Project Report

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June 30, 2022

Searching the Dataset

MQTT

We used python with the paho mqtt library to contact the server and retrieve data. The script is located at `mqtt/capture.py` relative to the repository directory. The script first establishes a connection to the server, then subscribes to all topics with the `#` metacharacter and the listen for exactly 30 minutes. The result of the capture is then saved to the `data.json` file.

We then used the `data-processing.ipynb` notebook to clean and filter the captured values, resulting in 13 valid unique observations saved in the `mqtt_coords.txt` file.

Then we extracted manually other observation which we used to interact with Coap, namely those with the following topic and payload:

Topic	Payload
`coap/post/mixed/`	`?problem=memory`
`coap/post/mixed/`	`go to the Doctor of the BarrierReef`
`coap/lies`	`resources can be hidden, find all of them and you'll get a treasure`
`coap/hidden`	`find the HiddenTreasure in the BarrierReef`
`coap/resource`	`/root/BarrierReef/FishLocator?user=Dory`
`anemone/in/the/barrier/reef`	`/root/BarrierReef/Anemone?owner=Marlin`
`great/barrier/reef/with/post`	`/root/PostMe6?search=entry_post`
`other/coap/resource`	`/root/BarrierReef/Apps?fingerprint=True`
`other/coap/resource`	`&gps=False`
`other/coap/resource`	`wait for this A LOT!`

COAP