deploy manual.md 5/11/2021

Steps to set up a new SD card for Student Use

Written by Nick Masso in May 2021.

The source of this file is at https://github.com/engr16x/projects-rpi-setup-6/blob/main/deploy_manual.md and should be edited on github first, then changes propagated to the GDrive and Eagle.

Pre-setup

Flash the sd card with the engr16x_v6 disk image. See the "Flashing an SD card" document. You do not have to decompress the .gz file for the imaging software to load the image correctly.

During setup

- 1. insert the new SD card into the raspberrypi stack you want to set up
- 2. connect the ethernet cable from the raspberrypi to your computer
- 3. Power on the RPi
- 4. SSH into the RPi with your client of choice.

From command prompt or terminal, the command is ssh pi@engr.local

Using putty, the host name is engr.local

5. Log in as the pi user. The password is raspberry

If the terminal says something about

```
The authenticity of host 'engr.local (fe80::bd18:7190:353e:e0ca%10)' can't be established.

ECDSA key fingerprint is SHA256:ep88C0p1HafwD4Yoa7lnVTspSaYosj9M2x68YkNKQRc.

Are you sure you want to continue connecting (yes/no)?
```

type yes and press enter.

- 6. Press the up arrow on your keyboard, this should show the command sudo /home/pi/projects-rpi-setup-6/deploy.sh
- 7. Press enter to begin deploy.
- 8. Follow the prompts on screen.
- 9. When complete, enter sudo poweroff to safely shut down the RPi. The green act light on the board should flash 10 times, and on the 10th flash should hold for a second and then turn off. This is how you know the RPi has completely powered down, and it is safe to unplug it.

Notes on using engr16x_v6

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• boat update will no longer work. it should be disabled if we are replacing all OS versions with 6, or have some check for which version it is running on.

- firmware updates should be performed using the ~/Desktop/UPDATE FILES/firmware_update_[board].sh scripts.
- elephant does not need to be run. The wifi channel randomization is preformed during setup automatically.
- file transfer should be simpler. Before trying winSCP or fileZilla, try simply copying and pasting files from your computer to the remote desktop session. The thinclient_drives directory may also show your computer's filesystem, depending on the setup.
- Also, copying and pasting text from one computer to another should always work.