MQTT test repository

Based on https://codebase.zeiss.org/loT/MQTT by zophue

Testing

Test with browser application (websockets) at http://mitsuruog.github.io/what-mqtt/

Working example config.yml file (direct internet access necessary, not working via proxy):

server: test.mosquitto.org port: 1883 topic: test/mqtt/a transport: tcp ssl: use_ssl: false

Issues

- Proxy
 - Socks proxy necessary for MQTT http://stackoverflow.com/a/27839095/5276734 (WebSockets?)
 - "MQTT and HTTP Proxies seem to be one of the hardest challenges nowadays in corporate networks" https://groups.google.com/forum/#Itopic/mqtt/LDdrV5k2nek

Documentation

- paho MQTT Python client https://eclipse.org/paho/clients/python/docs/
- MQTT https://en.wikipedia.org/wiki/MQTT
- · Websockets proxy traversal https://en.wikipedia.org/wiki/WebSocket#Proxy_traversal

Sources: - https://www.dinotools.de/2015/04/12/mqtt-mit-python-nutzen - https://www.heise.de/developer/artikel/Kommunikation-ueber-MQTT-3238975.html

AWS IoT Suite

Follow the instructions from https://github.com/mariocannistra/python-paho-mutt-for-aws-iot

 $Read\ http://docs.aws.amazon.com/iot/latest/developerguide/protocols.html\ for\ MQTT\ protocols\ and\ ports\ at\ AWS$

Working example config.yml file (direct internet access necessary, not working via proxy):
server: 'data.iot.eu-central-1.amazonaws.com' topic: 'test/mqtt/a' transport: 'tcp' port: 8883 ssl: use_ssl: True caPath: 'lib/aws-iot-rootCA.crt' cert

Python dependencies

The file environment.yml contains all necessary packages for the Python code in this repository.

Use \$ conda env create --file environment.yml to create a new conda environment for this repository or update your current root environment with

\$ conda env update --file environment.yml --name root