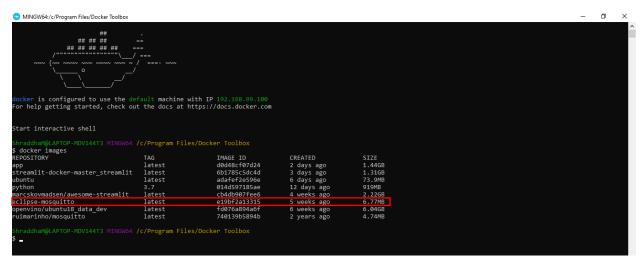
Steps to install and test Mqtt on Docker in Windows 10

Step 1: Install Docker

Download and Install Docker for Windows using the instructions provided at https://docs.docker.com/docker-for-windows/install/

Step 2: Pull the eclipse mosquitto image from docker hub using the following command:

Cmd 1: docker pull eclipse-mosquitto



<u>Step 3:</u> Run the docker image and start the mosquitto server / container using the following command:

Cmd 2: docker run -it --name mosquitto -p 1833:1833 eclipse-mosquitto

Following lines are displayed when we run the above command:

```
MINGW64/c/Program Files/Docker Toolbox

ShraddhaM@LAPTOP-MDV144T3 MINGW64 /c/Program Files/Docker Toolbox
$ docker run -it --name mosquitto -p 1833:1833 eclipse-mosquitto
1594608509; mosquitto version 1.6.10 starting
1594608509; config loaded from /mosquitto/config/mosquitto.conf.
15946080509; Opening ipv4 listen socket on port 1883.

1594608099; Opening ipv6 listen socket on port 1883.
```

<u>Step 4:</u> Open a new docker terminal window. Check whether the docker eclipse-mosquitto is up, using the following command:

Cmd 3: docker ps -a

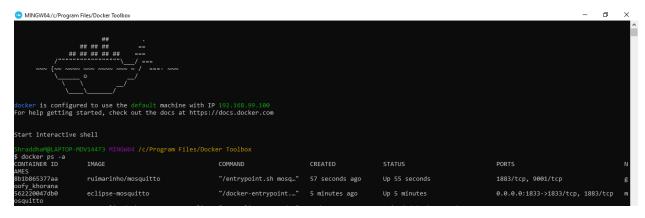


<u>Step 5:</u> We will now run the subscriber using docker mqtt client as follows:

Cmd 4: docker run --rm -it --link mosquitto ruimarinho/mosquitto mosquitto_sub -h mosquitto -t '#'

<u>Step 6:</u> We will now open a third docker terminal window. Again, check whether the docker eclipse-mosquitto is up, using the following command:

Cmd 5: docker ps -a



<u>Step 7:</u> Now we will publish a message which would be visible in the docker terminal two, where we ran our subscriber docker mqtt client. We will do this using the following command:

Cmd 6: docker run --rm -it --link mosquitto ruimarinho/mosquitto mosquitto_pub -h mosquitto -t home-assistant/switch/1/on -m "Testing eclipse-mosquitto on docker"

Below is the screenshot of how the messages get published:

```
MINGW64/c/Program Files/Docker Toolbox

ShraddhaM@LAPTOP-NDV144T3 NINGW64 /c/Program Files/Docker Toolbox
$ docker run --rm -it --link mosquitto ruimarinho/mosquitto mosquitto_sub -h mosquitto -t '#'

Testing eclipse-mosquitto on docker
```

<u>Step 8:</u> We can terminate the eclipse-mosquitto by pressing Ctrl + C.

```
**ShraddhaM@LAPTOP-MDV144T3 MINGW64 /c/Program Files/Docker Toolbox**

**ShraddhaM@LAPTOP-MDV144T3 MINGW64 /c/Program Files/Docke
```

References:

- [1] https://docs.docker.com/docker-for-windows/install/
- [2] http://blog.feabhas.com/2020/02/running-the-eclipse-mosquitto-mqtt-broker-in-a-docker-container/
- [3] https://stackoverflow.com/questions/62841247/how-to-test-mqtt-on-docker-in-windows