MQTT notes

- PubSub protocol
- https://www.youtube.com/watch?v=J5FJn-y4buM

Designed for constrained devices and low-bandwidth, high-latency, unreliable networks.

Simple   Light Weight   Publish-Subscribe   Reliable Delivery

Key Concepts

01 Publish-Subscribe

02 Client & Server

03 Topic

04 QoS

05 Session

QoS 0

Sensor Reading
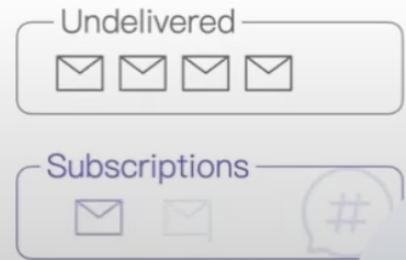
QoS 1

0→1 Status Update

QoS 2

Control Command

Session

Session in Client

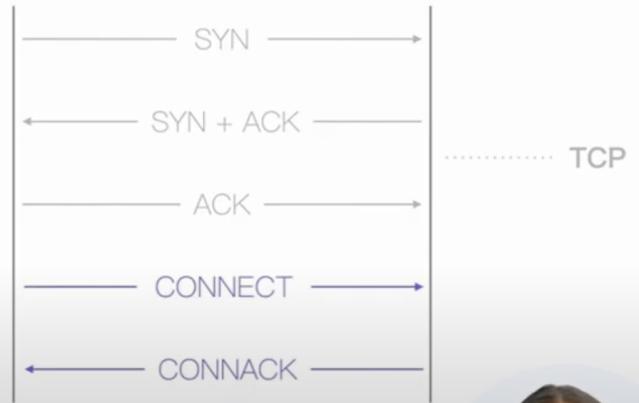QoS 1   QoS 2

Session in Server

Undelivered

Undelivered

Subscriptions

Client   Server

STEP 1

Transport Protocol

STEP 2

MQTT

SYN

SYN + ACK

TCP

ACK

CONNECT

CONNACK

MQTT Clients   MQTT Server   MQTT Clients

Publish   Subscribe

Let the topic convey the information

home / bedroom / d2ef08 / light   home / study / 9a311e / light   home / livingroom / ce20fe / light

command / … / light   status / … / light   telemetry / … / temperature

- Mqtt template to write to Influxdb

```
{
    "devices/+/messages": {
        "measurement": "devices",
        "tags": {
            "client_id": "$client_id"
        },
        "fields": {
            "temperature": ["$payload", "temperature"],
            "humidity": ["$payload", "humidity"]
        },
        "timestamp": "$timestamp"
    }
}
```

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