

Step 1) Update mosquitto repository

run bash command: `sudo apt-add-repository ppa:mosquitto-dev/mosquitto-ppa`

(if above apt-add-repository command does not work, you might need install software-properties-common Package by running following command first:

`sudo apt-get install software-properties-common python-software-properties )`

Step 2)install mosquitto

run bash command: `sudo apt-get install mosquitto`

Step 3)start mosquitto

run bash command: `sudo service mosquitto start`

Step 4) check mosquitto running status

You should see mosquitto start/running , process xxxx

run bash command: `sudo service mosquitto status`

Step 5)Check mosquitto port:

run bash command: `netstat -anplt | grep 1883`

you should see 1883 port is listened by mosquitto process

Step 6) test MQTT broker

First, you need open a new terminal window and install mosquito client by running following commands:

`sudo apt-get install mosquitto-clients`

Second, issue the given below command to subscribe the topic “mqtt”:

```
sudo mosquitto_sub -h localhost -t "NodeMCU" -v
```

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

```
sudo mosquitto_pub -h localhost -t "NodeMCU" -m "This is my first MQTT message"
```

Then you should see a message "This is my first MQTT message" in first terminal window

Congratulations! You have set up your first Mosquitto MQTT server!

**Starting of the MQTT:**

```
root@padmapriya-Inspiron-3521
File Edit View Search Terminal Help
● mosquitto.service - LSB: mosquitto MQTT v3.1 message broker
   Loaded: loaded (/etc/init.d/mosquitto; bad; vendor preset: enabled)
   Active: active (running) since Mon 2018-04-16 16:59:34 IST; 5min ago
     Docs: man:systemd-sysv-generator(8)
  Process: 809 ExecStart=/etc/init.d/mosquitto start (code=exited, status=0/SUCCESS)
    Tasks: 1 (limit: 512)
   CGroup: /system.slice/mosquitto.service
           └─898 /usr/sbin/mosquitto -c /etc/mosquitto/mosquitto.conf

Apr 16 16:59:33 padmapriya-Inspiron-3521 systemd[1]: Starting LSB: mosquitto MQTT v3.1 mes
Apr 16 16:59:33 padmapriya-Inspiron-3521 mosquitto[809]: * Starting network daemon: mosqu
Apr 16 16:59:34 padmapriya-Inspiron-3521 mosquitto[809]: ...done.
Apr 16 16:59:34 padmapriya-Inspiron-3521 systemd[1]: Started LSB: mosquitto MQTT v3.1 mes
Apr 16 17:02:40 padmapriya-Inspiron-3521 systemd[1]: Started LSB: mosquitto MQTT v3.1 mes

~
~ Downloads
~ Recent
~ File System
~ Trash
~ Devices
~ New Vol...
~ OS
~ P:NAVEE...
~ Network
~ Network

HAA_010101_
20180320T162734_
GMT.zip

PAPER PUBLISHING
ICICS2018_PAPER_399.
zip

log.txt
main.p

major pdf(priya) (2).pdf
mosclient.png
mux code
nani certific

rkfree_setup_226_
password_123.zip

lines 1-14/14 (END)
22 items, Free space:
Menu [Firefox] [Terminal] [root@padmapri...] [root@padmapri...] [Fwd: Mos Com...] [Close Firefox]
```

**STARTING OF MQTT CLIENT :**

File Edit View Search Terminal Help

```

padmapriya@padmapriya-Inspiron-3521 ~ $ sudo su
[sudo] password for padmapriya:
Sorry, try again.
[sudo] password for padmapriya:
padmapriya-Inspiron-3521 padmapriya # sudo apt-get install mosquitto-clients
Reading package lists... Done
Building dependency tree
Reading state information... Done
mosquitto-clients is already the newest version (1.4.15-0mosquitto1~xenial1).
0 upgraded, 0 newly installed, 0 to remove and 722 not upgraded.
padmapriya-Inspiron-3521 padmapriya # sudo mosquitto_sub -h localhost -t "NodeMCU" -v

Step 2) install mosquitto
run bash command: sudo apt-get install mosquitto

Step 3) start mosquitto
run bash command: sudo service mosquitto start

Step 4) check mosquitto running status
You should see mosquitto start/running , process xxxx
run bash command: sudo service mosquitto status

Step 5) Check mosquitto port:
run bash command: netstat -anplt | grep 1883
you should see 1883 port is listened by mosquitto process

Step 6) test MQTT broker
First, you need open a new terminal window and install mosquito client by running follow
sudo apt-get install mosquitto-clients

Second, issue the given below command to subscribe the topic "mqtt":

Last, Open another terminal and issue the given below command to publish message to the t
sudo mosquitto_pub -h localhost -t "NodeMCU" -m "This is my first MQTT message"

Then you should see a message "This is my first MQTT message" in first terminal window

```



Menu



root@padmapriya-I...



root@padmapriya-I...



Fwd: Mos Command...



Clos

**PUBLISHING THE DATA IN THE CLIENT SIDE OF MQTT :**

File Edit View Search Tools Documents Help

root@padmapriya-Inspiron-3521 /home/padmapriya

File Edit View Search Terminal Help

```
padmapriya@padmapriya-Inspiron-3521 ~ $ sudo su
[sudo] password for padmapriya:
padmapriya-Inspiron-3521 padmapriya # sudo mosquitto_pub -h localhost -t "NodeMCU" -m "This is my first MQTT message"
```

```
padmapriya-Inspiron-3521 padmapriya #
```

```
(If above apt-add-repository command does not work, you might need install software-properties-common python-software-properties )
```

```
Step 2)install mosquitto
```

```
run bash command: sudo apt-get install mosquitto
```

```
Step 3)start mosquitto
```

```
run bash command: sudo service mosquitto start
```

```
Step 4) check mosquitto running status
```

```
You should see mosquitto start/running , process xxxxx
```

```
run bash command: sudo service mosquitto status
```

```
Step 5)Check mosquitto port:
```

```
run bash command: netstat -anplt | grep 1883
```

```
you should see 1883 port is listened by mosquitto process
```

```
Step 6) test MQTT broker
```

```
First, you need open a new terminal window and install mosquito client by running the following command:
sudo apt-get install mosquitto-clients
```

```
Second, issue the given below command to subscribe the topic "mqtt":
```

```
sudo mosquitto_sub -h localhost -t "NodeMCU" -v
```

```
Last, Open another terminal and issue the given below command to publish message to the topic "mqtt":
```

```
Then you should see a message "This is my first MQTT message" in first terminal window
```

Menu    root@padma... root@padma... Fwd: Mos Co... Close Firefox mos...