

Raspberry Pi - Assignment

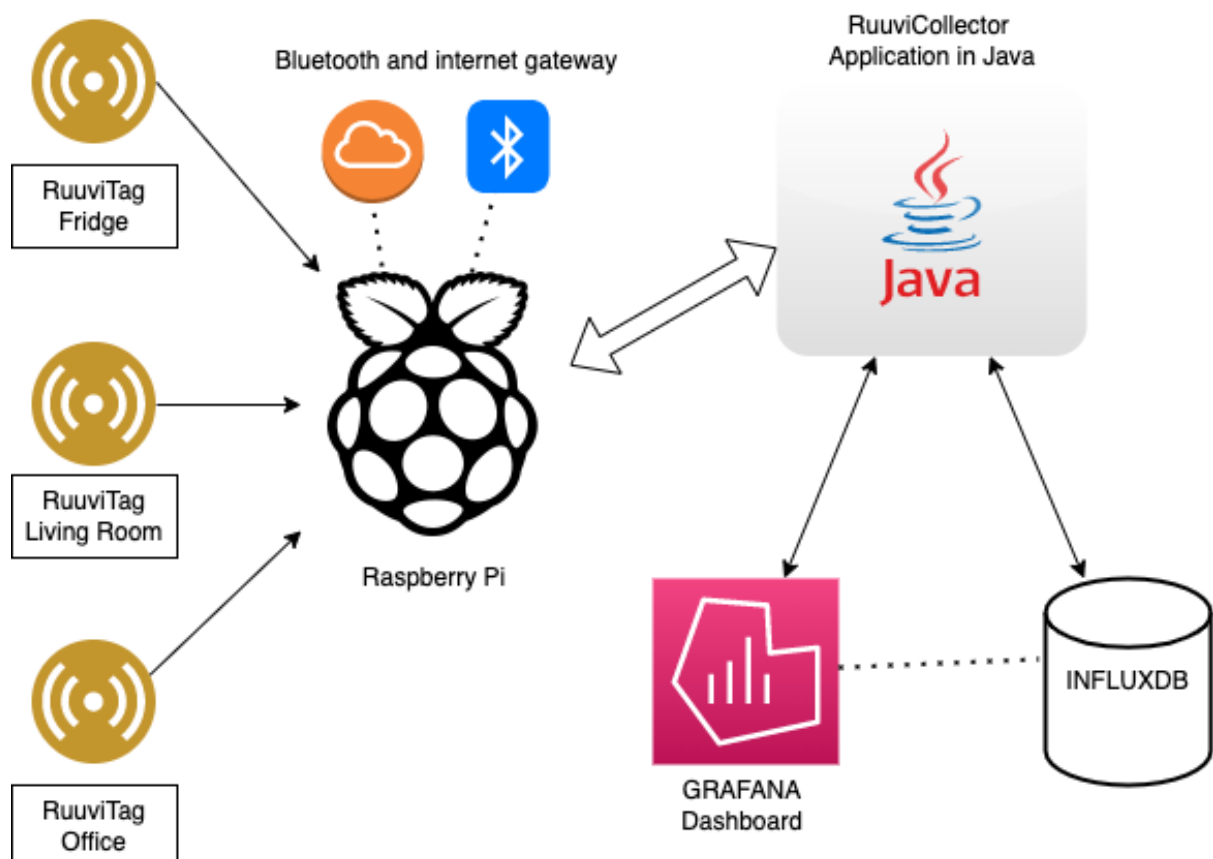
Youtube video below:

<https://youtu.be/xqXQSRmGkZ4>

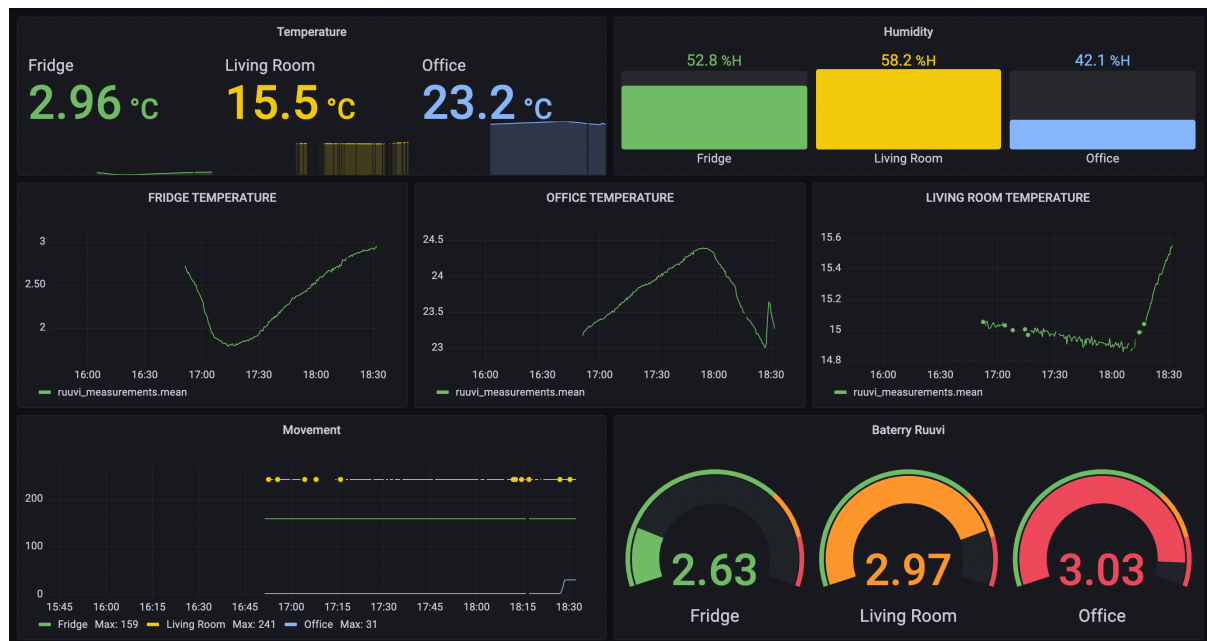
For this project I decided to use RuuviTags (packet of 3). RuuviTag sensors broadcasts their data (humidity, temperature, pressure etc.) via Bluetooth LE periodically. However RuuviTags are not set up with internet connectivity, therefore using Raspberry Pi is a perfect gateway. Raspberry Pi 3 has inbuilt BLE and WiFi and enough of processing power for this project.

Use case: monitoring temperature, humidity, dew point in 3 rooms (in my house). RuuviTags appear to be portable and can withstand high spectrum of temperature and provide more accurate information about each room.

Please see my git repo here for instruction how to set this up: <https://github.com/Eglebudina/ruuviTag.git>



Final view of the monitoring dashboard on Grafana available here:



Building parts

IoT solution using RuuviTags, Raspberry Pi and AWS Cloud:

- 3-pack of RuuviTags
- Raspberry Pi with accessories
- <https://github.com/Scrin/RuuviCollector.git>
- InfluxDB
- Grafana (dashboard)