —h and saves its output to /tmp/myoutputfile in every 1st minute of hour alternating in 2 hours.

```
cat > mycronjob

1 */2 * * * du —h >>/tmp/myoutputfile

[press Ctrl+d to save and exict form cat mode]

crontab mycronjob
```

3. Cron job to do task in every 1st day of 4th week of the month on time of 5:00 PM

To execute script files in a particular directory called /etc/rc.d/htb

```
vi /etc/crontab

path=<...path in the file currently>:/etc/rc.d/htb

0 17 1 * root run-parts /etc/rc.d/htb
```

System logging

- To start system logging #service syslog start
- Configuration file /etc/syslog.conf
- Information files

/var/log/messages contains all log inforation /var/log/dmesg contains kernel related logs /var/log/mail contains mail realated logs and so on.

Note: use tail command with feeding option to analyze current activities in particular program. For instance, use following command when even you got any error occurs in hosting website in apache:

tail -f /var/log/httpd/error.log

Format of log:

Date/time:application [PID] messages

Further study:

http://www.cyberciti.biz/faq/how-do-i-add-jobs-to-cron-under-linux-or-unix-oses/ https://access.redhat.com/documentation/en-US/Red Hat Enterprise Linux/6/html/Deployment Guide/ch-Automating System Tasks.html