There are two utilities available for this purpose

- corn: schedule the specified job repeatedly for specific time. We can say repeated job
- at: can be scheduled for job which need to execute only once. We can say onetime job

Important Files related to "cron" and "at "

- /etc/crontab is the file which stores all scheduled jobs
- /etc/cron.deny is the file used to restrict the users from using cron jobs.
- /etc/cron.allow is used to allow only users whose names are mentioned in this file to use cron jobs. (this file does not exist by default)
- /etc/at.deny same as cron.deny for restricting at jobs
- /etc/at.allow same as cron.allow for allowing user to use at jobs.

Crontab File Format: -

Options used with each field of crontab file: -

Options	Explanation
*	It is treated as a wild card, which means any possible value
*/5	It is treated as every 5 minutes, hours, days, or months. Replacing 5 with another numerical value will change this option
2,4,6	Treated as an OR, so if placed in the hours field, which means at 2,4 or 6 o'clock
9-15	Treats for any value between 9 and 15. So if placed in day of month filed then it means it will be days 9 through 15 or if put in hour then it would be between 9 to 15 hr.

Check the console on which you are working by following command

[root@vivek /]# tty /dev/pts/0 [root@vivek /]#

Note: /dev/pts/0 is the console address

Schedule the task by editing the crontab file as shown

[root@vivek /]# crontab -e

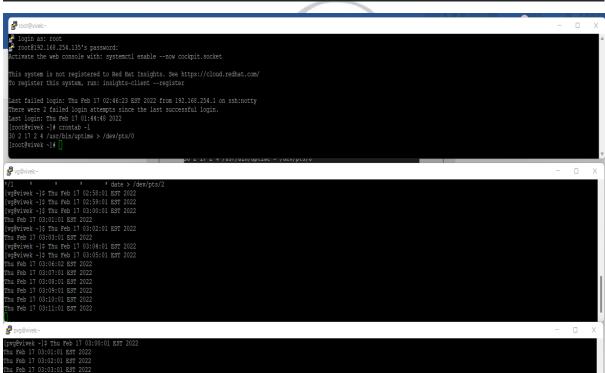
[root@vivek /]# systemctl reload crond

Output

[root@vivek /]# 02:30:01 up 1:10, 1 user, load average: 0.01, 0.01, 0.00

Same more

1 * * * date > /dev/pts/0



Output

```
meeting at 4 pm today
Thu Feb 17 03:45:01 EST 2022
[pvg@vivek ~]$
```

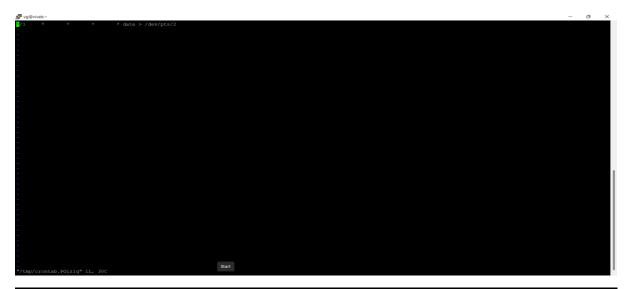
```
create /etc/cron.allow
[root@vivek /]# vim /etc/cron.allow
```



Output

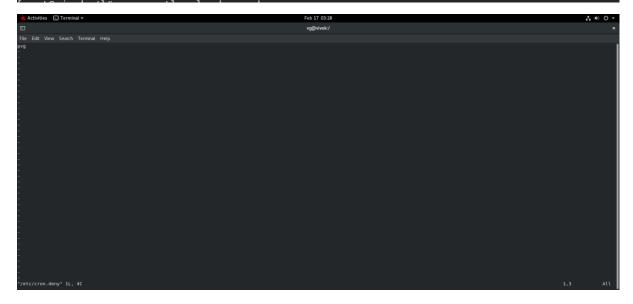
```
[vg@vivek ~]$ crontab -e
```

Allow to edit option



Create /etc/cron.deny

[root@vivek /]# vim /etc/cron.deny



Output

```
[pvg@vivek ~]$ crontab -e
You (pvg) are not allowed to use this program (crontab)
See crontab(1) for more information
[pvg@vivek ~]$ Thu Feb 17 03:29:01 EST 2022
```

Crontab not allow edit file but schedule run automatic