



# DIGITAL TWIN

## ERMUA ELEVATORS

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# SENSORIZACIÓN

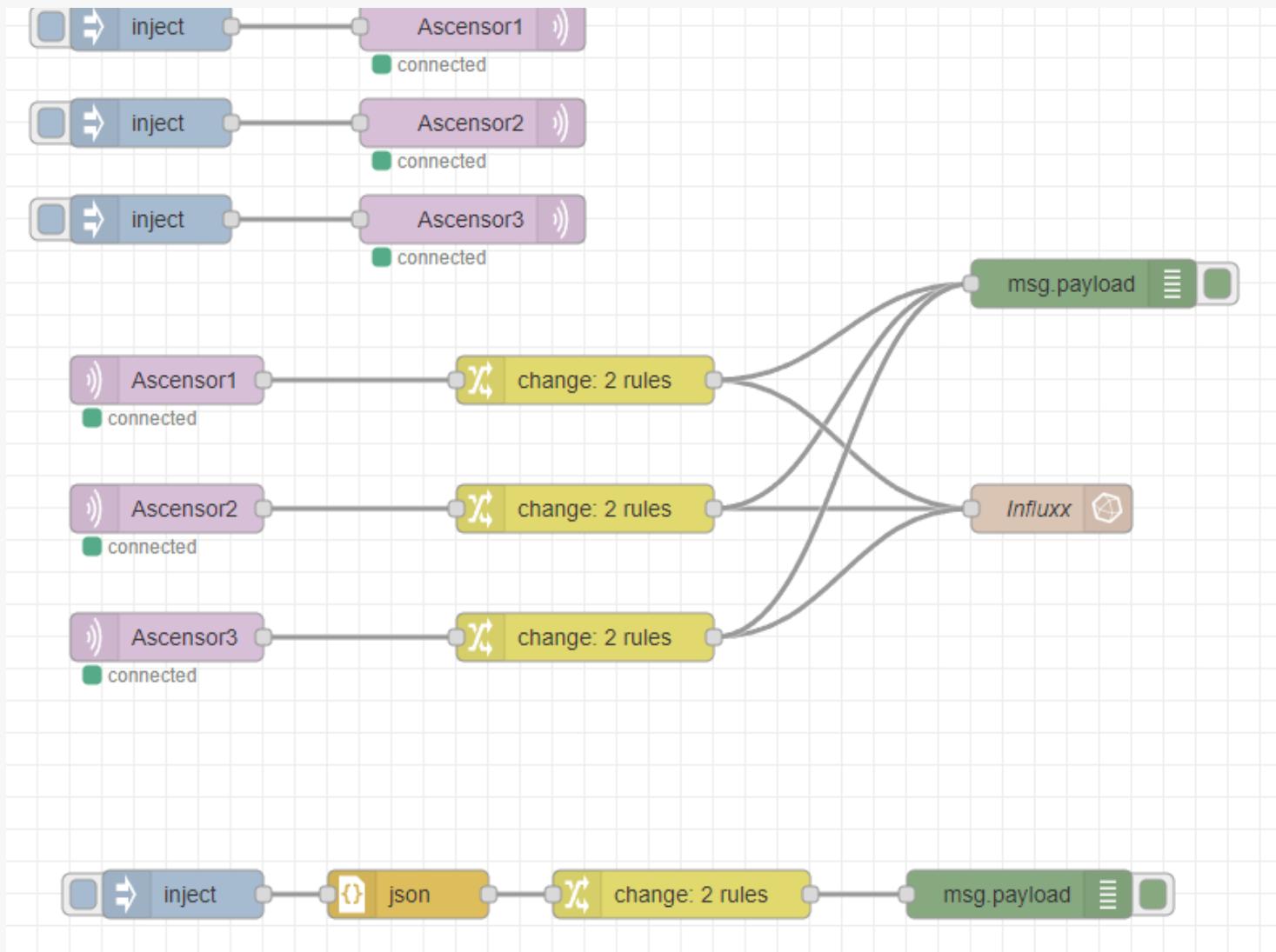


# MOSQUITTO

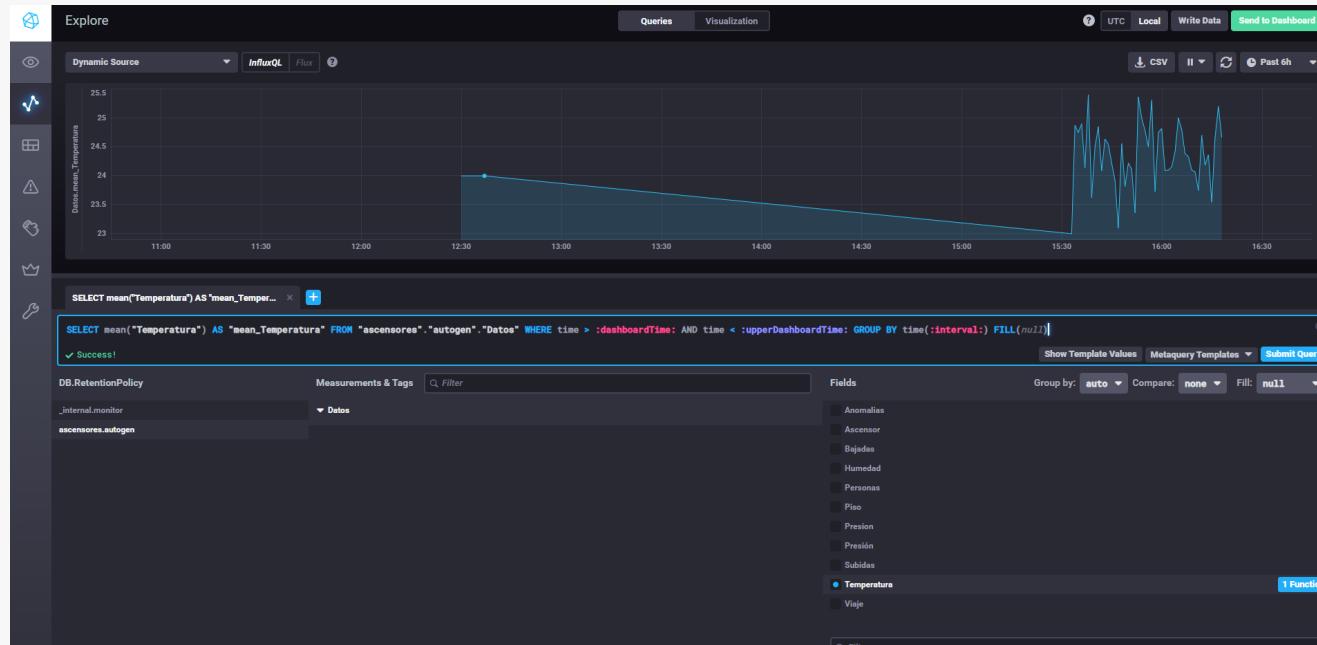
```
pi@Gorka:~ $ service mosquitto status
● mosquitto.service - Mosquitto MQTT v3.1/v3.1.1 Broker
  Loaded: loaded (/lib/systemd/system/mosquitto.service; enabled; vendor preset: enabled)
  Active: active (running) since Tue 2021-12-14 14:49:47 CET; 1h 51min ago
    Docs: man:mosquitto.conf(5)
          man:mosquitto(8)
   Main PID: 740 (mosquitto)
     Tasks: 1 (limit: 4915)
    CGroup: /system.slice/mosquitto.service
            └─740 /usr/sbin/mosquitto -c /etc/mosquitto/mosquitto.conf

dic 14 14:49:46 Gorka systemd[1]: Starting Mosquitto MQTT v3.1/v3.1.1 Broker...
dic 14 14:49:47 Gorka systemd[1]: Started Mosquitto MQTT v3.1/v3.1.1 Broker.
```

# NODE RED



# INFLUX DB



```
> select * from Datos  
name: Datos  
time          Anomalias Ascensor  Bajadas Humedad      Personas Piso Presión  Subidas Temperatura Viaje  
----  
163949758500000000 0      Ascensor1 2    96        2     0   1013 0    25    bajada  
163949759200000000 0      Ascensor2 3    91.8333333333 3     0   1024 0    26    bajada  
163949759500000000 0      Ascensor3 1    73        1     0   1027 0    26    bajada  
163949759600000000 0      Ascensor1 4    83.5      4     1   1030 0    22    bajada  
163949760000000000 0      Ascensor2 1    95.1666666667 1     0   1013 0    25    bajada  
163949760400000000 0      Ascensor3 2    94        2     1   1023 0    23    bajada  
163949760500000000 0      Ascensor1 3    92        3     0   1025 0    26    bajada  
163949761300000000 0      Ascensor2 1    83.5      1     1   1030 0    22    bajada  
163949761600000000 0      Ascensor3 2    94        2     0   1020 0    24    bajada  
163949762000000000 0      Ascensor1 4    75        4     2   1029 0    27    bajada  
163949762300000000 0      Ascensor2 0    84        2     1   1030 2    25    subida  
163949763200000000 0      Ascensor3 2    84        2     0   1030 0    25    bajada  
163949763800000000 0      Ascensor1 0    94        1     2   1020 1    24    subida  
163949764400000000 0      Ascensor2 0    84        0     1   1029 0    22    subida  
163949765400000000 0      Ascensor3 0    85        3     2   1029 3    25    subida  
163949766100000000 0      Ascensor1 2    75.6666666667 2     0   1029 0    24    bajada  
163949767100000000 0      Ascensor2 0    92        2     1   1017 2    25    subida  
163949767900000000 0      Ascensor3 1    96        1     0   1025 0    25    bajada  
163949768600000000 0      Ascensor1 4    76.3333333333 4     1   1029 0    24    bajada  
163949769500000000 0      Ascensor2 0    74        0     1   1023 0    26    bajada  
163949770500000000 0      Ascensor3 0    89        2     3   1017 2    24    subida  
163949771000000000 0      Ascensor1 3    76        3     0   1030 0    24    bajada
```

4

# CSV

```
[ ] from google.colab import drive
drive.mount('/content/drive')

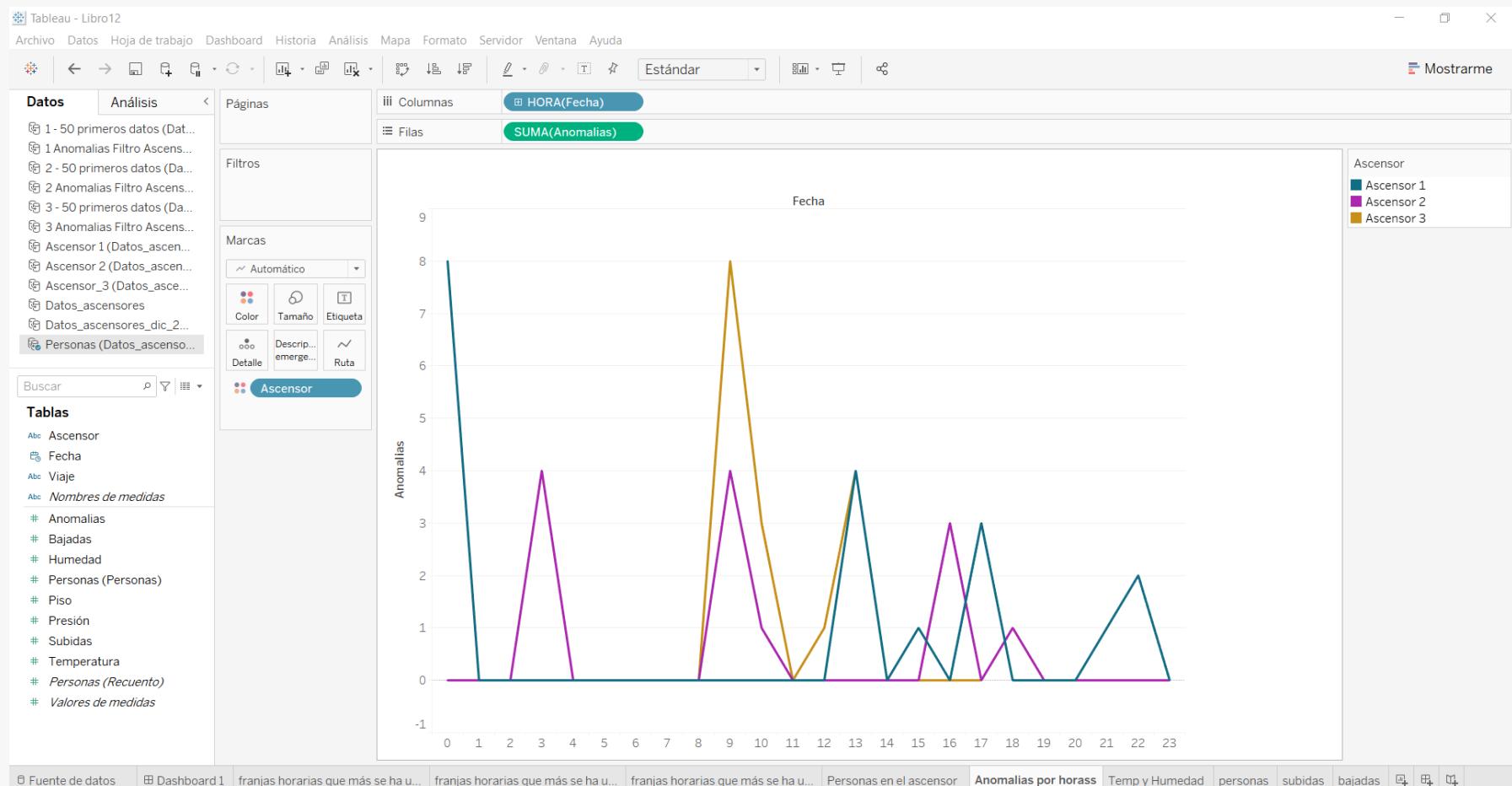
[ ] !python3 -m pip install influxdb

▶ from influxdb import InfluxDBClient
import json
import pandas as pd
import time
client = InfluxDBClient(host='masterimh.ddns.net', port=8086, username='pi', password='raspberry')

[ ] i =0
while True:
    i= i+1
    results = client.query('SELECT * FROM "Datos" ',database = 'ascensores').get_points()
    df = pd.DataFrame.from_records(results)
    df.to_csv('/content/drive/MyDrive/Master/Tecnologías Industriales/IMH TRABAJO TECNOLOGIAS INDUSTRIALES/Datos_ascensores.csv',index = None)
    print("Actualizado {0} veces ".format(i))

    time.sleep(5)
```

# TABLEAU



6

GMA Elevators





# ESKERRIK ASKO

## ERMUA ELEVATORS

<https://masterimh.github.io/Tecnologias-Industriales/>

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