lines 1-13/13 (END)

```
sboxes@osboxes:~$ sudo gedit /usr/bin/palvelu.sh
[sudo] password for osboxes:
sudo: gedit: command not found
osboxes@osboxes:~$ man gedit
No manual entry for gedit
osboxes@osboxes:~$ sudo touch /usr/bin/palvelu.sh
osboxes@osboxes:~$ clear
osboxes@osboxes:~$ nano usr/bin/esimerkki.sh
osboxes@osboxes:~$ naho usr/bin/esimerkki.sh
osboxes@osboxes:~$
osboxes@osboxes:~$
osboxes@osboxes:~$ sudo naho /usr/bin/esimerkki.sh
osboxes@osboxes:~$ chmod +x /usr/bin/esimerkkki.sh
chmod: cannot access '/usr/bin/esimerkkki.sh': No such file or directory
osboxes@osboxes:~$ sudo chmod +x /usr/bin/esimerkkki.sh
chmod: cannot access '/usr/bin/esimerkkki.sh': No such file or directory osboxes@osboxes:~$ sudo chmod +x usr/bin/esimerkkki.sh
chmod: cannot access 'usr/bin/esimerkkki.sh': No such file or directory
osboxes@osboxes:~$ sudo chmod +x /usr/bin/esimerkki.sh
osboxes@osboxes:~$
osboxes@osboxes:~$
osboxes@osboxes:~$ sudo nano /etc/systemd/system/esimerkkipalvelu.service
osboxes@osboxes:~$ sudo chmod 644 /etc/systemd/system/esimerkkipalvelu.service
osboxes@osboxes:~$ sudo systemctl start esimerkkipalvelu
osboxes@osboxes:~$ sudo systemctl status esimerkkipalvelu
                                                                     osboxes@osboxes: ~
File Edit View Search Terminal Help
 esimerkkipalvelu.service - Esimerkkipalvelu.
Loaded: loaded (/etc/systemd/system/esimerkkipalvelu.service; disabled; vendor preset: enabled)
Active: active (running) since Mon 2020-05-18 20:47:31 EEST; 22s ago
Main PID: 28973 (bash)
     Tasks: 2 (limit: 2318)
    CGroup: /system.slice/esimerkkipalvelu.service

-28973 /bin/bash /usr/bin/esimerkki.sh

-28975 sleep 15s
May 18 20:47:31 osboxes systemd[1]: Started Esimerkkipalvelu..
May 18 20:47:31 osboxes bash[28973]: Esimerkkipalvelu starttasi
May 18 20:47:31 osboxes bash[28973]: Palvelu käynnissä, esitä teksti 15 sec välein
May 18 20:47:46 osboxes bash[28973]: Palvelu käynnissä, esitä teksti 15 sec välein
```

```
osboxes@osboxes: ~
                        Edit View Search Terminal Help
  o<mark>sboxes@osboxes:~$</mark> systemctl list-units --type service --state running
UNIT LOAD ACTIVE SUB DESCRIPTION
UNIT LOAD ACTIVE SUB DESCRIPTION

accounts-daemon.service loaded active running Accounts Service acpid.service loaded active running ACPI event daemon avahi-daemon.service loaded active running Manage, Install and Generate Color Profiles cron.service loaded active running Manage, Install and Generate Color Profiles cron.service loaded active running Make remote CUPS printers available locally cups.browsed.service loaded active running CUPS Scheduler loaded active running CUPS Scheduler loaded active running D-Bus System Message Bus esimerkkipalvelu.service loaded active running Esimerkkipalvelu. getty@ttyl.service loaded active running Getty on ttyl kerneloops.service loaded active running Tool to automatically collect and submit kernel crash signatures loaded active running Light Display Manager loaded active running Loaded
 UNIT
  NetworkManager.service
packagekit.service
                                                                                                                                                       loaded active running Network Manager
loaded active running PackageKit Daemon
                                                                                                                                                     loaded active running PackageKit Daemon
loaded active running Authorization Manager
loaded active running Postfix Mail Transport Agent (instance -)
loaded active running System Logging Service
loaded active running RealtimeKit Scheduling Policy Service
loaded active running Journal Service
loaded active running Login Service
loaded active running Network Name Resolution
loaded active running Network Time Synchronization
loaded active running Metwork Time Synchronization
 postfix@-.service
rsyslog.service
rtkit-daemon.service
systemd-journald.service
systemd-logind.service
systemd-resolved.service
   systemd-timesyncd.service
                                                                                                                                                    loaded active running Network Time Synchronization loaded active running udev Kernel Device Manager loaded active running Disk Manager loaded active running Daemon for power management loaded active running User Manager for UID 1000 loaded active running User Manager for UID 1001 loaded active running User Manager for UID 1002 loaded active running Daemon for generating UUIDs loaded active running WPA supplicant
  systemd-udevd.service
udisks2.service
  upower.service
user@1000.service
   user@1001.service
  user@1002.service
   wpa supplicant.service
                                                                                                                                            loaded active running WPA supplicant
LOAD \,=\, Reflects whether the unit definition was properly loaded. lines 1-36
```

3.

rsyslog on enabled ja running. Sen PID on 23610.

rsyslog on turvallinen, tehokas ja tämän myötä myös laajalti käytetty loki ohjelma linux järjestelmille.

4.

```
Osboxes@osboxes:-$ sudo systemctl restart rsyslog
[sudo] password for osboxes:
Osboxes@osboxes:-$ systemctl status rsyslog
Orsyslog.service - System Logging Service
Loaded: loaded (/lib/system/rsyslog.service; enabled; vendor preset: enabled)
Active: active (running) since Tue 2020-05-19 13:23:27 EEST; 3s ago
Docs: man:rsyslogd(8)
Orsyslogd(8)
Orsyslogd(8)
Docs: man:rsyslogd(8)
Tasks: 4 (limit: 2318)
CGroup: /system.slice/rsyslogd
CGroup: /system.slice/rsyslogd.service
--29384 /usr/sbin/rsyslogd -n

May 19 13:23:27 osboxes systemd[1]: Starting System Logging Service...
May 19 13:23:27 osboxes rsyslogd[29384]: imuxsock: Acquired UNIX socket '/run/systemd/journal/syslog' (fd 3) from systemd. [v8.32.0]
May 19 13:23:27 osboxes systemd[1]: Started System Logging Service.
May 19 13:23:27 osboxes rsyslogd[29384]: rsyslogd's groupid changed to 106
May 19 13:23:27 osboxes rsyslogd[29384]: rsyslogd's userid changed to 102
May 19 13:23:27 osboxes rsyslogd[29384]: [origin software="rsyslogd" swVersion="8.32.0" x-pid="29384" x-info="http://www.rsyslog.com"] start osboxes@osboxes:-5
```

5.

PID on 30216, status kertoo onko palvelu aktiivinen, sen PID:n ja lokia palvelun toiminnasta, riippuen mitä ajettava palvelu sisältää.

