fase 1, analisis de servicio de sistemas

Listar todos los servicios activos del sistema usando systemctl list-units --

type=service.

```
postfix.service
postfix@-.service
rsyslog.service
setvtrgb.service
snapd.apparmor.service
snapd.seeded.service
sysstat.service
systemd-binfmt.service
systemd-fsck@dev-disk-by\x2duuid-5f6d24d2\x2dc728\x2d
systemd-journal-flush.service
systemd-journald.service
systemd-logind.service
systemd-modules-load.service
systemd-networkd-wait-online.service
systemd-networkd.service
systemd-random-seed.service
systemd-remount-fs.service
systemd-resolved.service
systemd-sysctl.service
systemd-timesyncd.service
systemd-tmpfiles-setup-dev-early.service
systemd-tmpfiles-setup-dev.service
systemd-tmpfiles-setup.service
systemd-udev-trigger.service
systemd-udevd.service
systemd-update-utmp.service
systemd-user-sessions.service
udisks2.service
```

Identificar y documentar 3 servicios activos fundamentales, ssh, cron, networking

```
[sudo] password for oscar:
sudo: /etc/ssh/sshd_config: command not found
scar@srv-base-oscarhernandez:~$ sudo systemctl status ssh
• ssh.service - OpenBSD Secure Shell server
Loaded: loaded (/usr/lib/systemd/system/ssh.service; disabled; preset: enabled)
Active: inactive (dead)
TriggeredBy: • ssh.socket

Docs: man:sshd(8)
man:sshd config(5)
```

cron

networking

Fase 2: Gestión avanzada de servicios con Systemd

Detener, reiniciar y habilitar al arranque el servicio web apache2 para detener se utiliza sudo systemctl stop apache2 para habilitar el servicio sudo systemctl enabled apache2 para reiniciar sudo systemctl restart apache2

para reiniciar automaticamente apache 2 si falla hay que añadir una linea en su directorio

```
[service]
restart=alway
```

Crear un alias para reiniciar rápidamente el servicio desde .bashrc o .zshrc.

```
# enable programmable completion features (you don't need to enable
# this, if it's already enabled in /etc/bash.bashrc and /etc/profile
# sources /etc/bash.bashrc).
if ! shopt -oq posix; then
   if [ -f /usr/share/bash-completion/bash_completion ]; then
        . /usr/share/bash-completion/bash_completion
   elif [ -f /etc/bash_completion ]; then
        . /etc/bash_completion
   fi
fi
alias restart-apache=`sudo systemctl restart apache2`
```

fase 3, creación de un servicio personalizado.

Crear un script Bash llamado saludo.sh que escriba "¡Servidor iniciado correctamente!" en un archivo /var/log/saludo.log.

primero creamos el archivo /var/log/saludo.log

```
scar@srv-base-oscarhernandez:~$ ls
scar@srv-base-oscarhernandez:~$ cd
 car@srv-base-o<u>scarh</u>ernandez:/var$ ls
ackups cache <mark>crash</mark> lib local <mark>loc</mark>k lo
scar@srv-base-oscarhernandez:/var$ cd log
                                                           mail opt run snap spool <mark>tmp</mark> www
     r@srv-base-oscarhernandez:/var/log$ ls
                                         cloud-init.log
alternatives.log
                                                                           dmesg.0
                                                                                                                           mail.log
                                                                                           dpkg.log
faillog
                       auth.log
                                          cloud-init-output.log
                                                                                                           kern.log
                                                                                                                           README
apport.log
                       bootstrap.log
                                                                                                                                           ubuntu-advantage
pt btmp dmesg
scar@srv-base-oscarhernandez:/var/log$ cd saludo.log
                                                                                                            lastlog
                                                                                                                           saludo.log ufw.log
-bash: cd: saludo.log: Not a directory
oscar@srv-base-oscarhernandez:/var/log$
```

despues se crea el archivo saludo.sh y se modifica.

```
GNU nano 7.2
≝!/bin/bash
∋<mark>cho "servidor iniciado correctamente"</mark> >> /var/log/saludo.log
```

comprobación

```
oscar@srv-base-oscarhernandez:/var/log$ sudo cat /var/log/saludo.log
servidor iniciado crrectamente
oscar@srv-base-oscarhernandez:/var/log$ _
```

Crear un nuevo **servicio de systemd** llamado saludo.service que ejecute ese script automáticamente al iniciar el sistema.

```
Servicio iniciado
Servidor iniciado correctamente
Servicio finalizado
Oscar@srv-base-oscarhernandez:~$
```

crear el logs

```
[sudo] password for oscar:

coscar@srv-base-oscarhernandez:~$ sudo cat /var/log/saludo.log

Servicio iniciado

servidor iniciado correctamente

servicio finalizado

oscar@srv-base-oscarhernandez:~$
```

fase 4, monitorización de logs

visualizar los logs

```
jun 23 19:12:02 srv-base-oscarhernandez systemd[1]: Started saludo.service - Servicio de saludo.
jun 23 19:12:02 srv-base-oscarhernandez systemd[1]: saludo.service: Deactivated successfully.
jun 23 19:12:02 srv-base-oscarhernandez systemd[1]: saludo.service: Scheduled restart job, restart counter is at 1.
jun 23 19:12:02 srv-base-oscarhernandez systemd[1]: Started saludo.service - Servicio de saludo.
jun 23 19:12:02 srv-base-oscarhernandez systemd[1]: saludo.service: Deactivated successfully.
jun 23 19:12:02 srv-base-oscarhernandez systemd[1]: saludo.service: Scheduled restart job, restart counter is at 2.
jun 23 19:12:02 srv-base-oscarhernandez systemd[1]: Started saludo.service: Deactivated successfully.
jun 23 19:12:02 srv-base-oscarhernandez systemd[1]: saludo.service: Scheduled restart job, restart counter is at 3.
jun 23 19:12:02 srv-base-oscarhernandez systemd[1]: Started saludo.service - Servicio de saludo.
jun 23 19:12:03 srv-base-oscarhernandez systemd[1]: saludo.service: Deactivated successfully.
jun 23 19:12:03 srv-base-oscarhernandez systemd[1]: saludo.service: Deactivated successfully.
jun 23 19:12:03 srv-base-oscarhernandez systemd[1]: saludo.service: Deactivated successfully.
jun 23 19:12:03 srv-base-oscarhernandez systemd[1]: saludo.service: Scheduled restart job, restart counter is at 4.
jun 23 19:12:03 srv-base-oscarhernandez systemd[1]: saludo.service: Scheduled restart job, restart counter is at 5.
actado.

pun 23 19:12:03 srv-base-oscarhernandez systemd[1]: saludo.service: Scheduled restart job, restart counter is at 5.
actado.
```

estado

```
oscar@srv-base-oscarhernandez:~$ sudo system status saludo.service
sudo: system: command not found
oscar@srv-base-oscarhernandez:~$ sudo systemctl status saludo.service
♦ saludo.service - Servicio de saludo
     Loaded: loaded (/etc/systemd/system/saludo.service; disabled; preset: enabled)
     Active: inactive (dead)
jun 23 21:45:50 srv-base-oscarhernandez systemd[1]: /etc/systemd/system/saludo.servic
jun 23 21:45:50 srv-base-oscarhernandez systemd[1]: /etc/systemd/system/saludo.servic
```

filtrar los errores journalctl -p 3 -xb

```
oscar@srv-base-oscarhernandez:~$ sudo journalctl -p 3 -xb
jun 23 21:43:02 srv-base-oscarhernandez kernel:
jun 23 21:43:02 srv-base-oscarhernandez systemd[1]:
jun 23 21:43:03 srv-base-oscarhernandez kernel:
jun 23 21:43:03 srv-base-oscarhernandez kernel:
jun 23 21:43:03 srv-base-oscarhernandez kernel:
jun 23 21:43:11 srv-base-oscarhernandez login[1038]: PAM
jun 23 21:43:11 srv-base-oscarhernandez login[1038]: P
lines 1-7/7 (END)
```