**# sudo pip3 install paho-mqtt**

**The code of subscribing to messages**

# python3.6

import random

from paho.mqtt import client as mqtt\_client

broker = 'broker.emqx.io'

port = 1883

topic = "python/mqtt"

# generate client ID with pub prefix randomly

client\_id = f'python-mqtt-{random.randint(0, 100)}'

# username = 'emqx'

# password = 'public'

def connect\_mqtt() -> mqtt\_client:

def on\_connect(client, userdata, flags, rc):

if rc == 0:

print("Connected to MQTT Broker!")

else:

print("Failed to connect, return code %d\n", rc)

client = mqtt\_client.Client(client\_id)

client.username\_pw\_set(username, password)

client.on\_connect = on\_connect

client.connect(broker, port)

return client

def subscribe(client: mqtt\_client):

def on\_message(client, userdata, msg):

print(f"Received `{msg.payload.decode()}` from `{msg.topic}` topic")

client.subscribe(topic)

client.on\_message = on\_message

def run():

client = connect\_mqtt()

subscribe(client)

client.loop\_forever()

if \_\_name\_\_ == '\_\_main\_\_':

run()

python3 sub.py

