RPi SETUP

Topi December 19, 2020

1. Burn 32 bit buster image using Rpi imager.
2. Create file “ssh” into boot partition.
3. Create file: wpa_supplicant.conf into boot partition.

```
country=SE
ctrl_interface=DIR=/var/run/wpa_supplicant GROUP=netdev
update_config=1

network={
ssid="#Telia-D5B7C8"
psk="*G41H*2r#pE-faR4"
}
```

4. So the wpa did not work with the telia ssid - needed to change that to nkai wifi and then worked... What the heck... Anyhow, then in `/etc/wpa_supplicant/` go and edit the file `sudo nano wpa_supplicant.conf` and add the other ssids...
5. `sudo pat update && sudo apt upgrade`
6. We try to install `https://github.com/mpromonet/v4l2rtspserver.git`
   - `sudo apt install git cmake`
   - `git clone https://github.com/mpromonet/v4l2rtspserver.git`
   - `cd v4l2rtspserver && sudo cmake .  && sudo make && sudo make install`
   - Now you can run: `v4l2rtspserver /dev/video0 &`
   - On you local machine: open vlc, media -> open network stream -> `rtsp://<rpi ip>:8554/unicast`
   - WORKS! Latency around 2sec.
   - `raspistill -v -o test.jpg`
7. Installed database `https://github.com/andymccurdy/redis-py`: `sudo apt get redis`, client: `pip3 install redis`
8. Redis is a server that is running on RPi. It is running there! Start, by `redis-server`
9. Subscribe from rpi to redis server - by python scipt.
10. On jetson write things into the database/server.