

Objectives

After completing this lab you will be able to:

- List existing cron jobs
- Add a cron job
- Remove cron jobs

Field	Allowed values
minute	0-59
hour	0-23, 0 = midnight
day	1-31
month	1-12
weekday	0-6, 0 = Sunday

The `-l` option of the `crontab` command prints the current crontab.

```
theia@theia-rajendraabro:/home/project$ crontab -l  
no crontab for theia
```

```
theia@theia-rajendraabro:/home/project$ crontab -e
```

```
/tmp/crontab.kbG7m4/crontab *  
# 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 cr>  
#  
# m h dom mon dow command  
0 21 * * * echo "Welcome to cron">>> /tmp/echo.txt
```

```
^G Help      ^O Write Out ^W Where Is ^K Cut  
^X Exit      ^R Read File ^\ Replace ^U Paste
```

```
Ctrl +X , y  
File Name to Write: /tmp/crontab.oYNlrg/crontab  
no crontab for theia - using an empty one.  
Do you want to retry the same edit? (y/n) y  
crontab: installing new crontab  
theia@theia-rajendraabro:/home/project$ crontab -e  
no crontab for theia - using an empty one  
crontab: installing new crontab
```

3.2. Schedule a shell script

Step 2: Give the file name as `diskusage.sh` and click 'OK'

Step 3: Save the following commands into the shell script:

```
#!/bin/bash
```

- `# print the current date time`
- `date`
- `# print the disk free statistics`
- `df -h`

Step 4: Save the file using the **File->Save** menu option.

Verify that the script is working:

```
theia@theia-rajendraabro:/home/project$ chmod u+x diskusage.sh
```

```
./diskusage.sh
```

```
Wed Dec 24 12:44:49 EST 2025
```

Filesystem	Size	Used	Avail	Use%	Mounted on
overlay	98G	52G	42G	56%	/
tmpfs	64M	0	64M	0%	/dev
/dev/vda2	98G	52G	42G	56%	/etc/hosts

```
shm      64M  0  64M  0% /dev/shm
tmpfs    27G  16K 27G  1% /run/secrets/kubernetes.io/serviceaccount
tmpfs    16G  0  16G  0% /proc/acpi
tmpfs    16G  0  16G  0% /proc/scsi
tmpfs    16G  0  16G  0% /sys/firmware
```

crontab -e

```
0 0 * * * /home/project/diskusage.sh >>/home/project/diskusage.log
```

```
theia@theia-rajendraabro: /home/project × theia(  ⟲
/tmp/crontab.XqX5Lc/crontab *
# For more information see the manual pages of crontab(5)
#
# m h dom mon dow   command
0 21 * * * echo "Welcome to cron" >> /tmp/echo.t
<me/project/diskusage.log
File Name to Write: /tmp/crontab.XqX5Lc/crontab
^G Help      M-D DOS Form M-A Append M-B Backup Fi
blems cancel M-M Mac Form M-P Prepend ^T Browse
```

Ctrl +x , Y , enter

```
theia@theia-rajendraabro:/home/project$ 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').
#
# 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
0 21 * * * echo "Welcome to cron" >> /tmp/echo.txt

0 0 * * * /home/project/diskusage.sh >>/home/project/diskusage.log
```

Exercise 4 - Remove the current crontab

The `-r` option causes the current crontab to be removed.

```
theia@theia-rajendraabro:/home/project$ crontab -r
```