Setting up Mosquitto Broker on RPI

1. Open Raspberry Pi terminal and input the following commands.

```
pi@raspberry:~ $ sudo apt update
pi@raspberry:~ $ sudo apt install -y mosquitto mosquitto-clients
```
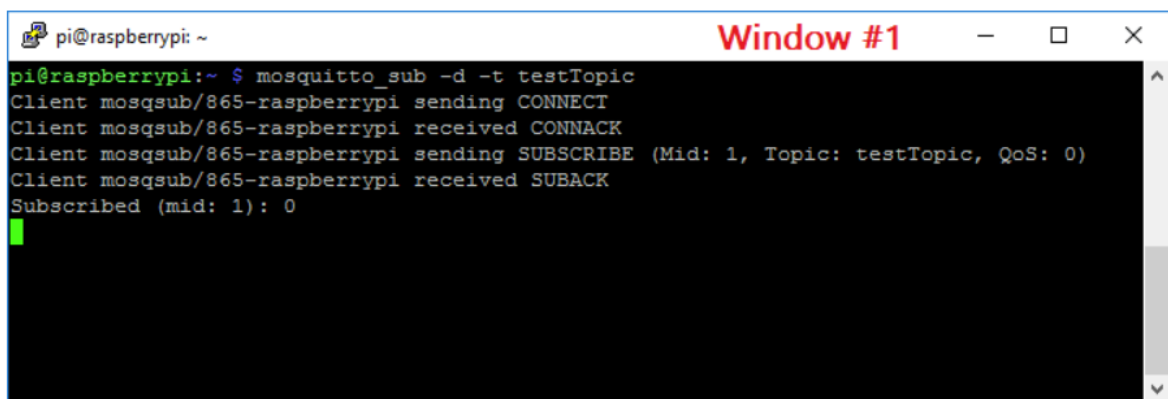
2. Type "Y" and press enter if you are asked to confirm installation.

3. Run Mosquitto on background as a daemon by typing the following command.

```
pi@raspberry:~ $ mosquitto -d
```

4. Open a new terminal and subscribe to an MQTT topic called "testTopic" by typing the following command.

```
pi@raspberry:~ $ mosquitto_sub -d -t testTopic
```



```
pi@raspberrypi:~ $ mosquitto_sub -d -t testTopic
Client mosqsub/865-raspberrypi sending CONNECT
Client mosqsub/865-raspberrypi received CONNACK
Client mosqsub/865-raspberrypi sending SUBSCRIBE (Mid: 1, Topic: testTopic, QoS: 0)
Client mosqsub/865-raspberrypi received SUBACK
Subscribed (mid: 1): 0
```

5. Open another terminal window and publish a "Hello World" message to the "testTopic" MQTT topic by typing the following command.

```
pi@raspberry:~ $ mosquitto_pub -d -t testTopic -m "Hello world!"
```

```
pi@raspberrypi: ~                          Window #2      —   □   ✕

pi@raspberrypi:~ $ mosquitto_pub -d -t testTopic -m "Hello world!"
Client mosqpub/868-raspberrypi sending CONNECT
Client mosqpub/868-raspberrypi received CONNACK
Client mosqpub/868-raspberrypi sending PUBLISH (d0, q0, r0, m1, 'testTopic', ... (12 by
tes))
Client mosqpub/868-raspberrypi sending DISCONNECT
pi@raspberrypi:~ $ ▮
```

```
pi@raspberrypi: ~                          Window #1      —   □   ✕

pi@raspberrypi:~ $ mosquitto_sub -d -t testTopic
Client mosqsub/867-raspberrypi sending CONNECT
Client mosqsub/867-raspberrypi received CONNACK
Client mosqsub/867-raspberrypi sending SUBSCRIBE (Mid: 1, Topic: testTopic, QoS: 0)
Client mosqsub/867-raspberrypi received SUBACK
Subscribed (mid: 1): 0
Client mosqsub/867-raspberrypi received PUBLISH (d0, q0, r0, m0, 'testTopic', ... (12 b
ytes))
Hello world!
▯
```

6. Open three additional windows and subscribe to your own topic. Then open two other windows and make them publishers to your MQTT topic. Publish some information to your MQTT topic from both publishers. The three subscribers should receive the information.