

Fastai Ubuntu server setup

jueves, 16 de febrero de 2023 07:37 a. m.

After installing ubuntu server (20.04):

```
Sudo apt-get update
Sudo apt-get upgrade
Sudo apt update
Sudo apt upgrade
reboot
```

While performing the reboot, it got stuck when trying to shut down showing:

```
[ 1512.450737] systemd-shutdown [1]: Waiting for process: systemd-udev, systemd-udev
[ 1602.455100] systemd-shutdown [1]: Waiting for process: systemd-udev | 1692.561251] shutdown
[1]: Waiting for process: systemd-udev
```

I found out this was due to Nvidia drivers, so I installed them following this guide <https://forums.fast.ai/t/platform-local-server-ubuntu/65851>:

```
sudo add-apt-repository ppa:graphics-drivers/ppa
sudo apt update
sudo apt install nvidia-driver-510
```

NOTE: 510 was the latest driver I could get to work with my GeForce RTX 3060 graphics card. Current driver is 525 (maybe 515 could work, but more recent versions presented a bug that froze the computer upon startup and couldn't get by using recovery mode).

After this, a blue screen 'Mok' showed asking for a password. I entered the password and then rebooted.

Upon rebooting, a similar blue screen showed asking for the password, I entered it, accepted the key it provided, and continued with the booting.

As the screen froze on booting, I found out that I could only boot on recovery mode. I fixed this by following this tutorial [How to Fix Ubuntu Linux Freezing on Boot](#). The video's summary is to edit and update grub:

```
sudo vim /etc/default/grub
```

Then, there will be a line `GRUB_CMDLINE_LINUX_DEFAULT=""` which could be empty or not. Just add 'nomodeset':

```
GRUB_CMDLINE_LINUX_DEFAULT="nomodeset"
```

Save and exit, then run:

```
sudo update-grub
reboot
```

After rebooting everything ran smoothly. I ran 'nvidia-smi' and the data table popped up, so in theory everything was set up correctly:

nvidia-smi

```
NVIDIA-SMI 510.108.03   Driver Version: 510.108.03   CUDA Version: 11.6
+-----+-----+-----+-----+-----+-----+
GPU  Name           Persistence-M| Bus-Id         Disp.A | Volatile Uncorr. ECC
Fan  Temp   Perf   Pwr:Usage/Cap|             Memory-Usage | GPU-Util  Compute M.
=====+=====+=====+=====+=====+=====+
  0   NVIDIA GeForce ...   Off   | 00000000:01:00.0 On   |           N/A
  0%   34C    P8    16W / 170W |         1MiB / 12288MiB |          0%   Default
                                     |                               |           N/A
+-----+-----+-----+-----+-----+-----+

Processes:
GPU  GI  CI      PID  Type  Process name          GPU Memory
   ID ID                                     Usage
=====+=====+=====+=====+=====+=====+
No running processes found
+-----+-----+-----+-----+-----+-----+
```

NOTE: The CUDA version is important, as I later found out that for CUDA Version 11.6 the pytorch version that would work is 1.12.1