EnCo LoRa Kit :

Set up of a simple http endpoint for testing purpose

To test the forwarding of sensor data towards an http endpoint, you can use the vvandenschrieck/restapi Docker image as a testing base.

Have a look on the github repository : https://github.com/vvandenschrieck/docker-restapi, and read carefully the Dockerfile, the setupMysqlDB.sh script and the www/api.php script. You can fork this repository to adapt the source code to your own need.

To run a container based on this image, simply type :

docker run -p80:80 --name restapi –d vvandenschrieck/restapi:latest on the public server that will server as http endpoint.

This container contains a simple PHP/MySQL application that stores and prints data received in JSON format.

The PHP application simply parses the JSON records and inserts the values into the database based on the keys. It accepts key/values pairs based on the columns of the tables configured in the database.

The database in the image has been configured with a single table : HUMIDITY, and this tables has two columns : humidity_value and stream_value_time.

The table HUMIDITY is selected by the PHP app based on the URL of the request (i.e. http://<server IP/Name>/api.php/HUMIDITY). The PHP script will then extract the data from the JSON payload based on the keys « humidity_value » and « stream_value_time ».

If you wish to adapt this script to other sensor values, you must then :

- Change the mySQL database structure in the setupMysqlDB.sh script to reflect the new PATH in the URL (ex : http://<server>/api.php/LIGHT) and the key/values pairs in the payload (ex : light_value instead of humidity_value).
- Configure the CloudEngine Flow with the new PATH as output.