39.8. LABS



Exercise 39.2: 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 (which can be extracted from your downloaded SOLUTIONS file as fake2.service) containing the following:

```
[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.

