

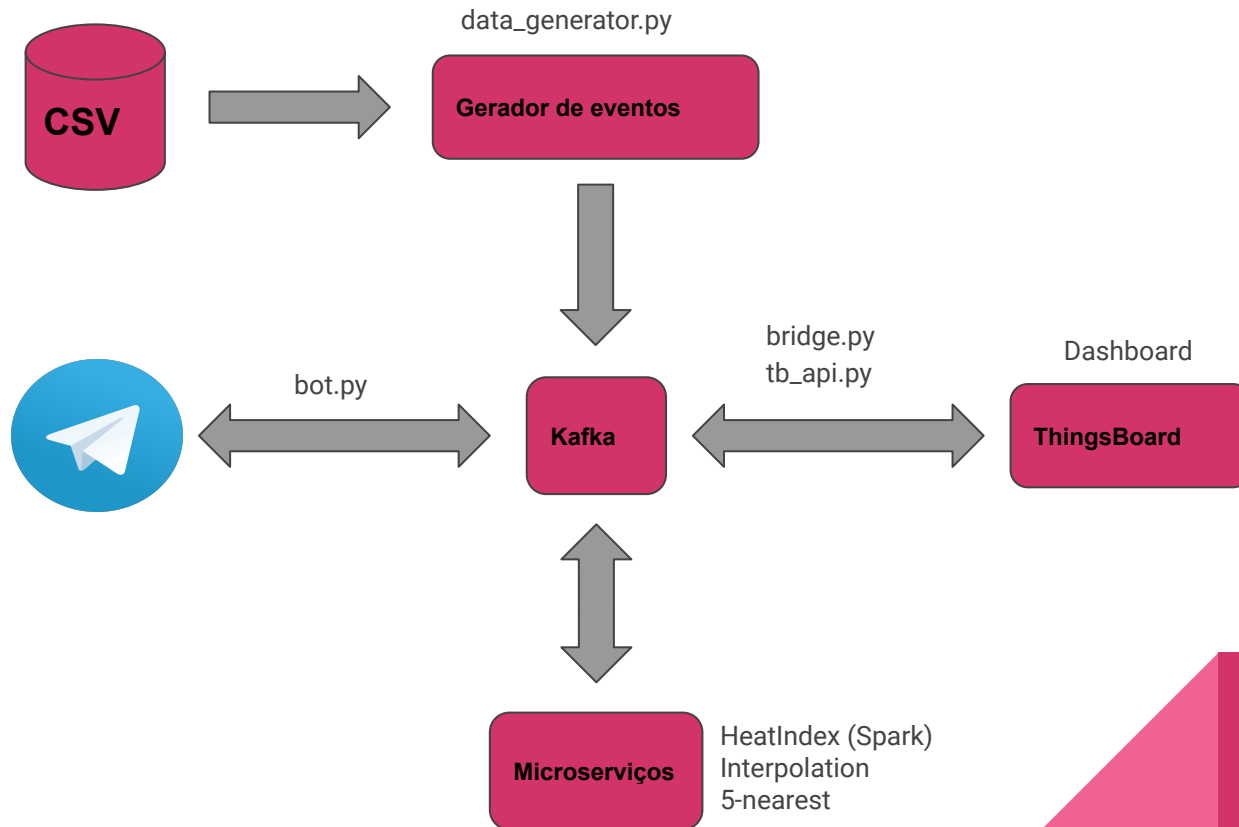
# Projeto de Sistemas Distribuídos

## Tratamento de dados do INMET

Aldemar Filho  
Antonio Soares

 [github.com/aldemarf/psd-201902](https://github.com/aldemarf/psd-201902)

# ThingsBoard



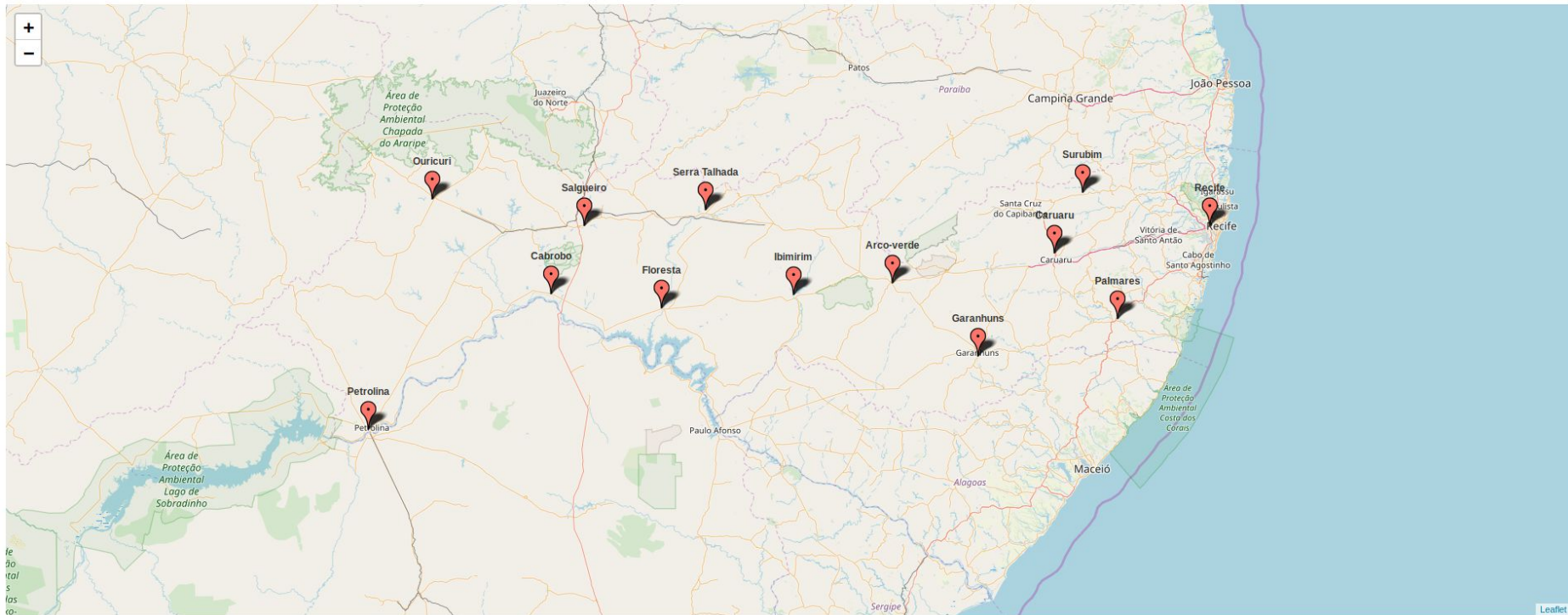
# O que utilizamos?

- Thingsboard
- Kafka
- Spark
- Python
  - Paho.MQTT
  - Kafka
  - Telebot



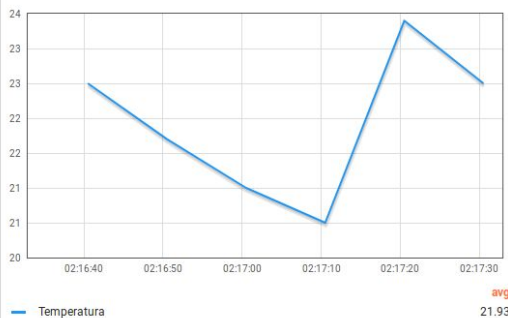
# ThingsBoard

Localização

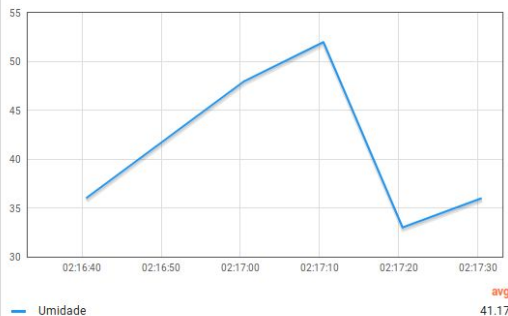


# ThingsBoard

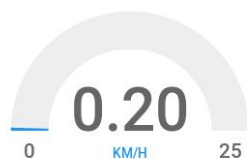
Temperatura (Celsius)



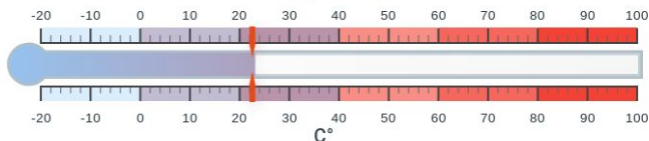
Umidade (%)



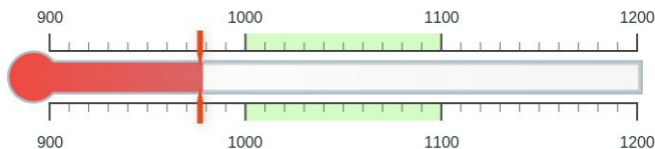
VELOCIDADE DO VENTO



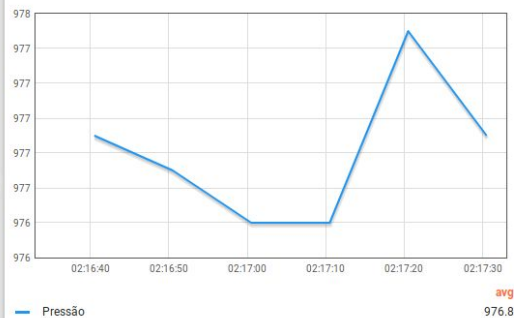
Temperatura



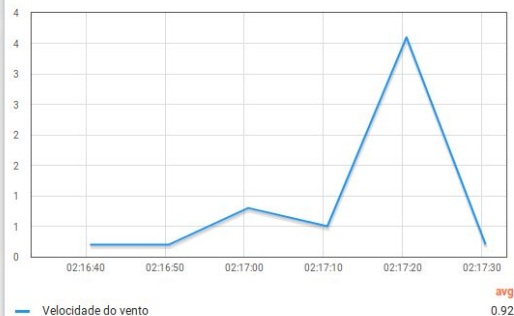
Pressão



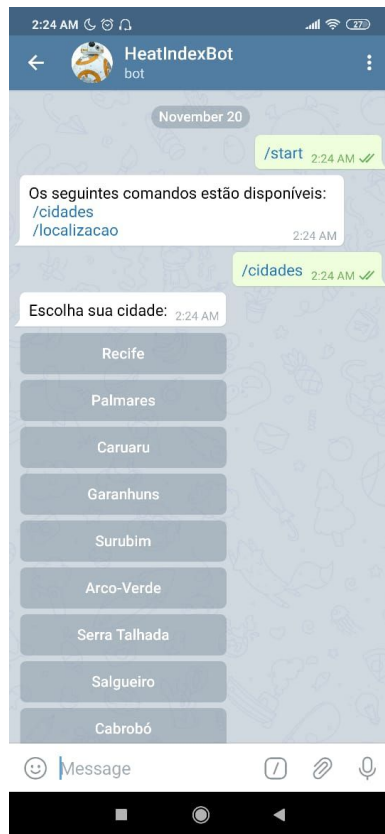
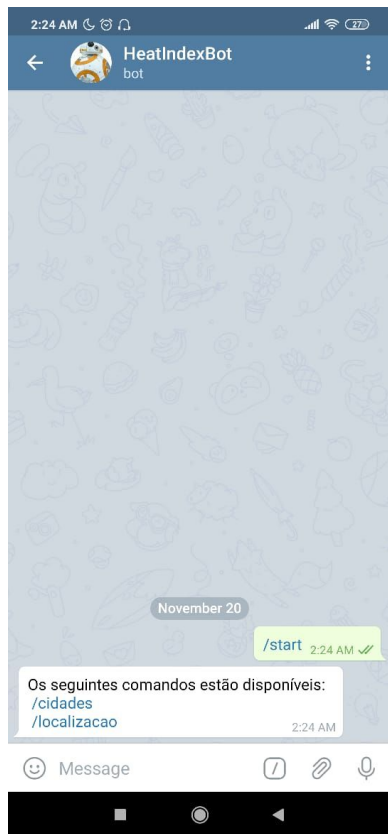
Pressão



Velocidade do vento (km/h)



# HeatIndexBot - Telegram



# HeatIndexBot - Telegram

