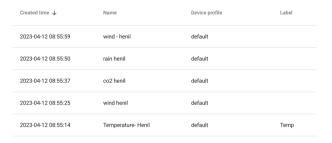
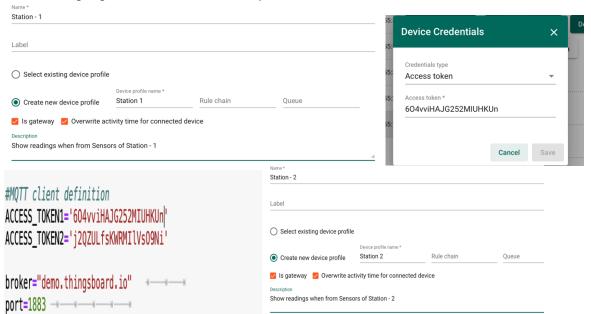
USE CASE: A station (at least one out of two) retrieves values (such as temperature, humidity...) from different sensors, and publish its state by an* MQTT Broker*, hosted by the Cloud Platform (Thingsboard dashboard).

Make account on thingsboard to create stations and the cloud service that shows sensor values from mgtt:

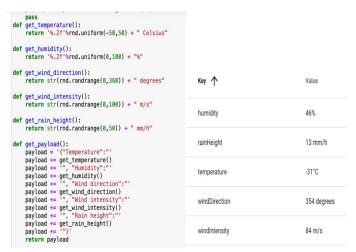


Create 2 station and their unique token and port should be open and configured for you to see dashboard. Match the access token here with the token in code, check for port number and token 2 and broker where your dashboard is going to be hosted are active and public.



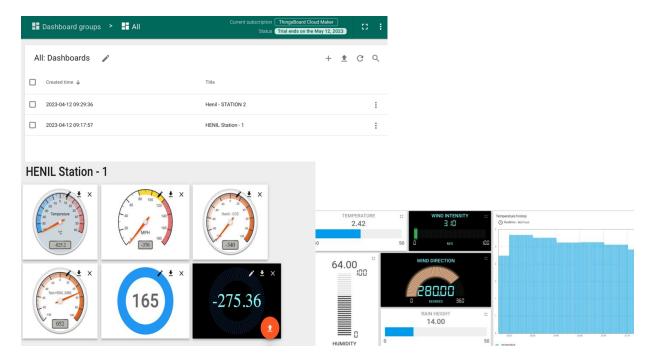
Generate payload and deploy: It is created using python and sent in JSON format, We can start the connection between the client and our broker using host:"demo.thingsboard.io", port:1883 and topic:"v1/devices/me/telemetry".

To complete the connection we need to paste our access token in "username" on line. It is important to have remote connection and only then will payload show active data and readings on dashboard. Also download necessary libraries to facilitate the connection with cloud service.



Websocket API and its authorization is needed for real time changes which can be derived from: X-Authorization token with this bash script: curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{"username":"assignment2hhv@thingsboard.org", "password":"henil"}' http://demo.thingsboard.io/api/auth/login.

View on Dashboard from station 1 or station 2:



Henil Station (1) and Henil Station (2) alongside.

Github Link: https://github.com/Henilv/IoT-assignment-2

HENIL V. (MS cybersecurity).