Unidad 1

Comandos Generales

Estos comandos sirven para saber los servicios que tenemos

Man Init

```
alumnat@hugogd: /etc/init.d
SYSTEMD(1)
                                                       systemd
NAME
      systemd, init - systemd system and service manager
SYNOPSIS
      /usr/lib/systemd/systemd [OPTIONS...]
      init [OPTIONS...] {COMMAND}
DESCRIPTION
      systemd is a system and service manager for Linux operating systems. When run as f
      1), it acts as init system that brings up and maintains userspace services. Separa
      logged-in users to start their services.
      systemd is usually not invoked directly by the user, but is installed as the /sbin
      during early boot. The user manager instances are started automatically through the
      For compatibility with SysV, if the binary is called as init and is not the first
      is not 1), it will execute telinit and pass all command line arguments unmodified.
      are mostly equivalent when invoked from normal login sessions. See telinit(8) for
      When run as a system instance, systemd interprets the configuration file system.com
      system.conf.d directories; when run as a user instance, systemd interprets the con-
      and the files in user.conf.d directories. See systemd-system.conf(5) for more info
CONCEPTS
      systemd provides a dependency system between various entities called "units" of 11
      encapsulate various objects that are relevant for system boot-up and maintenance.
      configured in unit configuration files, whose syntax and basic set of options is de
Manual page init(1) line 1 (press h for help or q to quit)
```

readlink -v /sbin/init

```
alumnat@hugogd:/etc/init.d$ readlink -v /sbin/init
../lib/systemd/systemd
alumnat@hugogd:/etc/init.d$
```

El comando runlevel dice en que nivel estas al ser SystemV es el N5

Con esta comanda se mostraran las correspondencias entre RUNLEVEL y targets

```
alumnat@hugogd:-$ ls -l /lib/systemd/system/runlevel*.target
lrwxrwxrwx 1 root root 15 d'abr. 19 2024 /lib/systemd/system/runlevel0.target -> poweroff.target
lrwxrwxrwx 1 root root 13 d'abr. 19 2024 /lib/systemd/system/runlevel1.target -> rescue.target
lrwxrwxrwx 1 root root 17 d'abr. 19 2024 /lib/systemd/system/runlevel2.target -> multi-user.target
lrwxrwxrwx 1 root root 17 d'abr. 19 2024 /lib/systemd/system/runlevel3.target -> multi-user.target
lrwxrwxrwx 1 root root 17 d'abr. 19 2024 /lib/systemd/system/runlevel4.target -> multi-user.target
lrwxrwxrwx 1 root root 16 d'abr. 19 2024 /lib/systemd/system/runlevel4.target -> graphical.target
lrwxrwxrwx 1 root root 13 d'abr. 19 2024 /lib/systemd/system/runlevel6.target -> reboot.target
lrwxrwxrwx 1 root root 13 d'abr. 19 2024 /lib/systemd/system/runlevel6.target -> reboot.target
alumnat@hugogd:-$
```

Dentro de la carpeta /etc/init.d estaran todos los scripts modificables dentro del sistema

```
alumnat@hugogd:/etc/init.d$ ls -l
total 132
-rwxr-xr-x 1 root root 5623 de nov. 30 2022 alsa-utils
rwxr-xr-x 1 root root 2055 de set. 25 2023 anacron
rwxr-xr-x 1 root root 3740 de gen. 10
                                        2024 аррагтог
rwxr-xr-x 1 root root 2275 d'abr. 19 2024 apport
rwxr-xr-x 1 root root 2968 de gen. 3 2024 bluetooth
rwxr-xr-x 1 root root 1235 de febr. 26 2024 console-setup.sh
rwxr-xr-x 1 root root 3103 de febr. 27
                                        2024 cron
rwxr-xr-x 1 root root 2804 de febr. 28
                                        2024 cups
rwxr-xr-x 1 root root 3152 de des. 5 2023 dbus
rwxr-xr-x 1 root root 3029 d'abr.
                                    4 2024 adm3
rwxr-xr-x 1 root root 985 de febr. 23 2024 grub-common
rwxr-xr-x 1 root root 3131 de maig 19
                                        2017 kerneloops
rwxr-xr-x 1 root root 1482 de febr. 26
                                        2024 keyboard-setup.sh
rwxr-xr-x 1 root root 2043 d'abr.
                                    18 2024 kmod
rwxr-xr-x 1 root root 9138 de febr. 28 2024 openvpn
rwxr-xr-x 1 root root 1386 de març 21
rwxr-xr-x 1 root root 760 de març 21
                                        2024 plymouth
                                        2024 plymouth-log
rwxr-xr-x 1 root root 959 de març 24 2024 procps
rwxr-xr-x 1 root root 4417 d'abr.
                                   12 2024 rsync
                                   15 2018 saned
rwxr-xr-x 1 root root 2224 d'abr.
                                    5 2023 speech-dispatcher
rwxr-xr-x 1 root root 2040 d'oct.
rwxr-xr-x 1 root root 2484 de nov. 21 2023 spice-vdagent
                                    5 2024 sssd
rwxr-xr-x 1 root root 2555 d'abr.
                                    9 2024 sysstat
rwxr-xr-x 1 root root 1581 de gen.
rwxr-xr-x 1 root root 2091 de febr. 11
                                        2024 ufw
rwxr-xr-x 1 root root 1391 de febr. 12
                                        2024 unattended-upgrades
rwxr-xr-x 1 root root 1306 d'abr. 9 2024 uuidd
rwxr-xr-x 1 root root 485 d'ag.
                                    11 2018 whoopsie
rwxr-xr-x 1 root root 2762 d'oct. 19 2021 x11-common
alumnat@hugogd:/etc/init.d$
```

Si entramos por ejemplo al **runlevel nivel 0** veremos las procesos asociadas al los scripts del poweroff.

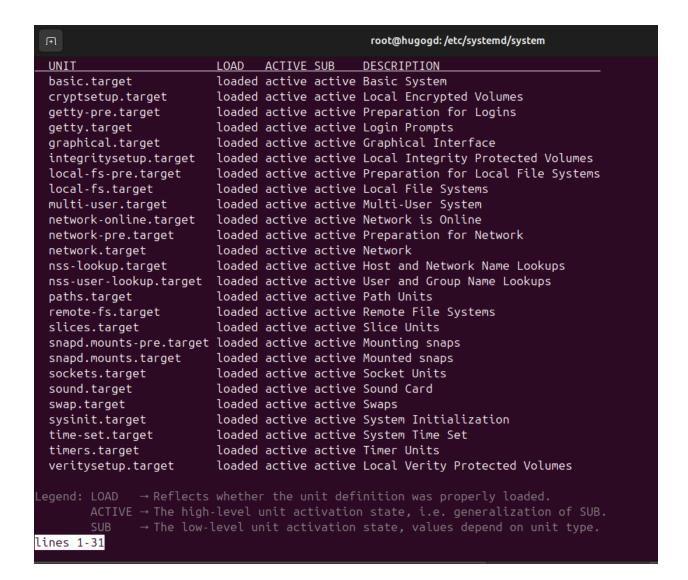
```
alumnat@hugogd:/etc/rc0.d$ ls -l
total 0
                                  24 2024 K01alsa-utils -> ../init.d/alsa-utils
lrwxrwxrwx 1 root root 20 d'abr.
lrwxrwxrwx 1 root root 19 d'abr.
                                 24 2024 K01bluetooth -> ../init.d/bluetooth
lrwxrwxrwx 1 root root 14 d'abr.
                                24 2024 K01gdm3 -> ../init.d/gdm3
                                24 2024 K01kerneloops -> ../init.d/kerneloops
lrwxrwxrwx 1 root root 20 d'abr.
                                 24 2024 K01openvpn -> ../init.d/openvpn
lrwxrwxrwx 1 root root 17 d'abr.
                                24 2024 K01plymouth -> ../init.d/plymouth
lrwxrwxrwx 1 root root 18 d'abr.
lrwxrwxrwx 1 root root 15 d'abr. 24 2024 K01saned -> ../init.d/saned
lrwxrwxrwx 1 root root 27 d'abr. 24 2024 K01speech-dispatcher -> ../init.d/speech-disp
lrwxrwxrwx 1 root root 23 d'abr. 24 2024 K01spice-vdagent -> ../init.d/spice-vdagent
lrwxrwxrwx 1 root root 14 d'abr. 24 2024 K01sssd -> ../init.d/sssd
lrwxrwxrwx 1 root root 29 d'abr. 24 2024 K01unattended-upgrades -> ../init.d/unattended
lrwxrwxrwx 1 root root 15 d'abr.
                                 24 2024 K01uuidd -> ../init.d/uuidd
alumnat@hugogd:/etc/rc0.dS
```

En la carpeta /lib/systemd/system tenemos todos los targets de los diferentes niveles de runlevel que hay, en cada uno de estos tendremos la equivalencia del target como .wants

```
alumnat@hugogd:/lib/systemd/system$ ls
accounts-daemon.service
                                          smartcard.target
alsa-restore.service
                                          snapd.apparmor.service
alsa-state.service
                                          snapd.autoimport.service
alsa-utils.service
                                          snapd.core-fixup.service
anacron.service
                                          snapd.failure.service
anacron.timer
                                          snapd.mounts-pre.target
apparmor.service
                                          snapd.mounts.target
                                          snapd.recovery-chooser-trigger.service
apport-autoreport.path
apport-autoreport.service
                                          snapd.seeded.service
apport-autoreport.timer
                                          snapd.service
apport-coredump-hook@.service
                                          snapd.snap-repair.service
apport-forward@.service
                                          snapd.snap-repair.timer
apport-forward.socket
                                          snapd.socket
apport.service
                                          snapd.system-shutdown.service
apt-daily.service
                                          sockets.target
apt-daily.timer
apt-daily-upgrade.service
                                          soft-reboot.target
apt-daily-upgrade.timer
                                          sound.target
apt-news.service
autovt@.service
                                          speech-dispatcherd.service
avahi-daemon.service
                                          spice-vdagentd.service
avahi-daemon.socket
                                          spice-vdagentd.socket
basic.target
                                          spice-vdagent.service
blockdev@.target
                                          ssl-cert.service
bluetooth.service
                                          sssd-autofs.service
bluetooth.target
                                          sssd-autofs.socket
bolt.service
                                         sssd-nss.service
boot-complete.target
                                         sssd-nss.socket
brltty.service
                                          sssd-pac.service
brltty-udev.service
                                          sssd-pac.socket
```

Siempre que tengamos que modificar algo es mejor modificarlo en la carpeta /etc/systemd/system y no tocar los de la carpeta /lib para tenerlos como copia de seguridad

```
alumnat@hugogd:/lib/systemd/system$ cd /etc/systemd/system
alumnat@hugogd:/etc/systemd/system$ ls
                                               snap-bare-5.mount
                                               snap-core22-1380.mount
 dbus-fi.w1.wpa_supplicant1.service
                                               snap-core22-2111.mount
 dbus-org.bluez.service
 dbus-org.freedesktop.Avahi.service
                                               snap-firefox-4173.mount
 dbus-org.freedesktop.ModemManager1.service
                                              'snap-firmware\x2dupdater-127.mount'
                                               snap-firmware\x2dupdater-167.mount'
 dbus-org.freedesktop.nm-dispatcher.service
 dbus-org.freedesktop.oom1.service
                                              'snap-gnome\x2d42\x2d2204-176.mount'
                                              'snap-gnome\x2d42\x2d2204-202.mount'
 dbus-org.freedesktop.resolve1.service
                                              'snap-gtk\x2dcommon\x2dthemes-1535.mount'
 dbus-org.freedesktop.thermald.service
 dbus-org.freedesktop.timesync1.service
                                               snap-snapd-21465.mount
 display-manager.service
                                               snap-snapd-25202.mount
                                              snap-snapd\x2ddesktop\x2dintegration-157.mov
                                              'snap-snapd\x2ddesktop\x2dintegration-315.mo
                                              'snap-snap\x2dstore-1124.mount'
                                               syslog.service
                                              'var-snap-firefox-common-host\x2dhunspell.mo
alumnat@hugogd:/etc/systemd/system$
```



Por ejemplo con el comando systematl get-default tendremos el target default

root@hugogd:/etc/systemd/system# systemctl get-default

graphical.target

root@hugogd:/etc/systemd/system#

Para saber sus dependencias tendremos que usar el comando **systemctl list-dependencies graphical.target**

```
root@hugogd:/etc/systemd/system# systemctl list-dependencies graphical.target
graphical.target
  —accounts-daemon.service
   gdm.service
   -gnome-remote-desktop.service
  —power-profiles-daemon.service
   -switcheroo-control.service
  —systemd-update-utmp-runlevel.service
   -udisks2.service
   -multi-user.target
    —anacron.service
    -apport.service
    —avahi-daemon.service
    —console-setup.service
    cron.service
    cups-browsed.service
    -cups.path
    -cups.service
    —dbus.service
    —dmesg.service
    e2scrub reap.service
    grub-common.service
    grub-initrd-fallback.service
    -kerneloops.service
    —ModemManager.service
    -networkd-dispatcher.service
    -NetworkManager.service
    —openvpn.service
    -plymouth-quit-wait.service
     nlymouth-quit.service
```

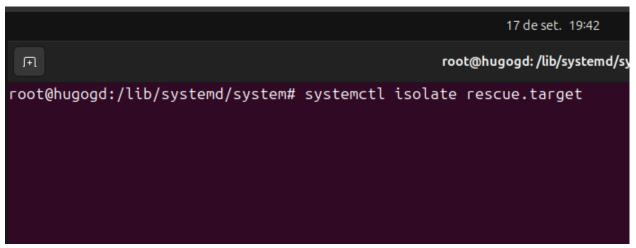
Por ejemplo podemos probarlo con otros targets como por ejemplo poweroff.target

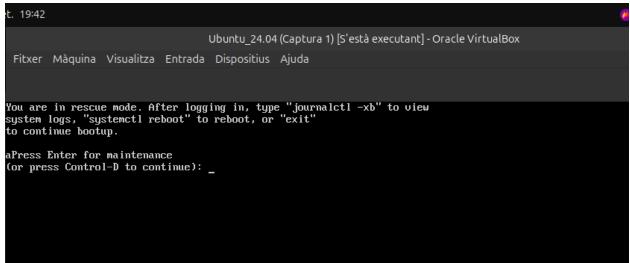
Para saber donde se encuentra un servicio podemos usar el comando ls con la ruta de la carpeta usando *.wants para buscar en todos los archivos .wants

```
root@hugogd:/lib/systemd/system# ls /etc/systemd/system/*.wants/cron.service
/etc/systemd/system/multi-user.target.wants/cron.service
root@hugogd:/lib/systemd/system#
```

Para cambiar el target por defecto lo podemos hacer de forma definitiva o temporal para cambiarlo usaremos:

TEMPORAL:





POR DEFECTO:

Si hacemos un ls vemos que tiene una l delante eso es que es un enlace lo borraremos usando

root@hugogd:/lib/systemd/system# rm default.target

Y crearemos uno nuevo con el comando

```
root@hugogd:/lib/systemd/system# ln -s rescue.target default.target
root@hugogd:/lib/systemd/system# ls -l | grep default
lrwxrwxrwx 1 root root 13 de set. 17 19:45 default.target -> rescue.target
root@hugogd:/lib/systemd/system#
```

ahora haciendo un reboot podremos comprobar que se inicia usando rescue.target

Para volver a cambiar el target con el que iniciara tendremos que hacer lo contrario

- rm default.target
- In -s graphical.target default.target

Para saber como esta un servicio podemos hacer un systemctl status en este caso **SSH** que no lo tenemos

```
root@hugogd:/home/alumnat# systemctl status ssh

Unit ssh.service could not be found.
root@hugogd:/home/alumnat#
```

Una vez instalado con apt install ssh podremos volver a hacer un status para comprobar que lo tenemos.

El comando **systemctl is-enabled "servicio"** sirve para saber si el servicio esta en un target

```
root@hugogd:/# systemctl is-enabled cron
enabled
root@hugogd:/#
```

El comando **systemctl enabled "servicio"** servira para crear un enlace para que se encienda default el servicio con la arrancada del ordenador y **system disabled "servicio"** para quitar el enlace.

```
root@alumnat-VirtualBox:/etc/rc2.d# systemctl enable ssh
Synchronizing state of ssh.service with SysV service script with /usr/lib/systemd/system
d-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable ssh
Created symlink /etc/systemd/system/sshd.service 
ightarrow /usr/lib/systemd/system/ssh.service.
Created symlink /etc/systemd/system/multi-user.target.wants/ssh.service → /usr/lib/syste
md/system/ssh.service.
root@alumnat-VirtualBox:/etc/rc2.d#
root@alumnat-VirtualBox:/etc/rc2.d# systemctl disable ssh
Synchronizing state of ssh.service with SysV service script with /usr/lib/systemd/system
d-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install disable ssh
Removed "/etc/systemd/system/multi-user.target.wants/ssh.service".
Removed "/etc/systemd/system/sshd.service".
Disabling 'ssh.service', but its triggering units are still active:
ssh.socket
root@alumnat-VirtualBox:/etc/rc2.d#
```

Para hacer que el ssh se habilite con un servicio en este caso multi-user.target.wants.

Primero deshabilitaremos el cron con el domando

root@hugogd:/etc/systemd/system/multi-user.target.wants# systemctl disable cron Synchronizing state of cron.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.

Executing: /usr/lib/systemd/systemd-sysv-install disable cron
Removed "/etc/systemd/system/multi-user.target.wants/cron.service".
root@hugogd:/etc/systemd/system/multi-user.target.wants#

Y habilitaremos **SSH** con el comando

```
root@hugogd:/etc/systemd/system/multi-user.target.wants# systemctl enable ssh
Synchronizing state of ssh.service with SysV service script with /usr/lib/system
d/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable ssh
Created symlink /etc/systemd/system/sshd.service → /usr/lib/systemd/system/ssh.s
ervice.
Created symlink /etc/systemd/system/multi-user.target.wants/ssh.service → /usr/l
ib/systemd/system/ssh.service.
root@hugogd:/etc/systemd/system/multi-user.target.wants# reboot
```

Y reiniciaremos para comprobarlo

```
root@hugogd: /home/alumnat
root@hugogd:/home/alumnat# systemctl status cron
○ cron.service - Regular background program processing daemon
    Loaded: loaded (/usr/lib/systemd/system/cron.service; disabled; preset: en>
    Active: inactive (dead)
      Docs: man:cron(8)
lines 1-4/4 (END)
root@huqoqd:/home/alumnat# systemctl status ssh
ssh.service - OpenBSD Secure Shell server
     Loaded: loaded (/usr/lib/systemd/system/ssh.service; enabled; preset: enab>
     Active: active (running) since Wed 2025-09-17 20:08:46 CEST; 38s ago
TriggeredBy: <a>ssh.socket</a>
       Docs: man:sshd(8)
             man:sshd config(5)
    Process: 1007 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
   Main PID: 1020 (sshd)
      Tasks: 1 (limit: 4615)
     Memory: 2.1M (peak: 2.3M)
        CPU: 37ms
     CGroup: /system.slice/ssh.service
              └─1020 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"
de set. 17 20:08:46 hugogd systemd[1]: Starting ssh.service - OpenBSD Secure Sh
de set. 17 20:08:46 hugogd sshd[1020]: Server listening on :: port 22.
de set. 17 20:08:46 hugogd systemd[1]: Started ssh.service - OpenBSD Secure She
lines 1-17/17 (END)
```

Para comprobar que estan sincronizado haremos un ls -l en /etc/rc5.d podremos ver que esta como K01 (kill)

```
root@hugogd:/etc/rc5.d# ls -l
total 0
lrwxrwxrwx 1 root root 14 d'abr.
                                  24 2024 K01cron -> ../init.d/cron
lrwxrwxrwx 1 root root 27 d'abr.
                                  24 2024 K01speech-dispatcher -> ../init.d/speech-dispatcher
lrwxrwxrwx 1 root root 17 d'abr.
                                  24 2024 S01anacron -> ../init.d/anacron
lrwxrwxrwx 1 root root 16 d'abr.
                                 24 2024 S01apport -> ../init.d/apport
lrwxrwxrwx 1 root root 19 d'abr.
                                 24 2024 S01bluetooth -> ../init.d/bluetooth
lrwxrwxrwx 1 root root 26 d'abr.
                                 24 2024 S01console-setup.sh -> ../init.d/console-setu
lrwxrwxrwx 1 root root 14 d'abr.
                                 24 2024 S01cups -> ../init.d/cups
                                  24 2024 S01dbus -> ../init.d/dbus
lrwxrwxrwx 1 root root 14 d'abr.
lrwxrwxrwx 1 root root 14 d'abr.
                                  24 2024 S01gdm3 -> ../init.d/gdm3
lrwxrwxrwx 1 root root 21 d'abr.
                                  24 2024 S01grub-common -> ../init.d/grub-common
lrwxrwxrwx 1 root root 20 d'abr.
                                 24 2024 S01kerneloops -> ../init.d/kerneloops
                                 24 2024 S01openvpn -> ../init.d/openvpn
lrwxrwxrwx 1 root root 17 d'abr.
lrwxrwxrwx 1 root root 18 d'abr.
                                 24 2024 S01plymouth -> ../init.d/plymouth
lrwxrwxrwx 1 root root 15 d'abr.
                                  24 2024 S01rsync -> ../init.d/rsync
lrwxrwxrwx 1 root root 15 d'abr.
                                  24 2024 S01saned -> ../init.d/saned
lrwxrwxrwx 1 root root 23 d'abr.
                                24 2024 S01spice-vdagent -> ../init.d/spice-vdagent
lrwxrwxrwx 1 root root 13 de set. 17 19:56 S01ssh -> ../init.d/ssh
lrwxrwxrwx 1 root root 14 d'abr.
                                  24 2024 S01sssd -> ../init.d/sssd
                                  24 2024 S01sysstat -> ../init.d/sysstat
lrwxrwxrwx 1 root root 17 d'abr.
lrwxrwxrwx 1 root root 29 d'abr.
                                  24 2024 S01unattended-upgrades -> ../init.d/unattended
lrwxrwxrwx 1 root root 15 d'abr.
                                  24 2024 S01uuidd -> ../init.d/uuidd
                                  24 2024 S01whoopsie -> ../init.d/whoopsie
lrwxrwxrwx 1 root root 18 d'abr.
```

Si lo habilitamos y volvemos a hacer el ls -l podremos ver que sale como S01cron

```
root@hugogd:/etc/rc5.d# systemctl enable cron
Synchronizing state of cron.service with SysV service script with /usr/lib/systemd/systemd
Executing: /usr/lib/systemd/systemd-sysv-install enable cron
 Created symlink /etc/systemd/system/multi-user.target.wants/cron.service 
ightarrow /usr/lib/system
root@hugogd:/etc/rc5.d# ls -l
total 0
lrwxrwxrwx 1 root root 27 d'abr. 24 2024 K01speech-dispatcher -> ../init.d/speech-dispa
lrwxrwxrwx 1 root root 17 d'abr. 24 2024 S01anacron -> ../init.d/anacron
lrwxrwxrwx 1 root root 16 d'abr. 24 2024 S01apport -> ../init.d/apport
lrwxrwxrwx 1 root root 19 d'abr. 24 2024 S01bluetooth -> ../init.d/bluetooth
lrwxrwxrwx 1 root root 26 d'abr. 24 2024 S01console-setup.sh -> ../init.d/console-setup
lrwxrwxrwx 1 root root 14 d'abr. 24 2024 S01cron -> ../init.d/cron
lrwxrwxrwx 1 root root 14 d'abr. 24 2024 S01cups -> ../init.d/cups
lrwxrwxrwx 1 root root 14 d'abr. 24 2024 S01dbus -> ../init.d/dbus
lrwxrwxrwx 1 root root 14 d'abr. 24 2024 S01gdm3 -> ../init.d/gdm3
lrwxrwxrwx 1 root root 21 d'abr. 24 2024 S01grub-common -> ../init.d/grub-common
lrwxrwxrwx 1 root root 20 d'abr. 24 2024 S01kerneloops -> ../init.d/kerneloops lrwxrwxrwx 1 root root 17 d'abr. 24 2024 S01openvpn -> ../init.d/openvpn lrwxrwxrwx 1 root root 18 d'abr. 24 2024 S01plymouth -> ../init.d/plymouth
lrwxrwxrwx 1 root root 15 d'abr. 24 2024 S01rsync -> ../init.d/rsync
lrwxrwxrwx 1 root root 15 d'abr. 24 2024 S01saned -> ../init.d/saned
lrwxrwxrwx 1 root root 23 d'abr. 24 2024 S01spice-vdagent -> ../init.d/spice-vdagent
lrwxrwxrwx 1 root root 13 de set. 17 19:56 S01ssh -> ../init.d/ssh
lrwxrwxrwx 1 root root 14 d'abr. 24 2024 S01sssd -> ../init.d/sssd
lrwxrwxrwx 1 root root 17 d'abr. 24 2024 S01sysstat -> ../init.d/sysstat
lrwxrwxrwx 1 root root 29 d'abr. 24 2024 S01unattended-upgrades -> ../init.d/unattended
lrwxrwxrwx 1 root root 15 d'abr. 24 2024 S01uuidd -> ../init.d/uuidd
lrwxrwxrwx 1 root root 18 d'abr. 24 2024 S01whoopsie -> ../init.d/whoopsie
root@hugogd:/etc/rc5.d#
```

Con el systemd-analyze podremos ver cuanto esta tardando en arrancar el servicio del nivel en el que estamos en este caso el graphical

```
root@hugogd:/etc/rc5.d# systemd-analyze
Startup finished in 2.313s (kernel) + 6.692s (userspace) = 9.006s
graphical.target reached after 6.662s in userspace.
root@hugogd:/etc/rc5.d#
```

Y para ver lo que tardan todos los servicios podemos usar el comando systemd-analyze blame

```
root@hugogd:/etc/rc5.d# systemd-analyze blame
2.991s plymouth-quit-wait.service
2.258s snapd.seeded.service
2.189s snapd.service
1.370s NetworkManager.service
930ms snapd.apparmor.service
902ms systemd-resolved.service
876ms apport.service
824ms systemd-oomd.service
823ms systemd-binfmt.service
820ms systemd-timesyncd.service
691ms e2scrub reap.service
632ms dev-sda2.device
479ms dev-loop9.device
474ms dev-loop8.device
468ms dev-loop10.device
467ms dev-loop11.device
464ms dev-loop12.device
464ms dev-loop13.device
451ms accounts-daemon.service
379ms gnome-remote-desktop.service
334ms rsyslog.service
320ms power-profiles-daemon.service
315ms polkit.service
310ms udisks2.service
288ms apparmor.service
283ms gpu-manager.service
276ms ModemManager.service
256ms NetworkManager-wait-online.service
230ms arub-common.service
```