

. CRON JOB

Setting up a cron job in Ubuntu 22.04 (or any version) involves a few simple steps. A cron job is a scheduled task that runs automatically at specific intervals or times. Here's how you can set up a cron job:

- `sudo apt update`
- `sudo apt install cron`
- `sudo systemctl start cron`
- `sudo systemctl enable cron`
- `sudo systemctl status cron.service`

```
himanshu@123:~$ sudo systemctl status cron.service
[sudo] password for himanshu:
● cron.service - Regular background program processing daemon
   Loaded: loaded (/lib/systemd/system/cron.service; enabled; vendor preset: >
   Active: active (running) since Tue 2023-08-01 15:39:18 IST; 49min ago
     Docs: man:cron(8)
    Main PID: 745 (cron)
      Tasks: 1 (limit: 9124)
    Memory: 468.0K
       CPU: 23ms
    CGroup: /system.slice/cron.service
            └─745 /usr/sbin/cron -f -P

Aug 01 15:39:18 123 cron[745]: (CRON) INFO (pidfile fd = 3)
Aug 01 15:39:18 123 cron[745]: (CRON) INFO (Running @reboot jobs)
Aug 01 15:39:18 123 systemd[1]: Started Regular background program processing d>
Aug 01 16:09:01 123 CRON[18789]: pam_unix(cron:session): session opened for use>
Aug 01 16:09:01 123 CRON[18790]: (root) CMD ( [ -x /usr/lib/php/sessionclean ]>
Aug 01 16:09:01 123 CRON[18789]: pam_unix(cron:session): session closed for use>
Aug 01 16:17:01 123 CRON[18949]: pam_unix(cron:session): session opened for use>
Aug 01 16:17:01 123 CRON[18950]: (root) CMD ( cd / && run-parts --report /etc>
Aug 01 16:17:01 123 CRON[18949]: pam_unix(cron:session): session closed for use>
himanshu@123:~$
```

- Create a cron job: To create a cron job, you need to edit the crontab file. The crontab file contains the list of scheduled tasks. Each user has their own crontab file, so you'll need to edit the relevant one.

- `crontab -e`

```
GNU nano 6.2 /tmp/cr
# Edit this file to introduce tasks to be run by cron.
#
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
#
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').
#
# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.
#
# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).
#
# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
#
# For more information see the manual pages of crontab(5) and cron(8)
#
# m h dom mon dow   command
10 18 * * * /bin/sh /home/himanshu/Desktop/abc.sh
```

```
himanshu@123:~$ crontab -e
crontab: installing new crontab
himanshu@123:~$
```

- Verify the cron job: After saving the crontab, the cron service will automatically pick up the changes. You can check the list of scheduled cron jobs for the current user with the command:

- `crontab -l`

```

himanshu@123:~/Desktop$
himanshu@123:~/Desktop$
himanshu@123:~/Desktop$ chmod u+x abc.sh
himanshu@123:~/Desktop$
himanshu@123:~/Desktop$
himanshu@123:~/Desktop$
himanshu@123:~/Desktop$ ls
abc.sh  archive.tgz  folder1  git  grep  Internship.AD  JS
himanshu@123:~/Desktop$ crontab -l
# Edit this file to introduce tasks to be run by cron.
#
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
#
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').
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# For more information see the manual pages of crontab(5) and cron(8)
#
# m h  dom mon dow   command
10 18 * * * /bin/sh /home/himanshu/Desktop/abc.sh
himanshu@123:~/Desktop$ crontab -e
No modification made
himanshu@123:~/Desktop$

```

