Lab 3.1: Booting into Non-Graphical Mode Using GRUB

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.

   On some other systems (including **Ubuntu**) you 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 telinit 5
$ sudo service gdm restart
$ sudo service lightdm restart
$ sudo systemctl start gdm
$ sudo systemctl start lightdm
```