## MQTT READER

OS- Linux Arm64 debian

Step 1: Installing Docker and Docker compose

- Docker required to be installed (i installed using get.docker.com).
- To install docker compose (sudo apt install docker-compose).

Step 2:Creating a Python Image with gmqtt subscribe code.

- I have attached Dockerfile and Python code which is required to create the image locally.
- Dockerfile includes all commands required to run the python script.
- Python code includes connect, subscribe and is storing received data in mqtt.log file which is binded to ~/livello/mqtt.log directory.

Step 3: Running Docker compose file to create mqtt broker and python container (requirements Step 1 and docker-compose.yml file)

- All files required to be in ~/livello/folder
- Run docker-compose up -d
- Then you'll see it starts pulling and building and when done the containers are up
- I checked the status of container using docker logs {containerid}
- Configuration to mosquitto broker has been done in order accept connections on 1883 port( Mosquittoconf folder contains the configuration file).

## How to run.

- Copy all files and folders in cp -r \* ~/livello
- Run docker compose command docker-compose up -d if you want to see the output of python script container then run docker-compose up
- To check container's status run docker logs {input containerid}
- Now python script has successfully subscribed to /event topic, if you publish on this topic logs will be taken in ~/livello/mqtt.log file.

## Runtime screenshots->







