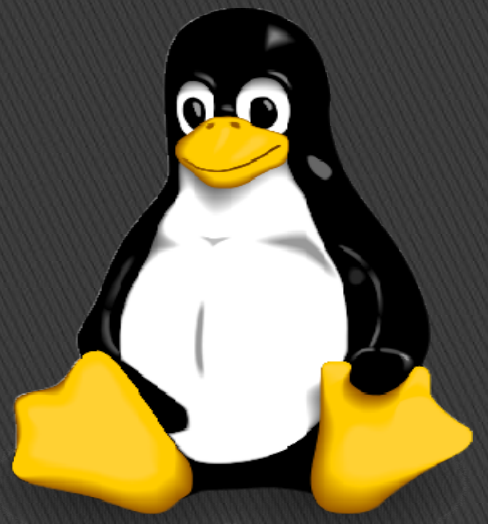
Job Automation

What is job automation

Job automation allow us perform task automatically in OS by using tools.

This feature is very useful for administrator to assign task to OS whenever he is not present or perform daily basis work.



Two type of job automation

1. at
2. crontab

1.at

at command is used to execute job only one time.

For set job with at command

#date

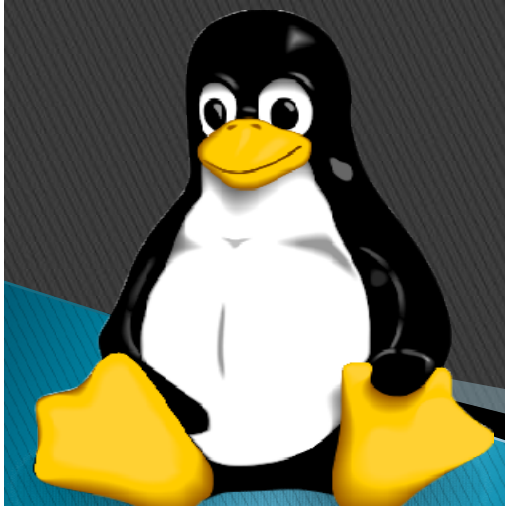
#at 8:10 AM

at>useradd sachin
at>

Ctrl+d (write & quit)

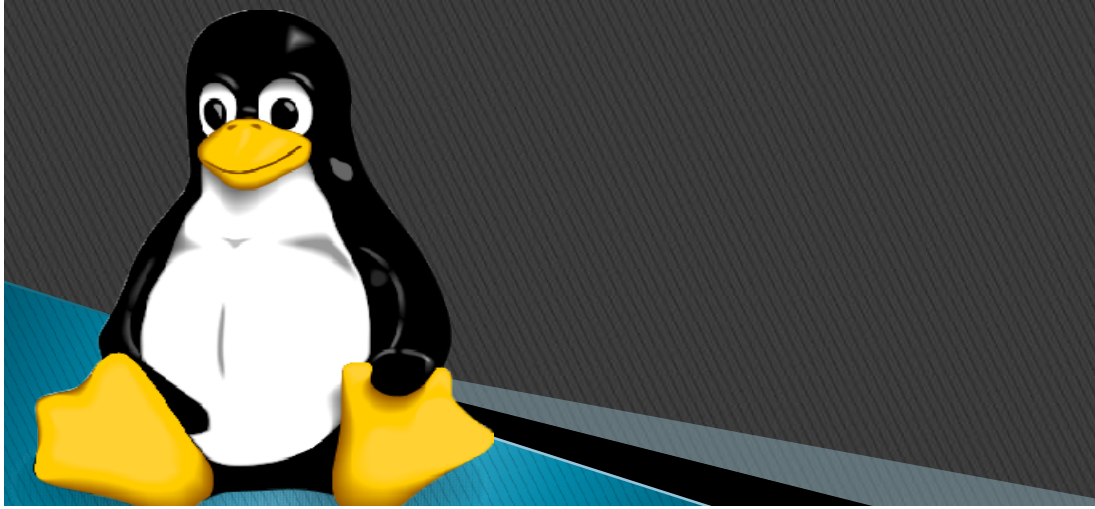
For show pending at job

#atq



For remove at job

#atrm 2

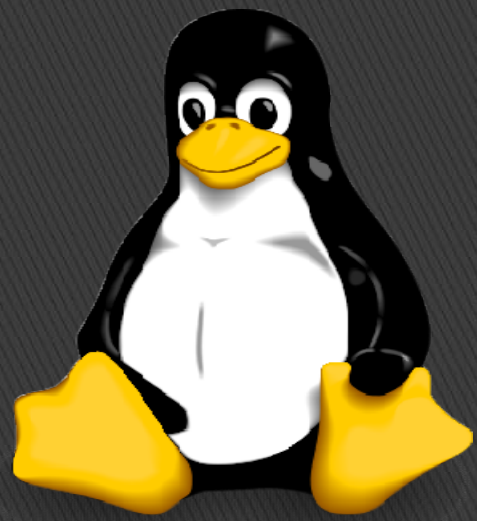


For restrict user from accessing at

#vim /etc/at.deny

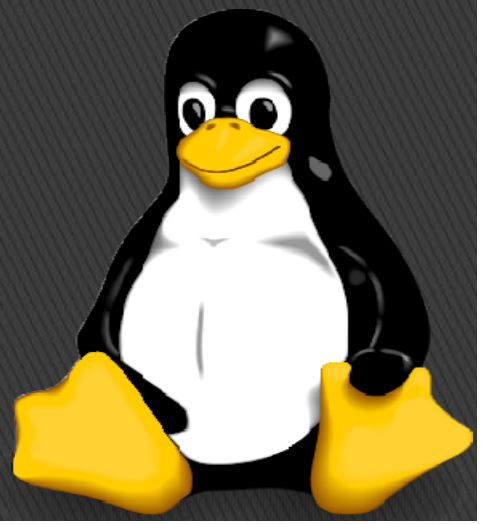
Ajay (add here user name)

:wq (write&quit)



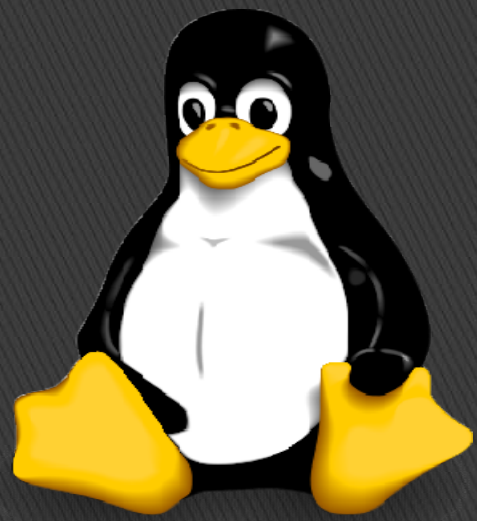
2. crontab

Crontab command is use for to execute job multiple time.



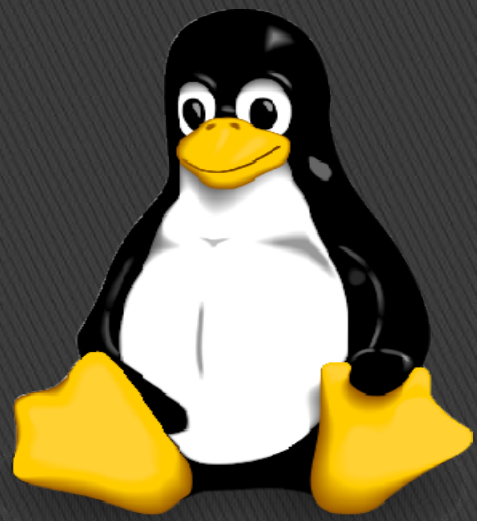
For start crond service

systemctl start crond



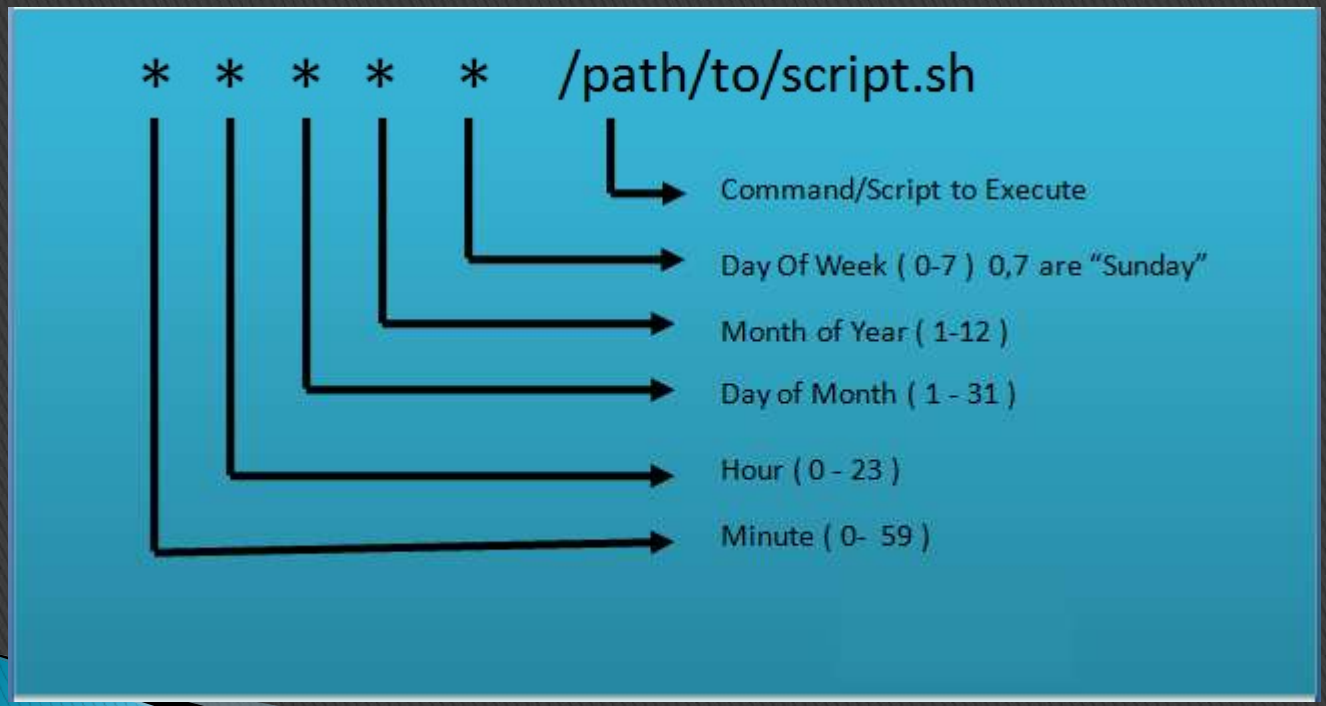
For enable crond service (permanent on)

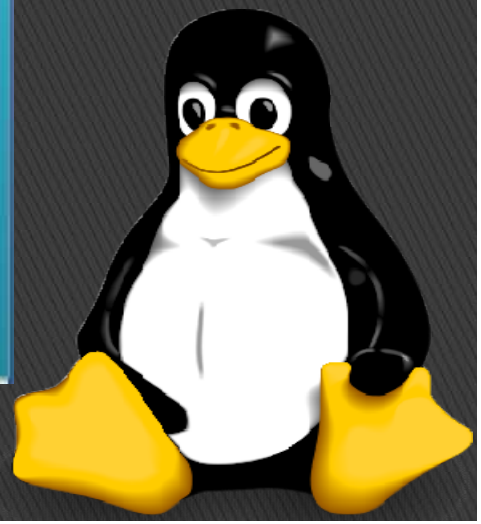
```
# systemctl        enable        crond
```



For set cron jobs

#crontab -e

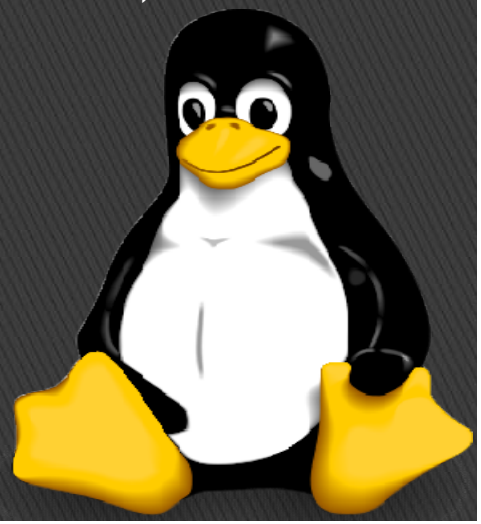




For set cron jobs

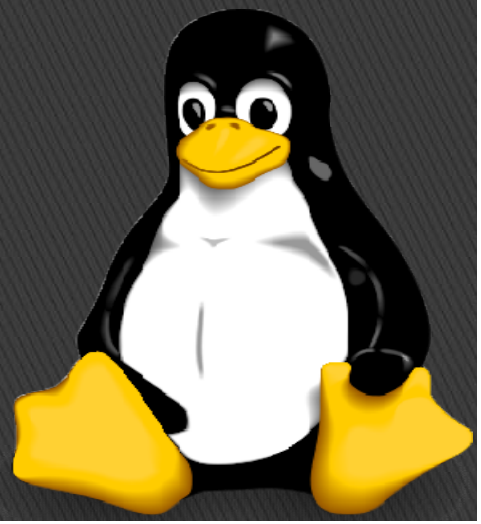
#crontab -e

* field*	meaning	allowed values
# -------	----------	----------
* 1	minute	0-59
* 2	hour	0-23
* 3	day of month	1-31
* 4	month	1-12 (or names, see below)
* 5	day of week	0-7 (0 or 7 is Sun, or use names)



For show cron jobs of current user

```
# crontab        -l
```



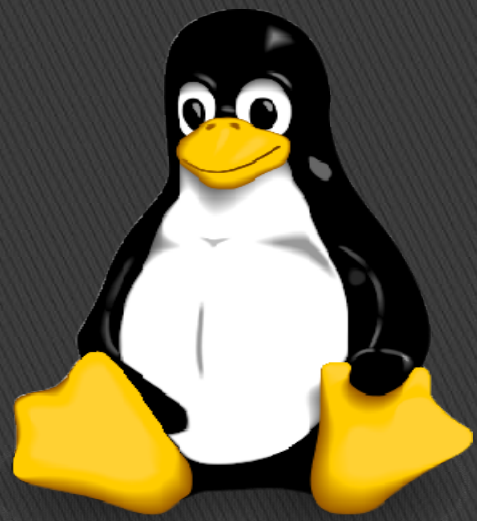
For remove cron jobs

crontab -r

Or

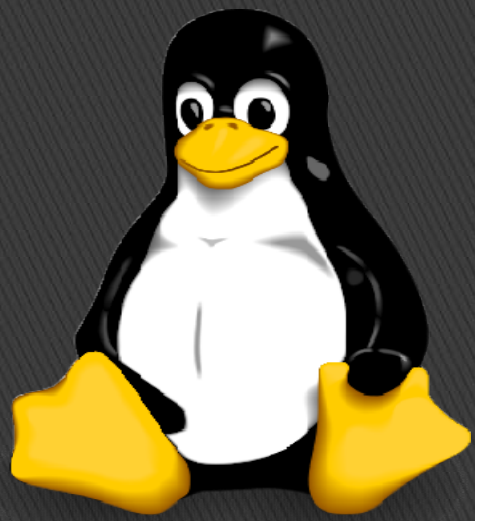
Go to the crontab file and remove job line

#crontab -e



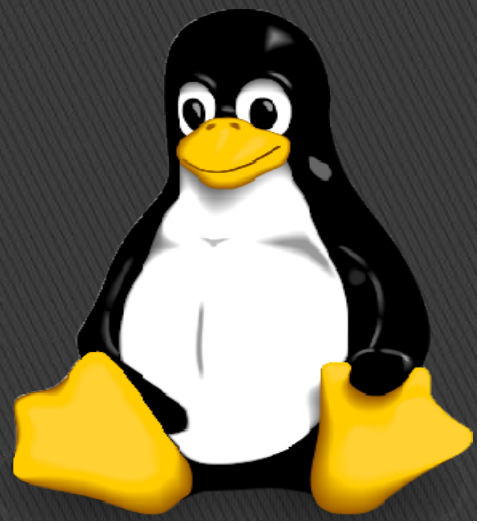
For set cron job to other user

crontab -u ajay -e



For show cron job other user

crontab -u ajay -l

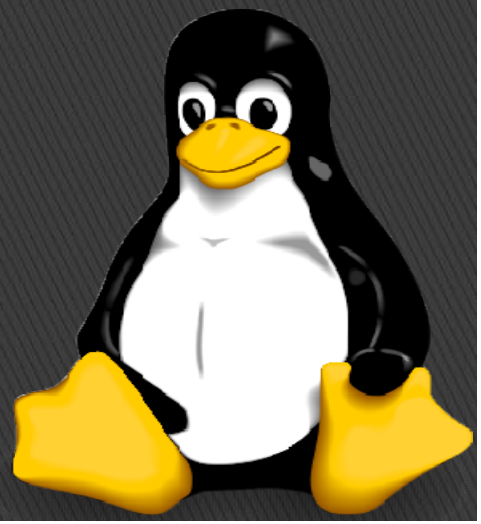


For restrict user from crond service

#vim /etc/cron.deny

For check crontab log file

#tail -f /var/log/cron



Exam Que on Crontab

Create cron job /bin/echo hiya for user harry. Job should be run every day at 14.50

Ans:

```
#crontab    -u    harry    -e
50   14    *     *     *     /bin/echo hiya
:wq
```