

*******Draft*******
Mosquitto Testing Raspbain
04/11/20
*******Draft*******

MQTT^[2] (**Message Queuing Telemetry Transport**) is an open [OASIS](#) and [ISO standard](#) (ISO/IEC 20922)^[3] lightweight, [publish-subscribe](#) network protocol that transports messages between devices. The protocol usually runs over [TCP/IP](#); however, any network protocol that provides ordered, lossless, bi-directional connections can support MQTT.^[4] It is designed for connections with remote locations where a "small code footprint" is required or the network bandwidth is limited

Steps to install mosquitto mq-tt

sudo apt update

sudo apt install -y mosquitto mosquitto-clients

sudo systemctl enable mosquitto.service

mosquitto_sub

```
File Edit Tabs Help
e.
    Do not use this option in a production environment.
--psk : pre-shared-key in hexadecimal (no leading 0x) to enable TLS-PSK mode.
--psk-identity : client identity string for TLS-PSK mode.
--proxy : SOCKS5 proxy URL of the form:
          socks5h://[username[:password]@]hostname[:port]
          Only "none" and "username" authentication is supported.

See http://mosquitto.org/ for more information.

Client mosqsub|19626-mypi3-15 sending PINGREQ
Client mosqsub|19626-mypi3-15 received PINGRESP
Client mosqsub|19626-mypi3-15 received PUBLISH (d0, q0, r0, m0, 'testTopic', ...
(12 bytes))
Hello world!
Client mosqsub|19626-mypi3-15 sending PINGREQ
Client mosqsub|19626-mypi3-15 received PINGRESP
Client mosqsub|19626-mypi3-15 received PUBLISH (d0, q0, r0, m0, 'testTopic', ...
(12 bytes))
Hello world!
Client mosqsub|19626-mypi3-15 sending PINGREQ
Client mosqsub|19626-mypi3-15 received PINGRESP
```

This is done first.

devel@mypi3-15:~ \$ mosquitto_sub -d -t testTopic

The command is what creates the message on mypi3-15

```
devel@mypi3-13:~ $ mosquitto_pub -h mypi3-15 -d -t testTopic -m "Hello world!"
```

```
File Edit Tabs Help
devel@mypi3-13:~ $ mosquitto_pub -h mypi3-15 -d -t testTopic -m "Hello world!"
Client mosqpub|4379-mypi3-13 sending CONNECT
Client mosqpub|4379-mypi3-13 received CONNACK (0)
Client mosqpub|4379-mypi3-13 sending PUBLISH (d0, q0, r0, m1, 'testTopic', ... (
12 bytes))
Client mosqpub|4379-mypi3-13 sending DISCONNECT
devel@mypi3-13:~ $ █
```