Device Drivers Lab 4

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Daemons

A daemon is a type of program on Unix-like operating systems that runs unobtrusively in the background, rather than under the direct control of a user, waiting to be activated by the occurrence of a specific event or condition. Daemons are usually instantiated as processes.

```
(base) prateek@Prateek-PC:~$ service --status-all
 [ + ]    acpid
 [ - ]    alsa-utils
 [ + ]    anacron
 [ + ]    apparmor
 [ + ]    apport
 [ + ]    avahi-daemon
 [ + ]    bluetooth
 [ - ]    console-setup.sh
 [ + ]    cron
 [ + ]    cups
 [ + ]    cups-browsed
 [ + ]    dbus
 [ - ]    gdm3
 [ - ]    grub-common
 [ - ]    hwclock.sh
 [ + ]    irqbalance
 [ + ]    kerneloops
 [ - ]    keyboard-setup.sh
 [ + ]    kmod
 [ + ]    lightdm
 [ - ]    lvm2
 [ - ]    lvm2-lvmpolld
 [ + ]    network-manager
 [ + ]    openvpn
 [ - ]    plymouth
 [ - ]    plymouth-log
 [ - ]    pppd-dns
 [ + ]    procps
 [ - ]    pulseaudio-enable-autospawn
 [ - ]    rsync
 [ + ]    rsyslog
 [ - ]    saned
 [ - ]    speech-dispatcher
 [ - ]    spice-vdagent
 [ + ]    ssh
 [ + ]    udev
 [ + ]    ufw
 [ + ]    unattended-upgrades
 [ - ]    uuidd
 [ + ]    virtualbox
 [ + ]    whoopsie
 [ - ]    x11-common
(base) prateek@Prateek-PC:~$ 
```

1. **AppArmor** (Application Armor) is a Linux security module that protects an operating system and its applications from security threats. Docker expects to find an AppArmor policy loaded and enforced. Docker automatically generates and loads a default profile for containers named docker-default.
2. **saned** is the SANE (Scanner Access Now Easy) daemon that allows remote clients to access image acquisition devices available on the local host.
3. The **acpid daemon** provides intelligent power management on a system and allows to query battery and configuration status by supporting the Advanced Configuration and Power Interface (ACPI). It does so as it opens an events file (/proc/acpi/event by default) and reads all the lines.
4. The **uuidd** daemon is used by the UUID library to generate universally unique identifiers (UUIDs), especially time-based UUIDs, in a secure and guaranteed-unique fashion, even in the face of large numbers of threads running on different CPUs trying to grab UUIDs.
5. The **bluetoothd** daemon, which manages all the Bluetooth devices. **bluetoothd** itself does not accept many command-line options, as most of its configuration is done in the**/etc/bluetooth/main.conf** file, which has its own man page. **bluetoothd** can also provide a number of services via the D-Bus message bus system.
6. **Alsa-utils**- his package contains the command line utilities for the ALSA project. The package can be compiled only with the installed ALSA driver and the ALSA C library (alsa-lib).
7. **Anacron** ensures that each job is run at the scheduled interval; there is no specific time guaranteed for these jobs to be run. Each time the job is run, the timestamp file /var/spool/anacron/cron.
8. **OpenVPN** is a Virtual Private Networking (VPN) solution provided in the Ubuntu Repositories. It is flexible, reliable and secure. It belongs to the family of SSL/TLS VPN stacks (different from IPSec VPNs).
9. the **NetworkManager** daemon, the actual software which manages connections and reports network changes. several graphical front-ends for diverse graphical desktop environments, such as GNOME Shell, GNOME Panel, KDE Plasma Workspaces, Cinnamon, etc.
10. **irqbalance** is a Linux daemon that distributes interrupts over among the processors and cores in your computer system. The design goal of irqbalance is to find a balance between power savings and optimal performance. This allows a given set of CPU's to not be bothered by any interrupt service load.