SNA Lab 3 - Domains & Daemons (one and half week)

Task 1 - Boot-loader

- Make the boot-loader menu appear on your server
- Make sure the startup of services is shown
- Make sure it boots in non-graphical mode
- (bonus) if that's already the case you can partly do it on your workstation

Task 2 - Name resolution

Internal network – define a static name resolution on your client

Public network – define an address on the public network. You can use the DNS hosting services of your own if you have any and show its setup. Otherwise send the *zone file* configuration line to @pbraun needs to add and you will get <yourhost>.os3.su. Bonus: also provide an alias for your first name.

Task 3 - HTTPD

- build any HTTP daemon from source (bonus: or designate an app for e.g. web socket)
- configure it so it serves some folder with a dummy index file (or directory listing)
- start and enable it at startup
- run a another software for reverse-proxy (possibly on the same host) to provide the service to the world or internal network
- (bonus) enable SSL (can be combined with reverse-proxy)
- validate the service remotely and with name resolution

Task 4 - CROND

- (bonus) build crond and enable it at boot time instead of distro's one
- create a simple daily cron job as root, for example for backing up /etc/ or /var/ regularly
- configure your mail relay accordingly and using its DNS name, whatever public or internal
- get your cron job reports on your true email address
- (bonus) check if the message went through STARTTLS between the MX end-points

Task 5 - FTPD

- switch to an infrastructure that allows you to do NAT
- build any FTP daemon from source
- run it in your DMZ
- NAT it so it can be reached passively from the world or internal network
- (bonus) enable SSL (either built-in or e.g. Stunnel or Hitch)
- validate the service remotely and with name resolution