Sección 2: Automatización con Cron y Scripts (25 minutos)

1. **Programación de tareas con Cron:**
    - **Edita el archivo crontab:**

crontab -e

- **Agrega una tarea para ejecutar un script cada 10 minutos de este ejemplo de cada dia**
-

0 2 * * * /ruta/al/script.sh

```
silvia@silvia-VirtualBox:~$ ls
Descargas   Escritorio  Música      Público  Vídeos
Documentos  Imágenes    Plantillas  snap
silvia@silvia-VirtualBox:~$ cd Escritorio
silvia@silvia-VirtualBox:~/Escritorio$ mk al
mk: no se encontró la orden
silvia@silvia-VirtualBox:~/Escritorio$ mkdir al
silvia@silvia-VirtualBox:~/Escritorio$ cd .
silvia@silvia-VirtualBox:~/Escritorio$ cd..
cd..: no se encontró la orden
silvia@silvia-VirtualBox:~/Escritorio$ cd ..
silvia@silvia-VirtualBox:~$ crontab -e
no crontab for silvia - using an empty one
crontab: installing new crontab
"/tmp/crontab.oVUhJZ/crontab":24: bad hour
errors in crontab file, can't install.
Do you want to retry the same edit? (y/n) y
crontab: installing new crontab
"/tmp/crontab.oVUhJZ/crontab":24: bad hour
errors in crontab file, can't install.
Do you want to retry the same edit? (y/n) y
crontab: installing new crontab
silvia@silvia-VirtualBox:~$ crontab -l
crontab: opción incorrecta -- «l»
crontab: usage error: unrecognized option
usage:  crontab [-u user] [-n] file
        crontab [ -u user ] [ -i ] { -e | -l | -r }
```

```
        -h      (displays this help message)

        file    (default operation is replace, per 1003.2)
        -n      (dry run: checks the syntax, then bails out)
        -u user (choose the user whose crontab is touched)

        -e      (edit user's crontab)
        -l      (list user's crontab)
        -r      (delete user's crontab)

        -i      (prompt before deleting user's crontab)
silvia@silvia-VirtualBox:~$ 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
*/10 * * * * /ruta/al/script.sh
```

```
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silvia@silvia-VirtualBox:~$ sudo sytemctl status cron
[sudo] contraseña para silvia:
sudo: sytemctl: orden no encontrada
silvia@silvia-VirtualBox:~$ sudo systemctl status cron
● cron.service - Regular background program processing daemon
     Loaded: loaded (/usr/lib/systemd/system/cron.service; enabled; preset: ena>
     Active: active (running) since Sat 2025-03-01 16:05:10 CST; 1h 16min ago
       Docs: man:cron(8)
   Main PID: 718 (cron)
      Tasks: 1 (limit: 4615)
     Memory: 932.0K (peak: 2.8M)
        CPU: 639ms
     CGroup: /system.slice/cron.service
             └─718 /usr/sbin/cron -f -P

mar 01 17:15:01 silvia-VirtualBox CRON[30610]: pam_unix(cron:session): session >
mar 01 17:15:01 silvia-VirtualBox CRON[30611]: (root) CMD (command -v debian-sa>
mar 01 17:15:01 silvia-VirtualBox CRON[30610]: pam_unix(cron:session): session >
mar 01 17:17:01 silvia-VirtualBox CRON[30625]: pam_unix(cron:session): session >
mar 01 17:17:01 silvia-VirtualBox CRON[30626]: (root) CMD (cd / && run-parts -->
mar 01 17:17:01 silvia-VirtualBox CRON[30625]: pam_unix(cron:session): session >
mar 01 17:20:01 silvia-VirtualBox CRON[30632]: pam_unix(cron:session): session >
mar 01 17:20:01 silvia-VirtualBox CRON[30634]: (silvia) CMD (/ruta/al/script.sh)
mar 01 17:20:01 silvia-VirtualBox CRON[30632]: (CRON) info (No MTA installed, d>
mar 01 17:20:01 silvia-VirtualBox CRON[30632]: pam_unix(cron:session): session >
lines 1-21/21 (END)
silvia@silvia-VirtualBox:~$ bash /Escritorio/al/script.sh
bash: /Escritorio/al/script.sh: No existe el archivo o el directorio
silvia@silvia-VirtualBox:~$
```

```
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# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
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