



Exercise 38.1: Booting into Non-Graphical Mode Using GRUB



Please Note

This exercise requires that it be run from the console (i.e., not over **SSH**).

1. Reboot your machine and go into the **GRUB** interactive shell by hitting **e** (or whatever other key is required as listed on your screen.)
2. Make your system boot into non-graphical mode. How you do this depends on the system.
On traditional systems that respect **runlevels** (which we will talk about in the next section) you can append a 3 to the kernel command line in the specific entry you pick from the **GRUB** menu of choices. This will still work on more recent **systemd** machines that emulate **SysVinit** runlevels.
On some other systems you may need to append `text` instead.
3. Hit the proper key to make system continue booting.
4. After the system is fully operational in non-graphical mode, bring it up to graphical mode. Depending on your system, one of the following commands should do it:

```
$ sudo systemctl start gdm
$ sudo systemctl start lightdm
$ sudo telinit 5
$ sudo service gdm restart
$ sudo service lightdm restart
```