

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

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

```
#  
# #  
# # #  
# # # #  
#####  
=====
```

Docker is configured to use the default machine with IP 192.168.99.100
For help getting started, check out the docs at https://docs.docker.com

Start interactive shell

```
Sraddha@LAPTOP-MDV144T3 MINGW64 /c:/Program Files/Docker Toolbox  
$ docker images  


| REPOSITORY                        | TAG    | IMAGE ID      | CREATED     | SIZE   |
|-----------------------------------|--------|---------------|-------------|--------|
| app                               | latest | d0d08e4f7d24  | 2 days ago  | 1.44GB |
| streamlit-docker-master_streamlit | latest | 6b1785c5dc4d  | 3 days ago  | 1.31GB |
| ubuntu                            | latest | adafe2ae596e  | 6 days ago  | 73.9MB |
| python                            | 3.7    | 0t4d597185ae  | 12 days ago | 919MB  |
| marcskovmadsen/awesome-streamlit  | latest | cb4db907fee6  | 4 weeks ago | 2.22GB |
| eclipse-mosquitto                 | latest | e19bf2a13315  | 5 weeks ago | 6.77MB |
| openvino/ubuntu18_data_dev        | latest | fd076aa894a6f | 6 weeks ago | 6.04GB |
| ruiamarinho/mosquitto             | latest | 740139b5894b  | 2 years ago | 4.74MB |

  
Sraddha@LAPTOP-MDV144T3 MINGW64 /c:/Program Files/Docker Toolbox  
$
```

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

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

Following lines are displayed when we run the above command:



The screenshot shows a Windows command prompt window with the title bar "MINGW64/c/Program Files/Docker Toolbox". The prompt is at the user "shradhdha@LAPTOP-NOV144T3" in the directory "MINGW64 /c/Program Files/Docker Toolbox". The user has entered the command `$ docker run -it --name mosquitto -p 1833:1833 eclipse-mosquitto`. The output shows the Mosquitto version 1.6.10 starting, loading the configuration from `/mosquitto/config/mosquitto.conf`, and opening IPv4 and IPv6 listen sockets on port 1833.

```

MINGW64/c/Program Files/Docker Toolbox
shradhdha@LAPTOP-NOV144T3 MINGW64 /c/Program Files/Docker Toolbox
$ docker run -it --name mosquitto -p 1833:1833 eclipse-mosquitto
1594600509: mosquitto version 1.6.10 starting
1594600509: Config loaded from /mosquitto/config/mosquitto.conf.
1594600509: Opening ipv4 listen socket on port 1833.
1594600509: Opening ipv6 listen socket on port 1833.

```

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

Cmd 3: docker ps -a

