

<https://www.wingsquare.com/blog/setting-up-mqtt-mosquitto-broker-in-ubuntu-linux/>

Setting up MQTT Mosquitto broker in Ubuntu Linux

In this article we will see how to setup a Mosquitto broker for implementing MQTT communication.

1. Login to Ubuntu Linux with root privileges (sudo)

2. Add the mosquitto repository by given below commands

```
$sudo apt-add-repository ppa:mosquitto-dev/mosquitto-ppa
$sudo apt-get update
```

3. Execute the given below command to install the Mosquitto broker package

```
$sudo apt-get install mosquitto
```

4. Install Mosquitto developer libraries to develop MQTT clients

```
$sudo apt-get install libmosquitto-dev
```

5. Execute the given below command to install Mosquitto client packages

```
$sudo apt-get install mosquitto-clients
```

6. Ensure that Mosquitto broker is running

```
$sudo service mosquitto status
```

For the above command, expected result is `mosquitto start/running, process 8288` where 8288 is the process id and will vary from machine to machine

7. Testing

Open a terminal and issue the given below command to subscribe the topic "mqtt"

```
$mosquitto_sub -h localhost -t "mqtt" -v
```

Open another terminal and issue the given below command to publish message to the topic "mqtt"

```
$mosquitto_pub -h localhost -t "mqtt" -m "Hello MQTT"
```

Now the message "Hello MQTT" will be displayed in the first terminal where the topic "mqtt" is subscribed.