Industrial IoT Minor

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Experiment - 8

AIM: Write a program on ESP32/Raspberry Pi to publish DHT11 data through MQTT protocol.

OBJECTIVE: to publish DHT11 data through MQTT protocol in MQTTBox.

THEORY: MQTT is a lightweight, publish-subscribe, machine to machine network protocol for Message queue/Message queuing service. It is designed for connections with remote locations that have devices with resource constraints or limited network bandwidth.

METHODOLOGY:

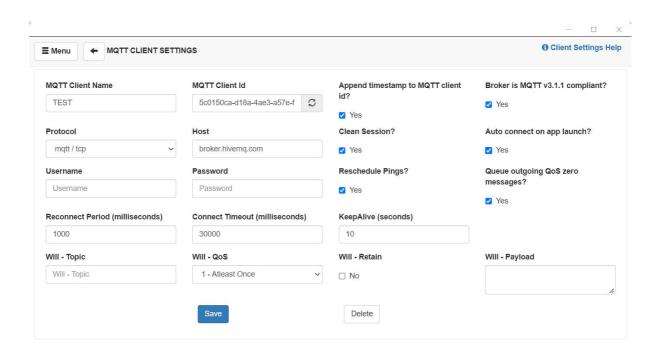
Software Required:

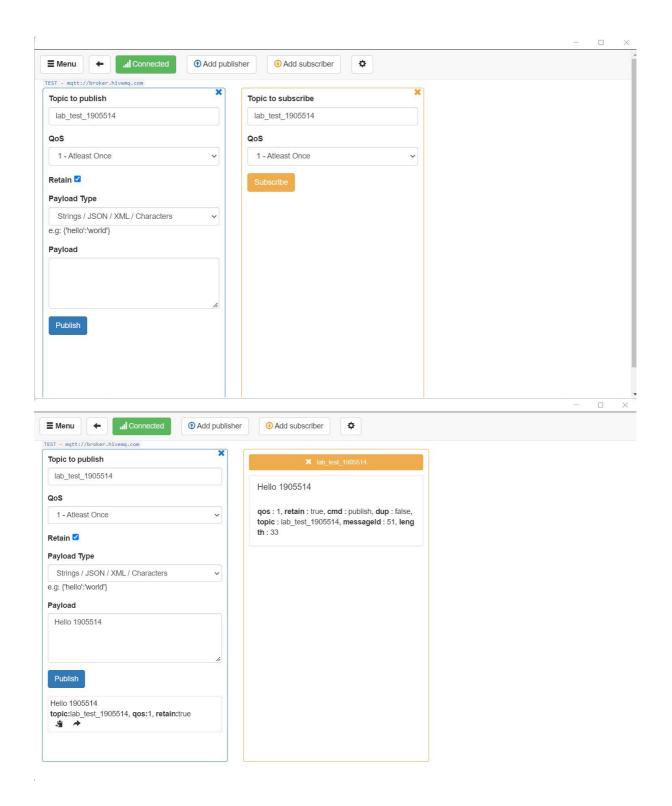
Download MQTT Box from Google chrome either mobile or PC

- > Open MQTT box
- > Create MQTT client
- > Once create client give a MQTT client name.
- Select Protocol of MOTT/TCP
- > Username & Password make it blank.
- > Don't touch the MOTT client ID
- Host Broker (broker.hivemq.com)
- ➤ Save

RESULT:







CONCLUSION: After doing this experiment I was able to perform the the working of PUB-SUB model of MQTT with the help of MQTTBox.