

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

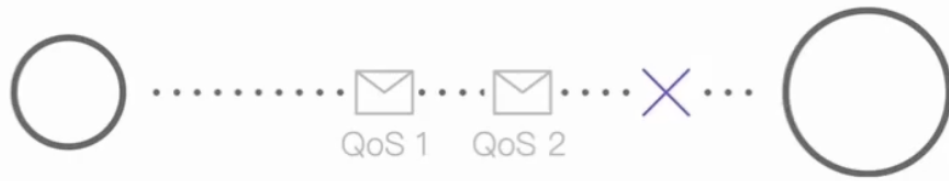
QoS 1

 Status Update

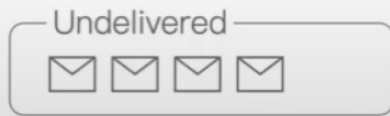
QoS 2

 Control Command

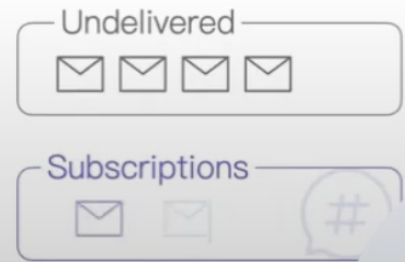
Session



Session in Client



Session in Server



Client

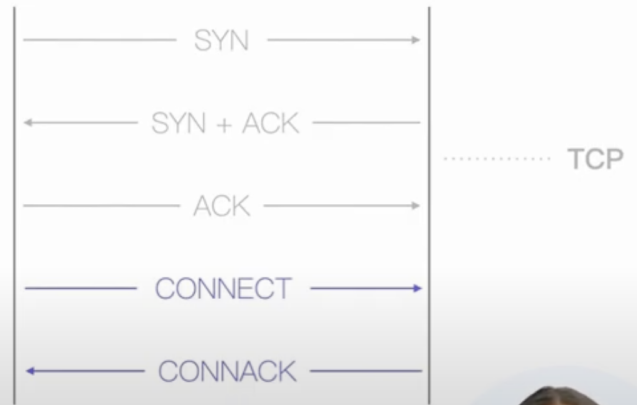
Server

STEP 1

Transport Protocol

STEP 2

MQTT



MQTT Clients

MQTT Server

MQTT Clients



Let the topic convey the information

home / [bedroom](#) / [d2ef08](#) / light

home / [study](#) / [9a311e](#) / light

home / [livingroom](#) / [ce20fe](#) / light

command / ... / light status / ... / light telemetry / ... / temperature

- EMQX ports

Type	Bind
ssl	0.0.0.0:8883
tcp	0.0.0.0:1883
ws	0.0.0.0:8083
wss	0.0.0.0:8084

- 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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