

Sub-Kelvin Lab Machine Setup

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1 Hardware

- Desktop computer with Intel i5-6500 @ 3.20 GHz
- Motherboard - ASUS with built in 1 GbE
- tp-link PCI Express Gigabit Network Adapter TG-3468
- tp-link PCI Express Wi-Fi Bluetooth 4.2 Adapter AC1200

2 Linux - Ubuntu 22.04 LTS Operating System Setup

We would like to install Ubuntu 22.04 long term support (LTS) until 24.04 LTS comes out next year. To install Ubuntu 22.04 LTS using a USB stick follow the tutorial:

Ubuntu tutorial - Install Ubuntu from USB stick

Using a Kingston USB stick with 32 GB of memory. Currently using another Ubuntu 22.04 system with Startup Disk Creator to burn Ubuntu iso image onto the USB:

Using Startup Disk Creator

3 Installing CCATpHive from git and Redis

Install git

```
sudo apt update  
sudo apt install git
```

Clone primecam_readout

```
git clone https://github.com/TheJabur/primecam_readout.git
```

Installing Redis-py

```
pip install redis==5.0.0
```

Install Redis

```
sudo apt install redis
```

3.1 setup Ethernet and redis.conf file

We have to setup the redis configuration file redis.conf with the right ip/ports and background daemon option as false. A copy of the redis.conf file installed in /etc/redis/redis.conf which we copied to the `primecam_readout` directory. We modify a few lines ...

Part of tutorial in progress