

Controlling the robot via MQTT and Python

- [Reading joint states with an MQTT client from a Mosquitto MQTT broker !\[\]\(1207edb9a08751d3d55970560645ed23_img.jpg\)](#)

Reading joint states with an MQTT client from a Mosquitto MQTT broker

Install an MQTT Client

1. Install a mosquitto  client for example [MQTTX](#)

Connect to the WIFI


Connect to the same WI-FI the MQTT-Broker is in.

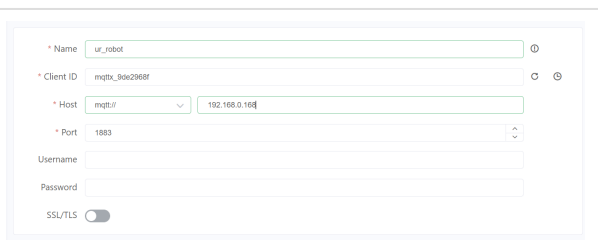
In our case the WI-FI's name is '**ROOM_240**'

In our case the device running the broker is an RaspberryPi  with the IP **192.168.0.168**

Subscribe to a topic via your MQTT client

1. Setup a new connection by clicking  :

Setup a new connection to a "broker" in our case this is the Raspberry Pi  connected to the Robot. Provide a name and leave the username and password fields blank.



The image shows a screenshot of an MQTT client configuration interface. It includes fields for Name (set to 'ur_robot'), Client ID (set to 'mqtt_9da2968f'), Host (set to 'mqtt://192.168.0.168'), Port (set to '1883'), Username, Password, and an SSL/TLS toggle switch.

Click on "connect" and you'll see the joint positions coming in and constantly updated!

robot

robot@192.168.0.168...

+ New Subscription

ur_robot/joint_po... QoS 0

robot

Client ID

Username

robot

mqtx_788608e2

Password

Keep Alive

Clean Start

60

☒ true

Connect

Plaintext

AllReceivedPublished

Topic ur_robot/joint_positions QoS 0

[{"joint1": 0.8898223638534546,
"joint2": -2.2567044697203578,
"joint3": 0.9117935339557093,
"joint4": -1.4389540717414399,
"joint5": 1.0402843952178955,
"joint6": 10.51977480251531}

2023-10-20 18:25:34.961

JSONQoS 0RetainMeta

Topic

{
"msg": "hello"
}