1. Download RPi headless image and burn it to the uSD (using Etcher)
   1. <https://downloads.raspberrypi.org/raspbian_lite_latest> (2019-09-26-raspbian-buster-lite.img)
   2. <https://www.balena.io/etcher/>
2. Enable SSH
   1. Create a file named ‘ssh’ in the *boot* partition of the SD card
      1. The file should not have an extension type
      2. Once the PI boots it will delete this file and change the settings to allow for SSH connection
3. Configure Wi-Fi
   1. Make a file called wpa\_supplicant.conf and add wifi info
   2. Add *wpa\_supplicant.conf* file to *boot* partition as well.
      1. On start-up RPi will move the file to /etc/wpa\_supplicant/wpa\_supplicant.conf
4. Update Pi
   1. sudo apt-get update
   2. sudo apt-get install
   3. sudo apt-get install libatlas-base-dev (allows for numpy and pandas)
5. Install Vim
   1. sudo apt-get install vim -y
6. Change settings to allow us to SSH into *root* user
   1. sudo vim /etc/ssh/sshd\_config
   2. uncomment PermitRootLogin
   3. change ‘without-password’ to ‘yes’
   4. change password for root user
      1. passwd root
         1. \*password\*
   5. restart ssh script
      1. systemctl restart ssh.service
7. Install Git
   1. apt-get install git-core -y
8. Install pip3
   1. sudo apt install python3-pip
9. Setup nginx
   1. apt-get install nginx -y
   2. You should now be able to go to the Pi’s IP address in a browser and see nginx’s landing page
10. Make folder to hold files
    1. mkdir /home/pi/dashboard; cd dashboard
11. Nginx configuration
    1. remove the default configuration
       1. rm /etc/nginx/sites-enabled/default
    2. create new config file
       1. /home/pi/dashboard/vim dashboard\_app\_nginx.conf
       2. copy file dashboard\_app\_nginx.conf
12. Provide symbolic link between
    1. ln -s /home/pi/dashboard/dashboard\_app\_nginx.conf /etc/nginx
       1. creates this link in /etc/nginx
          1. lab\_app\_nginx.conf -> /var/conf.d/www/lab\_app/lab\_app\_nginx.conf
    2. restart nginx
       1. systemctl restart nginx
13. Transfer files to /home/pi/dashboard
    1. from windows terminal (in the directory of the file to transfer)
       1. scp \*filename\* root@192.168.155.52:/home/pi/dashboard/
    2. service files (like dash.service) go in /lib/systemd/system
14. Start dash.service (and the app) with systemctl
    1. systemctl start dash.service
    2. systemctl enable dash.service
15. Set-up terminal short-cuts in ~/.bashrc and ~/.bash\_alias
    1. <https://www.raspberrypi.org/documentation/linux/usage/bashrc.md>