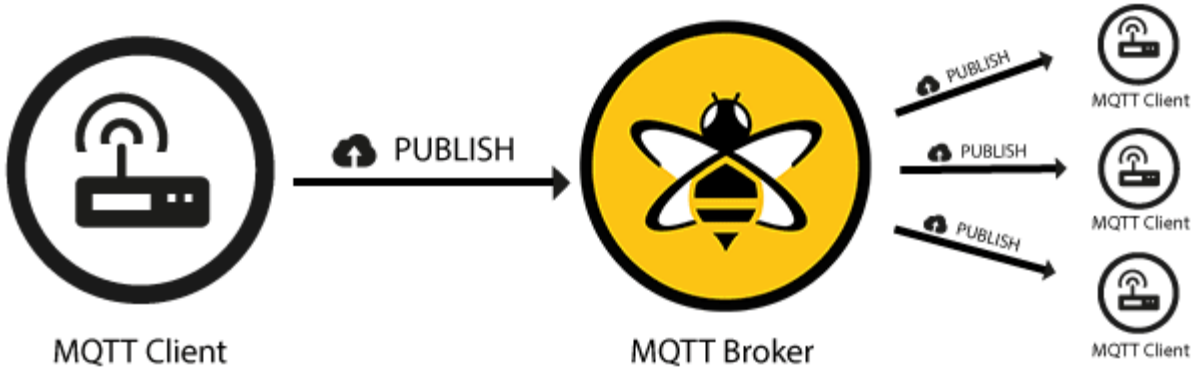
MQTT – Publish/ Subscriber model

- Publisher: Sendet Nachrichten
- Broker: Leitet Nachrichten weiter an angemeldete Subscriber
- Subscriber: Empfängt Nachrichten über den Broker



MQTT – Mosquitto (Broker)

- Mosquitto ist ein „open source message broker“, was das MQTT Protokoll implementiert.
- Installation auf dem Rasperry Pi:

```
sudo apt-get install –y mosquitto mosquitto-clients
```

- Testen des MQTT-Servers:

```
mosquitto_sub –h localhost –v –t test_channel
```

```
mosquitto_pub –h localhost –t test_channel –m „Test_Message“
```

MQTT – Subscriber

```
7   def on_connect(client, userdata, flags, rc):
8       print("Connected with result code "+str(rc))
9
10      # Subscribing in on_connect() means that if we lose the connection and
11      # reconnect then subscriptions will be renewed.
12      client.subscribe(MQTT_PATH)
13
14  # The callback for when a PUBLISH message is received from the server.
15  def on_message(client, userdata, msg):
16          temp = float((msg.payload[0] << 24 | msg.payload[1] << 16 | msg.payload[2] << 8 | msg.payload[3]) / 100.0)
17          print(msg.topic,"Temperatur:",str(temp))
18      # more callbacks, etc
```