

BLE Inspector Instructions

The program can be run on a laptop or on a Raspberry Pi. All testing was done on a Macbook and a Raspberry Pi 3 B+. The program is written in Python 3 and must be run in Python 3.

1. Make sure Bluetooth is turned on in your device.

2. Install the following packages for python 3:

```
pybluez  
requests  
ipinfo  
tb-mqtt-client
```

3. Open the BLE_inspector.py file and make the following changes:

First, go to the comment 'STEP 1' which is on line 112, and follow the instructions to change the name of the bluetooth device you will be scanning for. You will make this change in two locations. It is a string value.

At this point the program can be run as is without the email messaging feature. If you want the email messaging feature continue below. Else, skip to #4.

*Note GMAIL accounts settings must be changed to allow 'less secure apps'.

Go to the comment 'STEP 2' which is on line 50, and follow the instructions to change the email configuration. You need to change the sender, receiver, and password(sender) to valid GMAIL addresses.

Finally, go to comment 'STEP 3' which is on line 139, and follow the instructions to uncomment the function call to the send_email function.

4. Run the program from the command line: `python3 BLE_inspector.py`

Output

To view the output on the ThingsBoard IoT dashboard login at:

<https://demo.thingsboard.io/login>

User: your_user

Pass: your_pass

Click on Dashboards

Click on RasPiMap

See map, click on orange tab for data.