## **Job Scheduling**

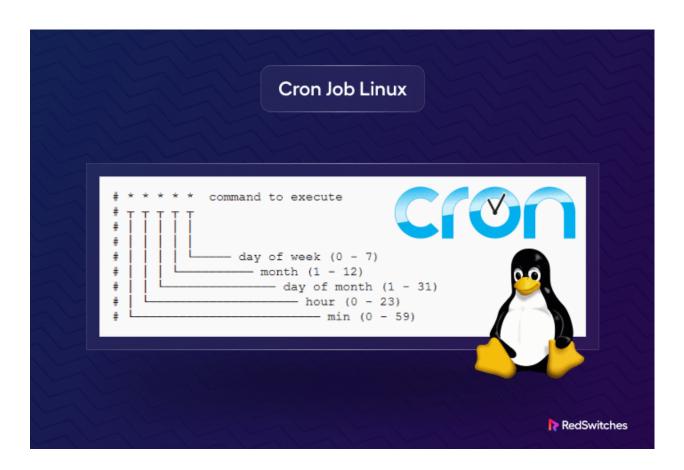


## What does Job Scheduling mean in Linux?

Job scheduling is a feature of Linux operating systems that allows users to schedule tasks to run automatically at specified times or intervals. This is done using a daemon called cron, which runs in the background and executes tasks based on entries in a configuration file called crontab. It's help to get backup of files and directories.

There is few methods in Linux to Schedule Job

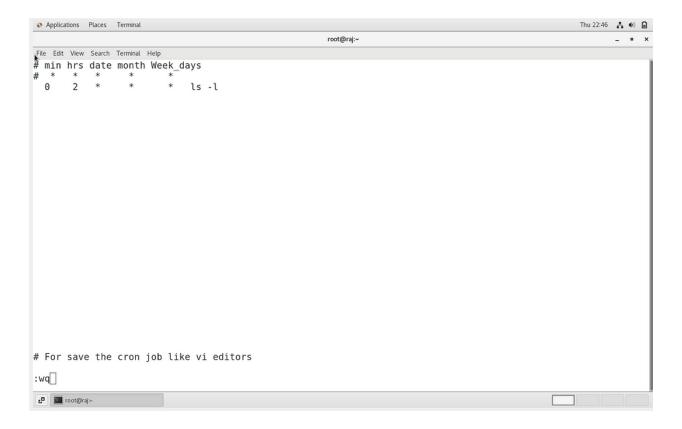
- Crontab: which is short for cron table, is a file containing the schedule of various cron entries that should be run at specified times. Another way of describing crontab is as a utility that enables tasks to run automatically at regular intervals in the background by the cron daemon. A cron job is a command run by the cron daemon at regularly scheduled intervals. To submit a cron job, specify the crontab command with the -e flag. The crontab command invokes an editing session that allows you to create a crontab file. In a cron tab there are 5 expression denotes by using \*.
- Cronjob Syntax :



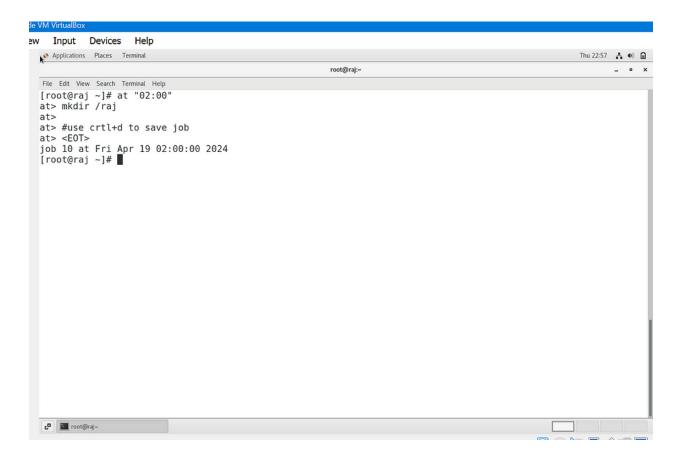
## There is Few option in Crontab Command

- 1. **c**rontab -e: It is help to create or modify cronjobs
- 2. crontab -I: It use for list cronjobs
- 3. crontab -r: It use for remove all cronjobs

**Example of crontab command in Linux:** Suppose you want to schedule a job that will run the Is -I command every day at 2 PM, you can use the crontab command as follows. follow the bellow steps is run crontab -e command then open vi file editor tab as follow as



- at: at is single time execution command. at command Queue a task in "/var/spool/at" directory and execute when it's schedule time. After execution the task is autoremove from queue
- Example of at command: Suppose if you want to schedule a job at 2 PM, you can use the 'at' command as follows



 atq — atq command use for list all jobs with job number scheduled by at command

• **atrm** — this command use for remove jobs by using there job id. Use of atrm command as follows

```
atrm 10
```