1. Paho client installation

* C++: <https://github.com/eclipse/paho.mqtt.cpp>
* Python: pip isntall paho-mqtt

1. Run C++ file which uses paho mqtt e.x “test.cpp” file

* g++ test.cpp -v -o test -lpthread -lcrypto -lssl -lpaho-mqtt3as -lphano-mqttpp3
* ./test

THINGSBOARD CLOUD

Login: [henri.declercq@ugent.be](mailto:henri.declercq@ugent.be)

Pwd: 4\*\*\*\*\*\*\*3\*\*\*\*\*\*\*\*\*

addressOfBroker: thingsboard.cloud

portOfBroker: 1883

* ADD NEW DEVICE IN DEVICE GROUP ThingsViZ
* NEW DASHBOARD => NEW ALIAS OF ENTITY GROUP THINGSVIZ DEVICES

OR RUN THINGSBOARD LOCALLY WITH DOCKER OR ON DEVICE

1. Pipeline :

* C++ client adaptive sends the parameters to the python server and this server forwards the parameters to the thingsboard.cloud broker ExPLAIN DOCKER INSTALLATION AND PORTAINER AS WELL HANDY GUI AND METION DOCKER COMPOSE ISNTALL AS WELL

<https://vitux.com/how-to-install-portainer-dcoker-manager-in-ubuntu-20-04/>

<https://thingsboard.io/docs/user-guide/install/docker/>

portainer pswd: urbis

portainer username: adminaturbis

portainer port: 9000