

link website: <https://mosquitto.org/2013/01/mosquitto-debian-repository/>

link youtube:

<https://www.youtube.com/watch?v=1CGfGuZqmhc&feature=youtu.be>

link website: <https://iotbytes.wordpress.com/mosquitto-mqtt-broker-on-raspberry-pi/>

In this Video, Step by Step Demonstration is being done regarding Installing Mosquitto Server (MQTT) on Raspberry Pi 3.

Steps to Install and Configure Mosquitto Server on Raspberry Pi 3:

Step 1: Update the System

```
#sudo apt-get update
```

Step 2: Update the System Repositories

```
#sudo wget http://repo.mosquitto.org/debian/mosquitto-repo.gpg.key
```

```
#sudo apt-key add mosquitto-repo.gpg.key
```

```
#cd /etc/apt/sources.list.d/
```

```
#sudo wget http://repo.mosquitto.org/debian/mosquitto-jessie.list
```

```
#sudo apt-get update
```

```
#sudo apt-get install mosquitto
```

Step 3: Install Three Parts of Mosquitto Proper

```
#sudo apt-get install mosquitto mosquitto-clients python-mosquitto
```

Step 4: Stop the Server

```
#sudo /etc/init.d/mosquitto stop
```

Step 5: Configuring and Starting the Mosquitto Server

```
#sudo nano /etc/mosquitto/mosquitto.conf
```

The File Should Look as follows

```
# Place your local configuration in /etc/mosquitto/conf.d/
```

```
#  
# A full description of the configuration file is at  
# /usr/share/doc/mosquitto/examples/mosquitto.conf.example
```

```
pid_file /var/run/mosquitto.pid
```

```
persistence true  
persistence_location /var/lib/mosquitto/
```

```
log_dest topic
```

```
log_type error  
log_type warning  
log_type notice  
log_type information
```

```
connection_messages true  
log_timestamp true
```

```
include_dir /etc/mosquitto/conf.d
```

Step 6: Starting the Server

```
#sudo /etc/init.d/mosquitto start
```

Step 7: Open Two Terminals using Putty

Terminal 1: Type the following:

```
#mosquitto_sub -d -t hello/world
```

Terminal 2: Type the Following:

```
mosquitto_pub -d -t hello/world -m "Hello from Terminal window 2!"
```

you can see the message on Terminal 1...

Check Mosquitto Service Status, Process and Default Port (1883) –

```
service mosquitto status  
ps -ef | grep mosquitto-je*  
netstat -tln | grep 1883
```

If you see Mosquitto service running and listening to TCP Port 1883, you have a functional MQTT Broker.

To uninstall Mosquitto you can use following command –

```
sudo apt-get purge mosquitto
```

If you want to completely remove Mosquitto with it's associated configuration files, use following command –

```
sudo apt-get --purge remove mosquitto
```

MQTT Public Brokers for global communication

URL: https://github.com/mqtt/mqtt.github.io/wiki/public_brokers

This page is an effort to list the publically-accessible MQTT brokers, often useful for testing and prototyping.

Note: none of these test brokers carry any guarantee of service. Be sensible when using them and don't break things for others! :-)

field	value
address	iot.eclipse.org
port	1883, 80 (WebSockets)
type	mosquitto

field	value
info	web page , Xively statistics , topics and HTTP bridge

field	value
address	test.mosquitto.org
port	1883, 8883 (SSL), 8884 (SSL), 80 (WebSockets)
type	mosquitto
info	web page , Xively statistics , topics and HTTP bridge

field	value
address	dev.rabbitmq.com
port	1883
type	rabbitmq
info	admin dashboard

field	value
address	broker.mqttddashboard.com
port	1883, 8000 (WebSockets)
type	HiveMQ

field	value
info	information page , statistics and dashboard

field	value
address	q.m2m.io
port	1883
type	m2m.io
info	requires signup/username and password, connecting to m2m.io

field	value
address	www.cloudmqtt.com (Note: actual host varies, see dashboard)
port	18443, 28443 (SSL)
type	mosquitto
info	requires signup/username and password, pricing (free plan available), documentation

field	value
address	mqtt.simpleml.com
port	1883 (MQTT), 8883 (MQTT+SSL), 80 (REST), 80 (WebSockets), 5683 (CoAP)
type	SimpleML

field	value
info	Free MQTT service to evaluate Machine Learning models, documentation

field	value
address	mqtt.dioty.co
port	1883 (MQTT), 8883 (MQTT+SSL), 8080 (WebSockets), 8880 (WebSockets+SSL)
type	mosca
info	Free - requires signup/username and password, documentation , includes mobile IoT app (iOS and Android)

field	value
address	mqtt.swifitch.cz
port	1883 (MQTT)
type	mosquitto
info	Free, it is mostly running for Swifitch project , but you can use it too for testing your IoT or whatever ;), it is running on Raspberry Pi.