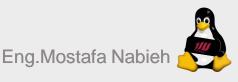# Linux

Linux Course

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DAY 4 CONTENTS
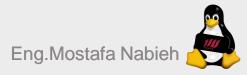
- Cron, Crond, Crontab
- Scheduling jobs
- Using Crontab with Ubuntu

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Job scheduling

- Schedule jobs to run automatically at certain times

  Load script at midnight every night
  Backup script to run every Sunday at 2 AM

- Cron allows you to automate such tasks

What are cron, crond, and crontab?

- Cron is a service that runs jobs
- Crond interprets "crontab files" and submits jobs to Cron
- A crontab is a table of jobs and schedule data
- Crontab command invokes text editor to edit a crontab file
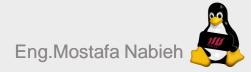
Scheduling cron jobs with crontab

```
$ crontab -e     # opens editor
```

Job syntax:

      m h dom mon dow <u>command</u>
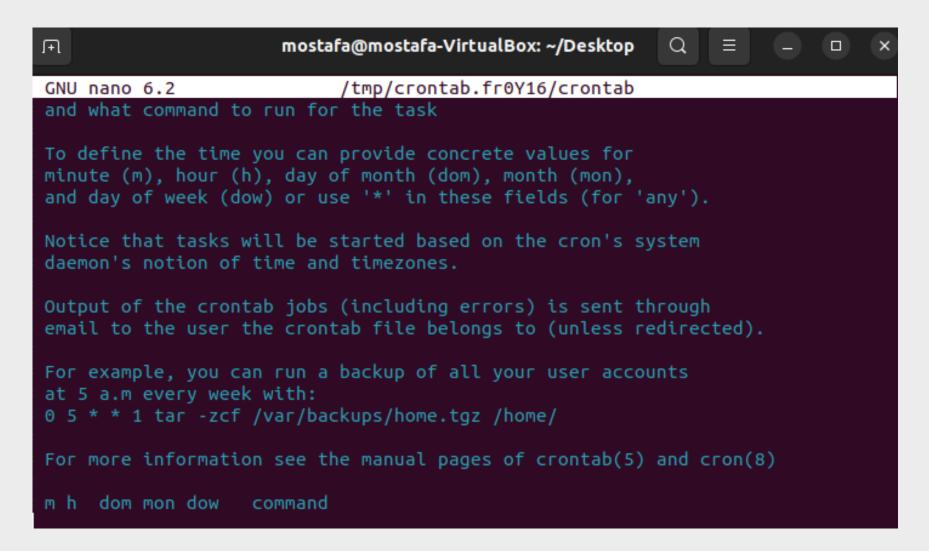
- Example job:

```
30 15 * * 0 date >> sundays.txt
```

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Cron Jobs

Scheduling Cron jobs with crontab


```
mostafa@mostafa-VirtualBox: ~/Desktop

  GNU nano 6.2                    /tmp/crontab.fr0Y16/crontab
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
```

Entering Jobs

```
# 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
30 15 * * 0 date >> path/sundays.txt
```

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Viewing and removing Cron jobs

```
# 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
30 15 * * 0 date >> path/sundays.txt
```

```
$ crontab -e  # add/remove cron job with editor
```

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Thank you