4.13. SYSTEMCTL 1



## Exercise 4.2 Adding a New Startup Service with systemd

As mentioned in the previous exercise, you can still use the SysVinit startup script procedure with systemd but this is deprecated.

The analogous procedure is to create (as root) a file directly under /etc/systemd/system or somewhere else in that directory tree; distributions have some varying tastes on this. For example a very minimal file named /etc/systemd/system/fake2.service:

```
[Unit]
Description=fake2
After=network.target

[Service]
ExecStart=/bin/sh -c '/bin/echo I am starting the fake2 service ; /bin/sleep 30'
ExecStop=/bin/echo I am stopping the fake2 service

[Install]
WantedBy=multi-user.target
```

Now there are many things that can go in this **unit** file. The After=network.target means the service should start only after the network does, while the WantedBy=multi-user.target means it should start when we reach multiple-user mode. This is equivalent to runlevels 2 and 3 in **SysVinit**. Note graphical.target would correlate with runlevel 5.

Now all we have to do to start, stop and check the service status are to issue the commands:

```
$ sudo systemctl start fake2.service
$ sudo systemctl status fake2.service
$ sudo systemctl stop fake2.service
```

If you are fiddling with the unit file while doing this you'll need to reload things with:

```
$ sudo systemctl daemon-reload
```

as the system will warn you.

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To keep an eye directly on the output you can do:

```
$ sudo tail -f /var/log/messages
```

(use /var/log/syslog on Ubuntu) either in background or in another windows while the service is running.

To set things up so the service turns on or off on system boot:

```
$ sudo systemctl enable fake2.service
$ sudo systemctl disable fake2.service
```

Once again, you really need to reboot to make sure it has taken effect.

