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Tarefas programadas I

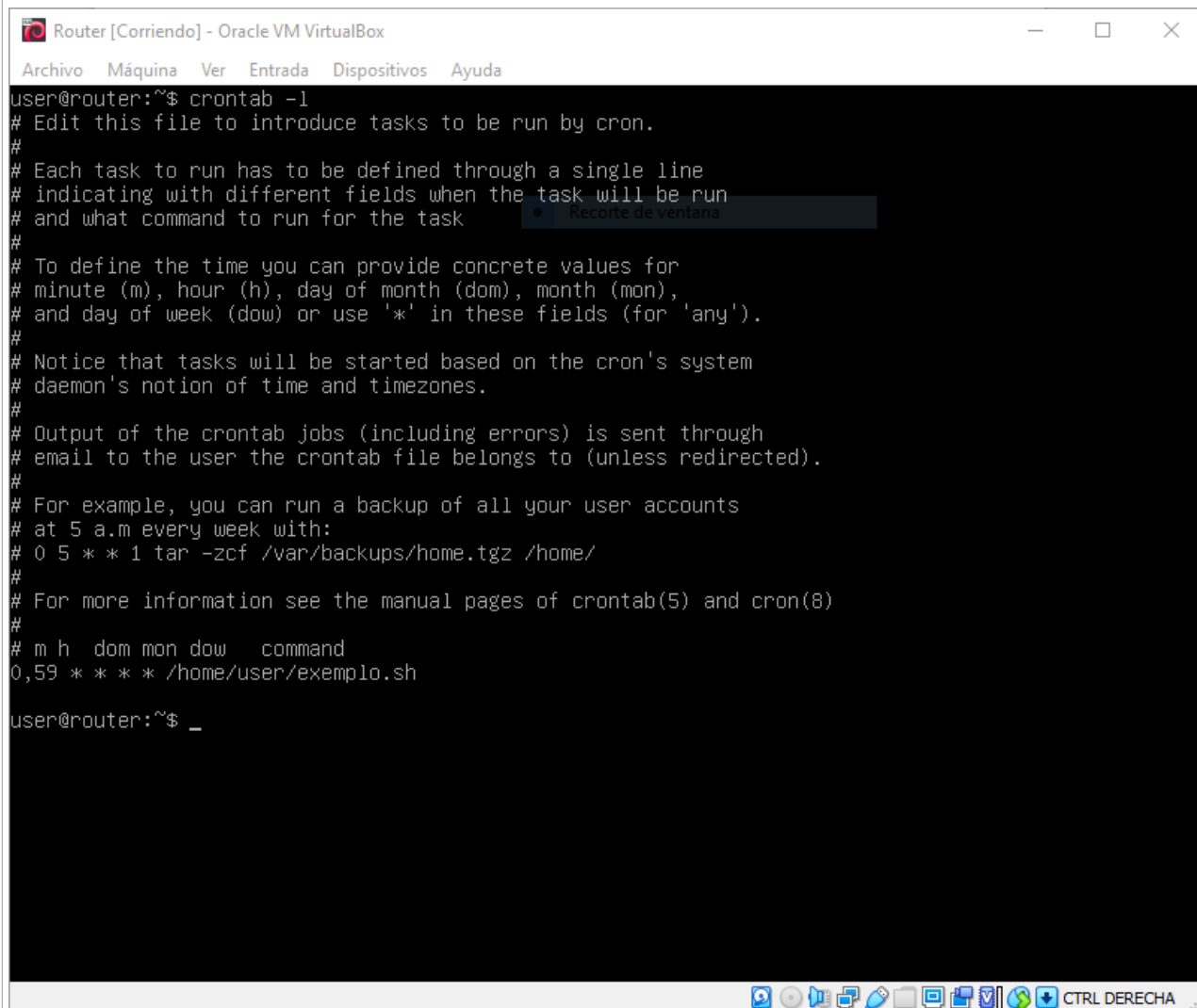


13. Realiza os seguintes exercicios

- a) Mostra as tarefas programadas
- b) Edita as tarefas programadas
- c) Coma root mostra as tarefas programadas do usuario master
- d) Elimina as entradas de crontab
- e) Elimina as entradas de crontab pedindo confirmación antes de borrar
- f) Como usuario master, programa unha tarefa que escriba no arquivo /tmp/cron.txt a hora de execución. Ten en conta que a tarefa ten que executarse cada 5 minutos

Resposta

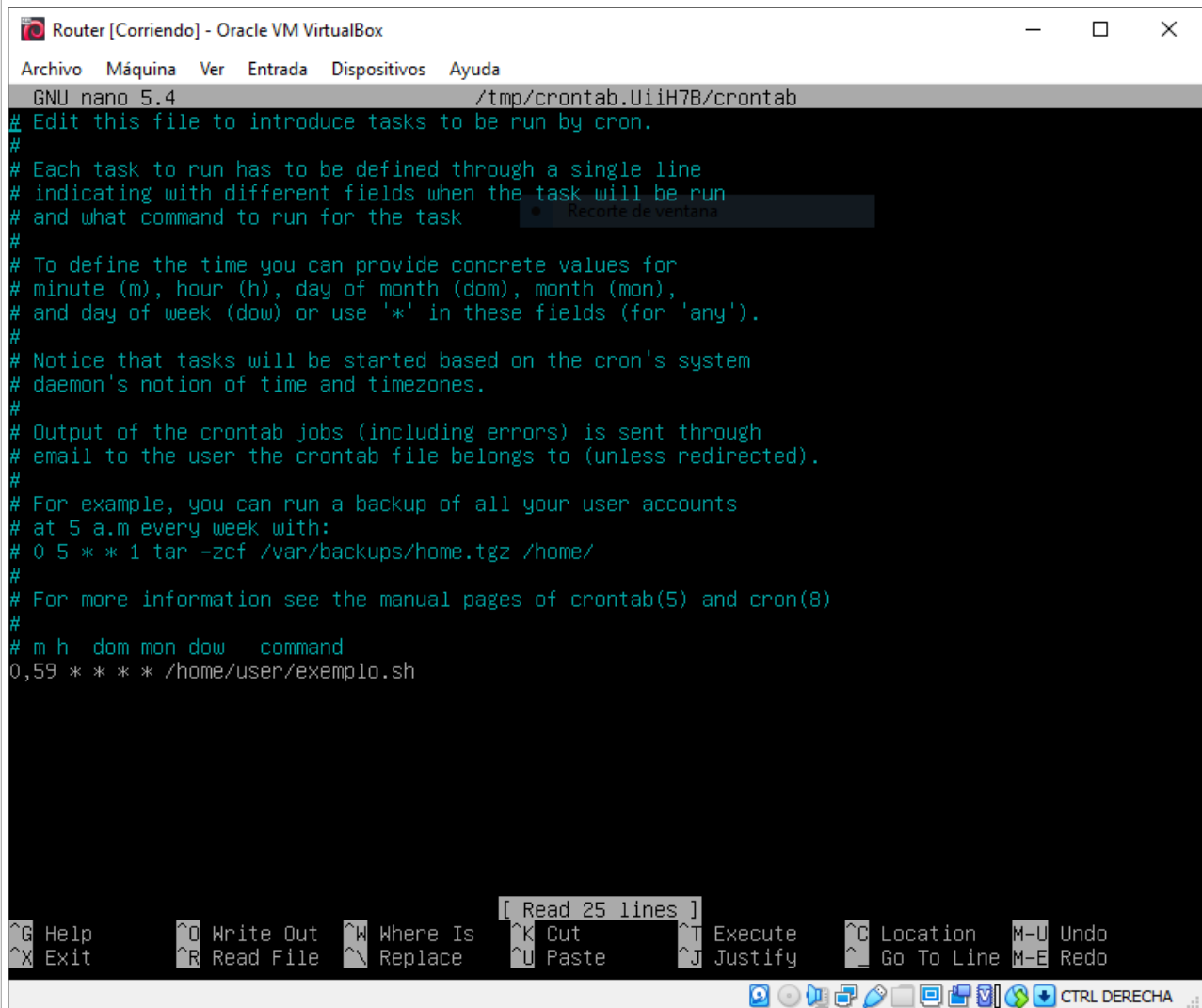
a)



The screenshot shows a terminal window titled "Router [Corriendo] - Oracle VM VirtualBox". The terminal displays the output of the command `crontab -l`. The output consists of several lines of comments explaining the crontab format, followed by a single cron job entry: `0,59 * * * * /home/user/exemplo.sh`. The terminal prompt is `user@router:~$`. A context menu with the option "Recorte de ventana" is visible over the terminal text.

```
Router [Corriendo] - Oracle VM VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda
user@router:~$ 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
0,59 * * * * /home/user/exemplo.sh
user@router:~$ _
```

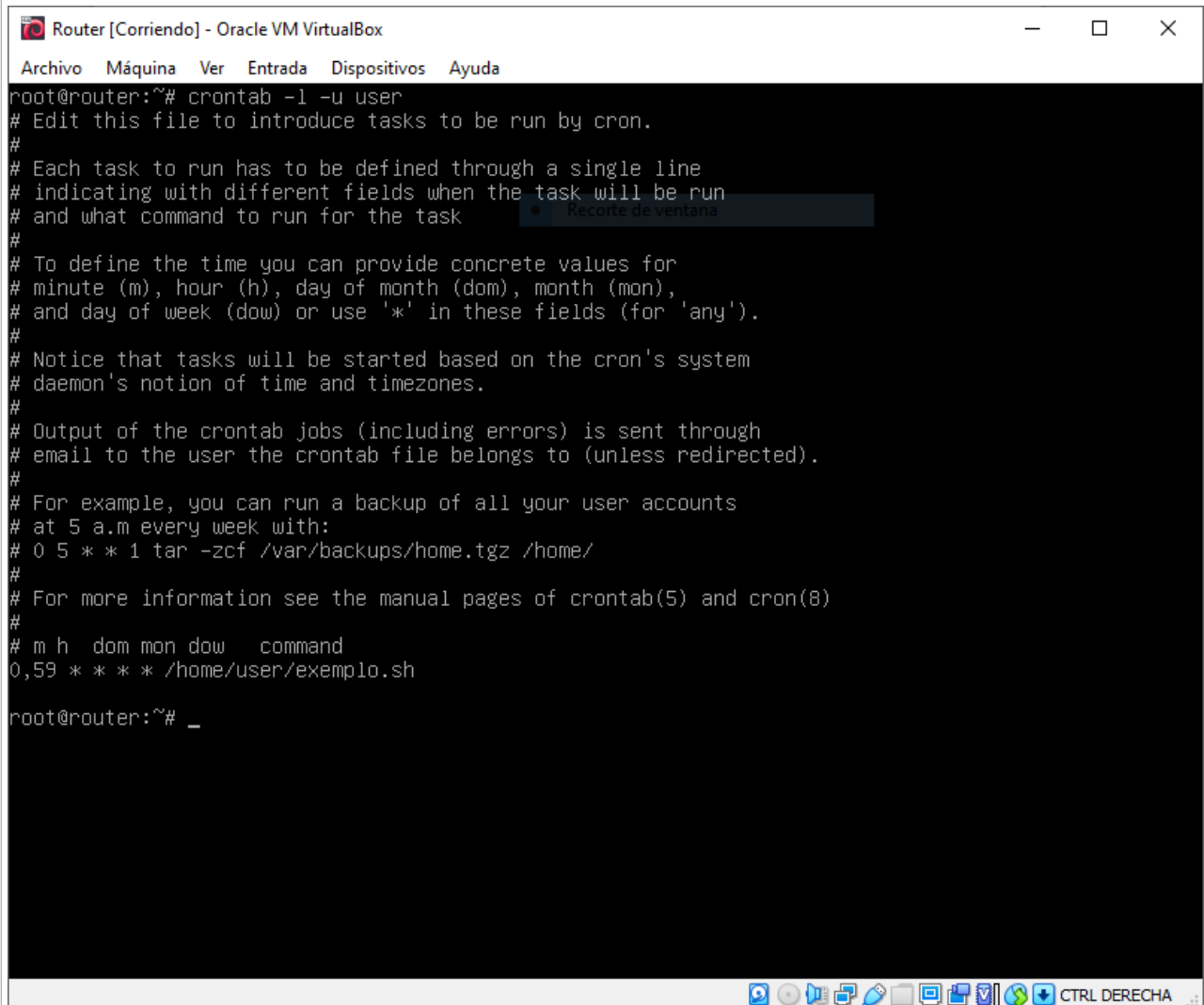
b)



The screenshot shows a window titled "Router [Corriendo] - Oracle VM VirtualBox". Inside, the GNU nano 5.4 text editor is open, editing the file `/tmp/crontab.UiiH7B/crontab`. The editor displays a crontab file with various comments and a single task entry. The task is scheduled to run at 0:59 every minute, every day of the month, every month, and every day of the week, executing the command `/home/user/exemplo.sh`. The nano editor's status bar at the bottom shows the current line is 1, and the file size is 25 lines. The bottom of the window features a standard Linux desktop taskbar with various application icons and a system tray on the right.

```
Router [Corriendo] - Oracle VM VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda
GNU nano 5.4 /tmp/crontab.UiiH7B/crontab
# 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
0,59 * * * * /home/user/exemplo.sh
```

c)



```
Router [Corriendo] - Oracle VM VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda
root@router:~# crontab -l -u user
# 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
0,59 * * * * /home/user/exemplo.sh
root@router:~# _
```

d)

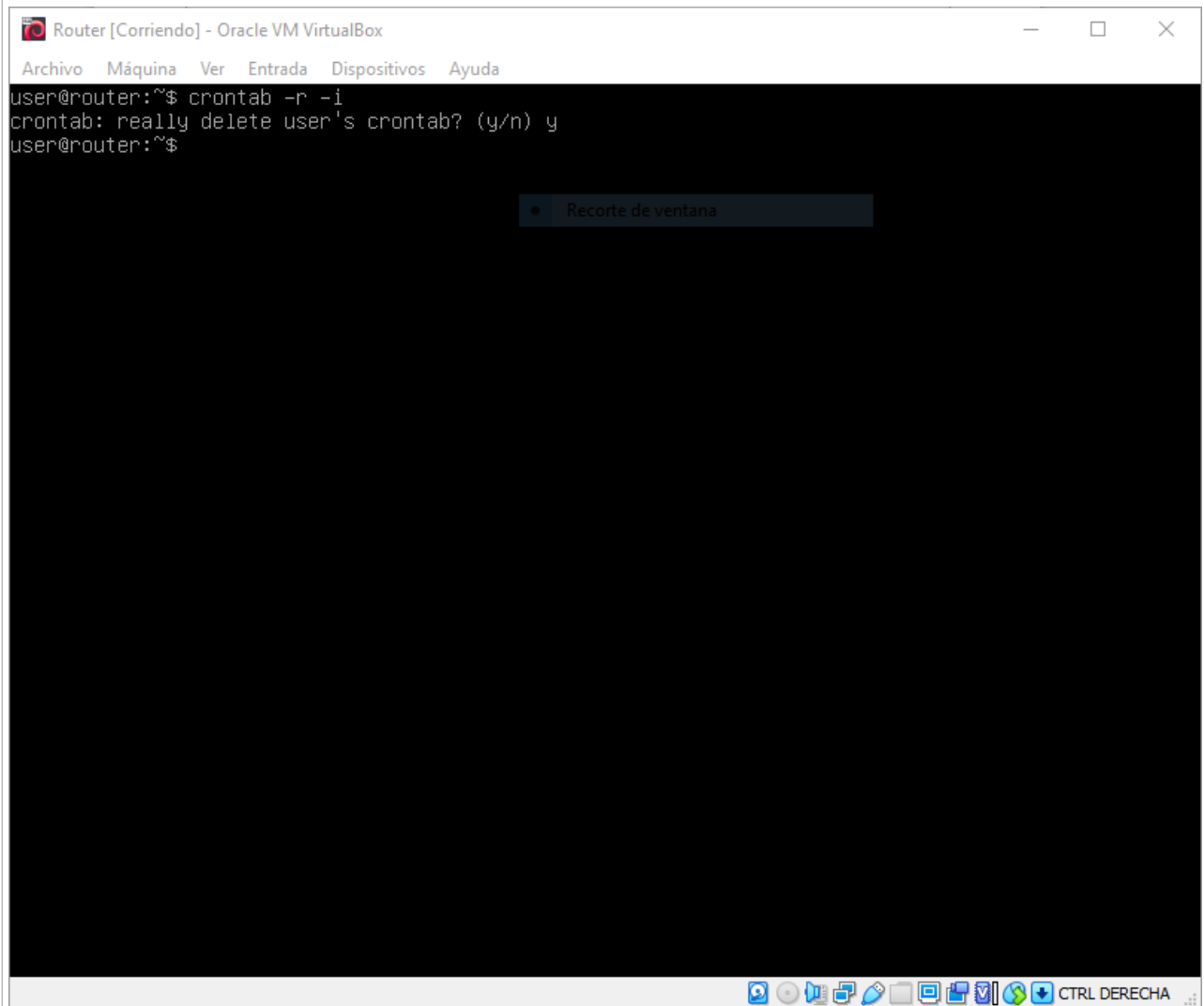
```
Router [Corriendo] - Oracle VM VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda

user@router:~$ crontab -r
user@router:~$ cat /etc/crontab
# /etc/crontab: system-wide crontab
# Unlike any other crontab you don't have to run the `crontab'
# command to install the new version when you edit this file
# and files in /etc/cron.d. These files also have username fields,
# that none of the other crontabs do.

SHELL=/bin/sh
PATH=/usr/local/sbin:/usr/local/bin:/sbin:/bin:/usr/sbin:/usr/bin

# Example of job definition:
# .----- minute (0 - 59)
# | .----- hour (0 - 23)
# | | .----- day of month (1 - 31)
# | | | .----- month (1 - 12) OR jan,feb,mar,apr ...
# | | | | .---- day of week (0 - 6) (Sunday=0 or 7) OR sun,mon,tue,wed,thu,fri,sat
# | | | | |
# * * * * * user-name command to be executed
17 * * * * root    cd / && run-parts --report /etc/cron.hourly
25 6 * * * root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.daily )
47 6 * * 7 root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.weekly )
52 6 1 * * root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.monthly )
#
user@router:~$ _
```

e)



The screenshot shows a terminal window titled "Router [Corriendo] - Oracle VM VirtualBox". The window has a menu bar with "Archivo", "Máquina", "Ver", "Entrada", "Dispositivos", and "Ayuda". The terminal output is as follows:

```
user@router:~$ crontab -r -i
crontab: really delete user's crontab? (y/n) y
user@router:~$
```

A dark grey rectangular box with the text "Recorte de ventana" is overlaid on the terminal output. At the bottom of the window, there is a taskbar with various icons and the text "CTRL DERECHA".

f)

```
Router [Corriendo] - Oracle VM VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda
master@router:~$ cat crontab.sh
#!/bin/bash
date >> /tmp/cron.txt
master@router:~$ _
```

```
Router [Corriendo] - Oracle VM VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda
Recorte de ventana
master@router:~$ 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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#
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# 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
*/5 * * * * /home/master/crontab.sh
master@router:~$ _
```

```
Router [Corriendo] - Oracle VM VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos
Every 2.0s: cat /tmp/cron.txt
Mon 23 Jan 2023 04:20:01 PM CET
```