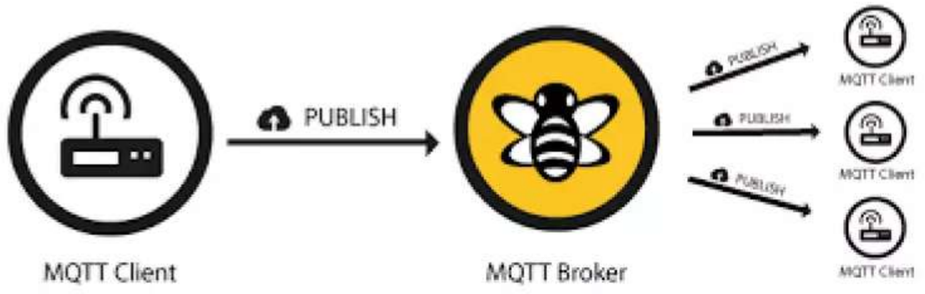
MQTT

Introduction to MQTT Protocol

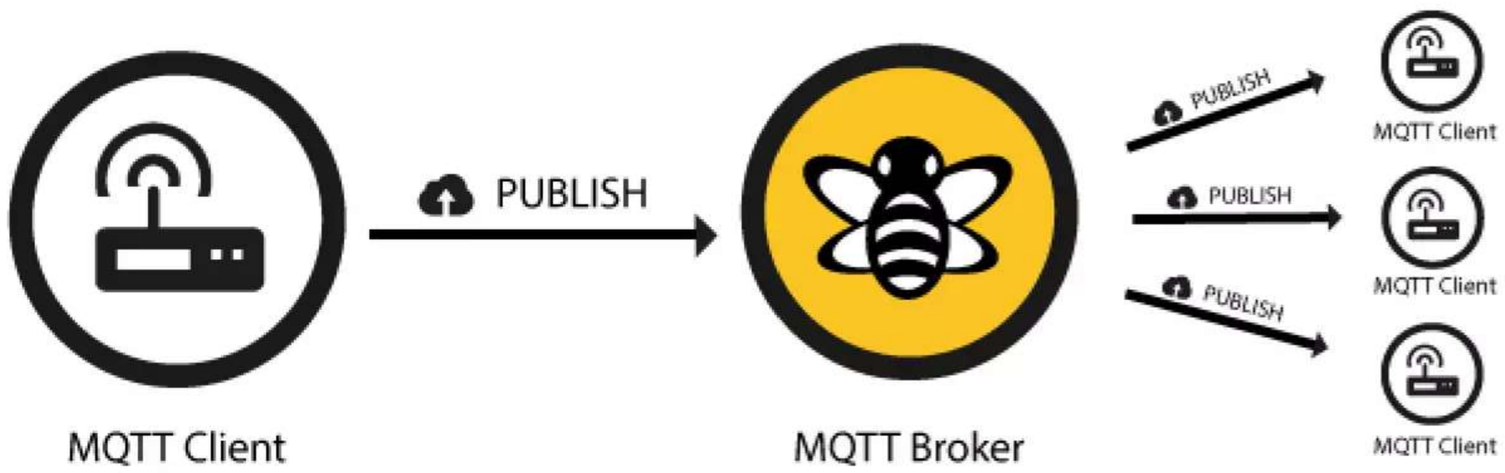


MQTT

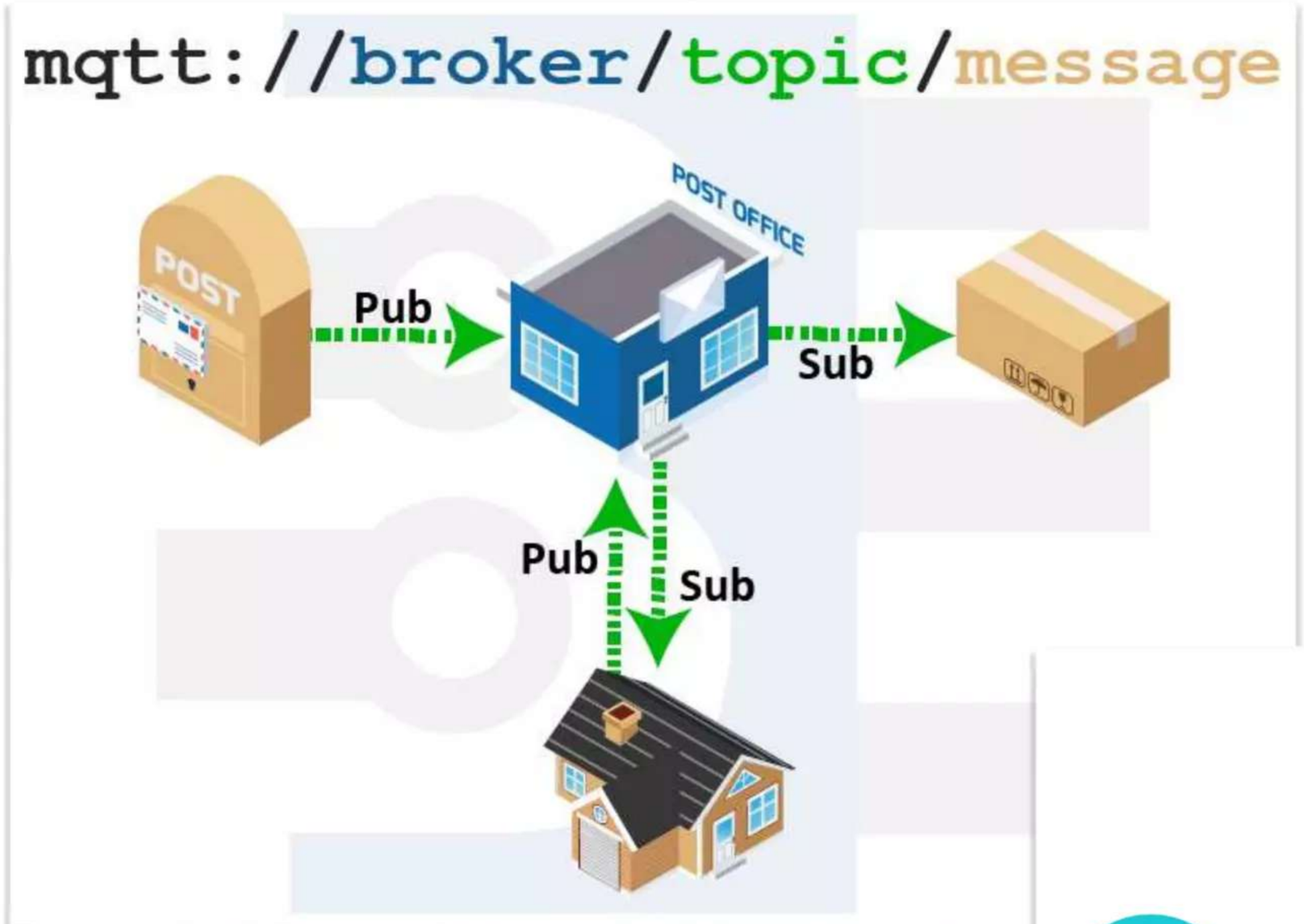
- **MQTT** is a machine-to-machine (M2M)/"**Internet of Things**" connectivity protocol.

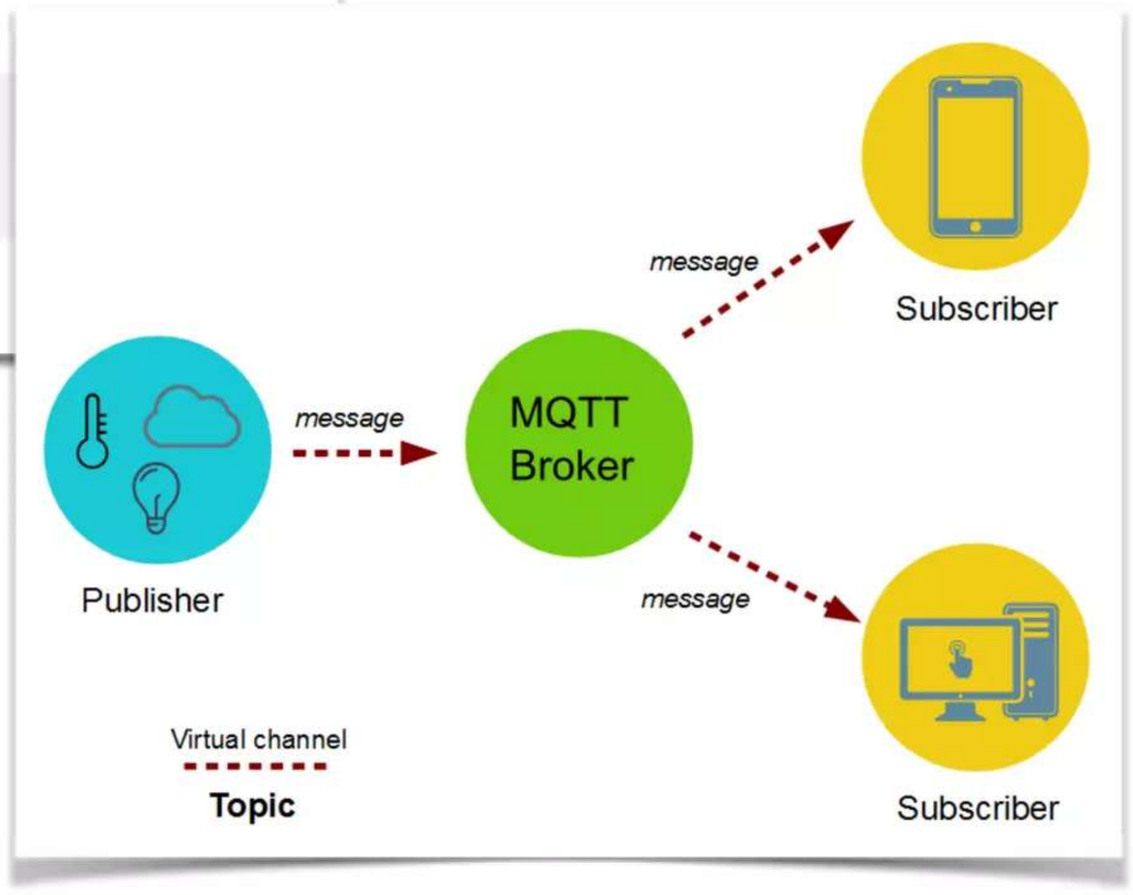
- It was designed as an extremely lightweight publish/subscribe messaging transport.

- It is useful for connections with remote locations where a small code footprint is required and/or netw



Analogy for MQTT





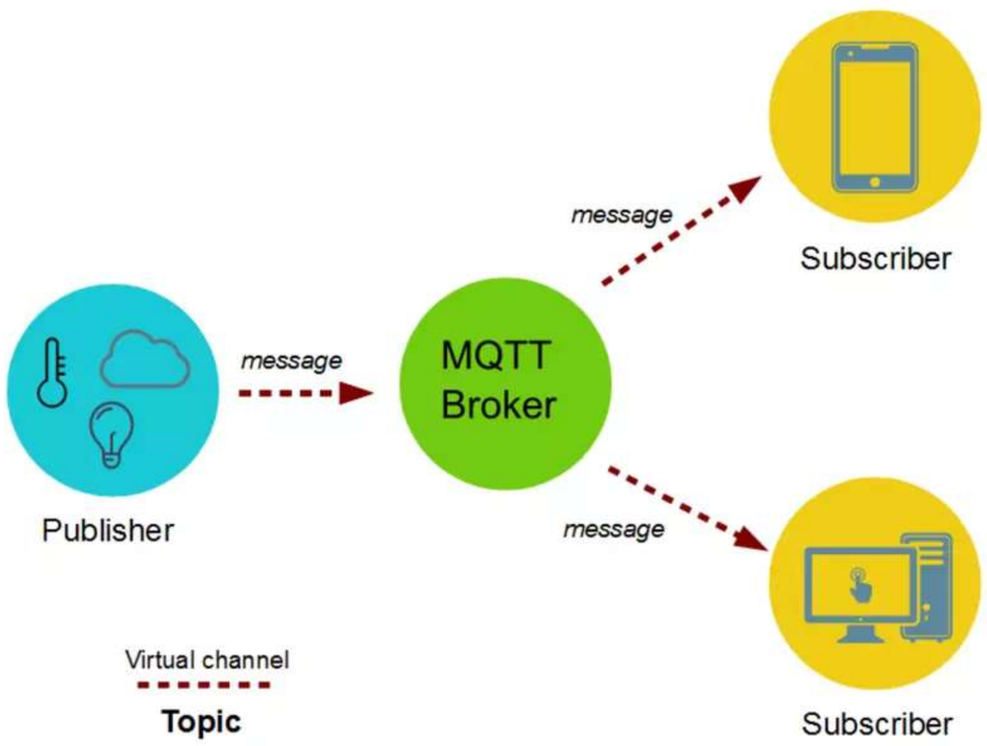
MQTT-Publisher,Broker,Subscriber and Topic

Broker-Is a server which receives and send messages to subscribers,Intermediate between Publisher and subscriber

Publisher-Is a Client which publishes message to Mqtt Broker with a particular topic

Subscriber-Is the Client which receives message from the broker on subscription of reticular topic

Topic-Is the virtual channel in which Publisher and Subscriber send and receive message



MQTT-Publish,Subscribe

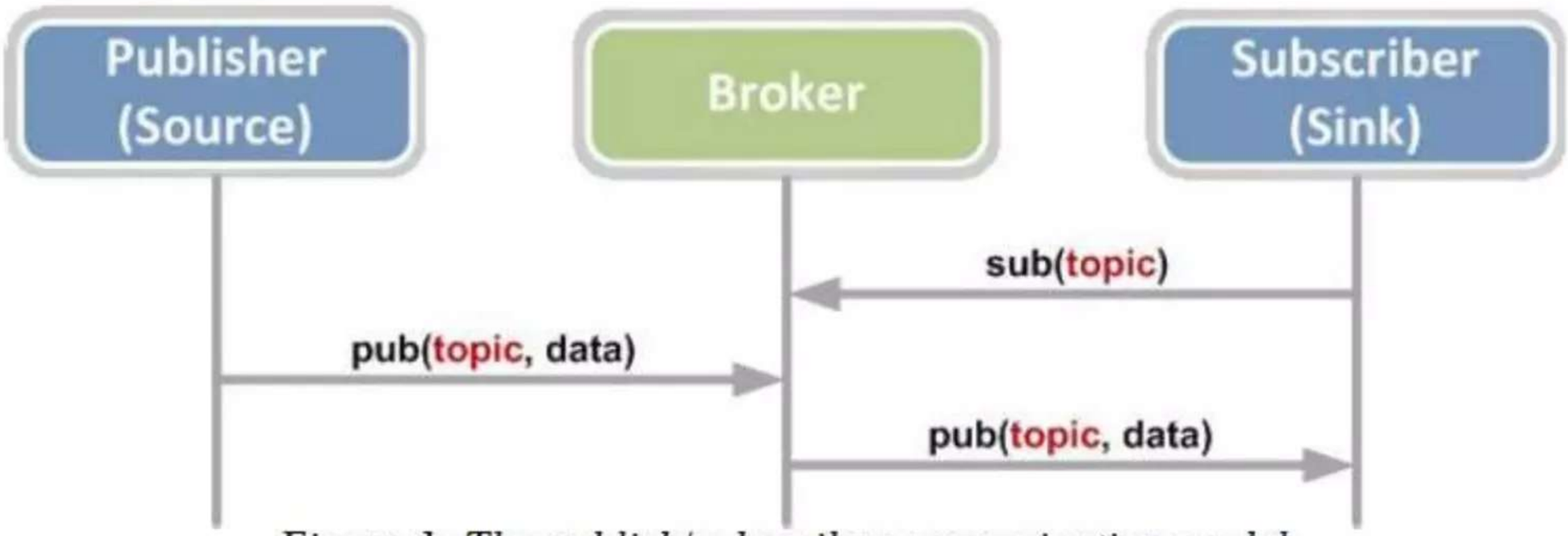
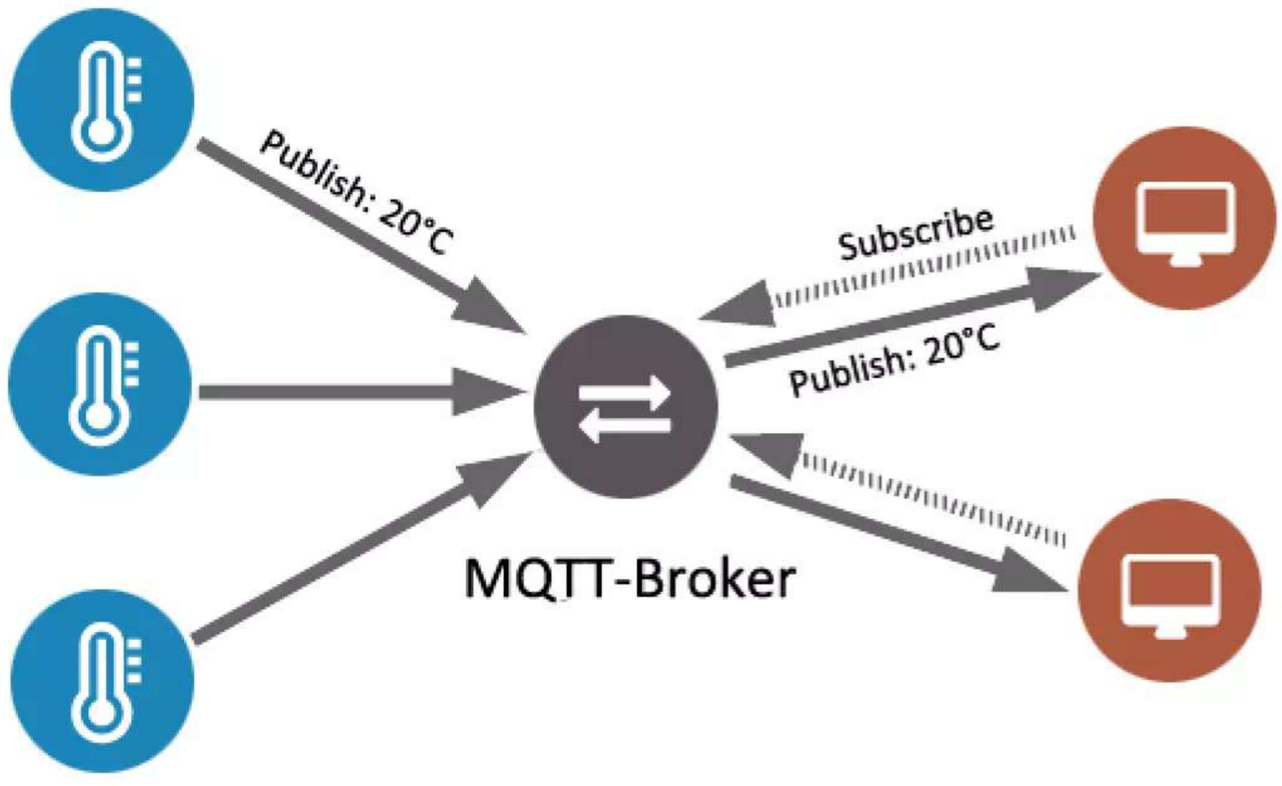
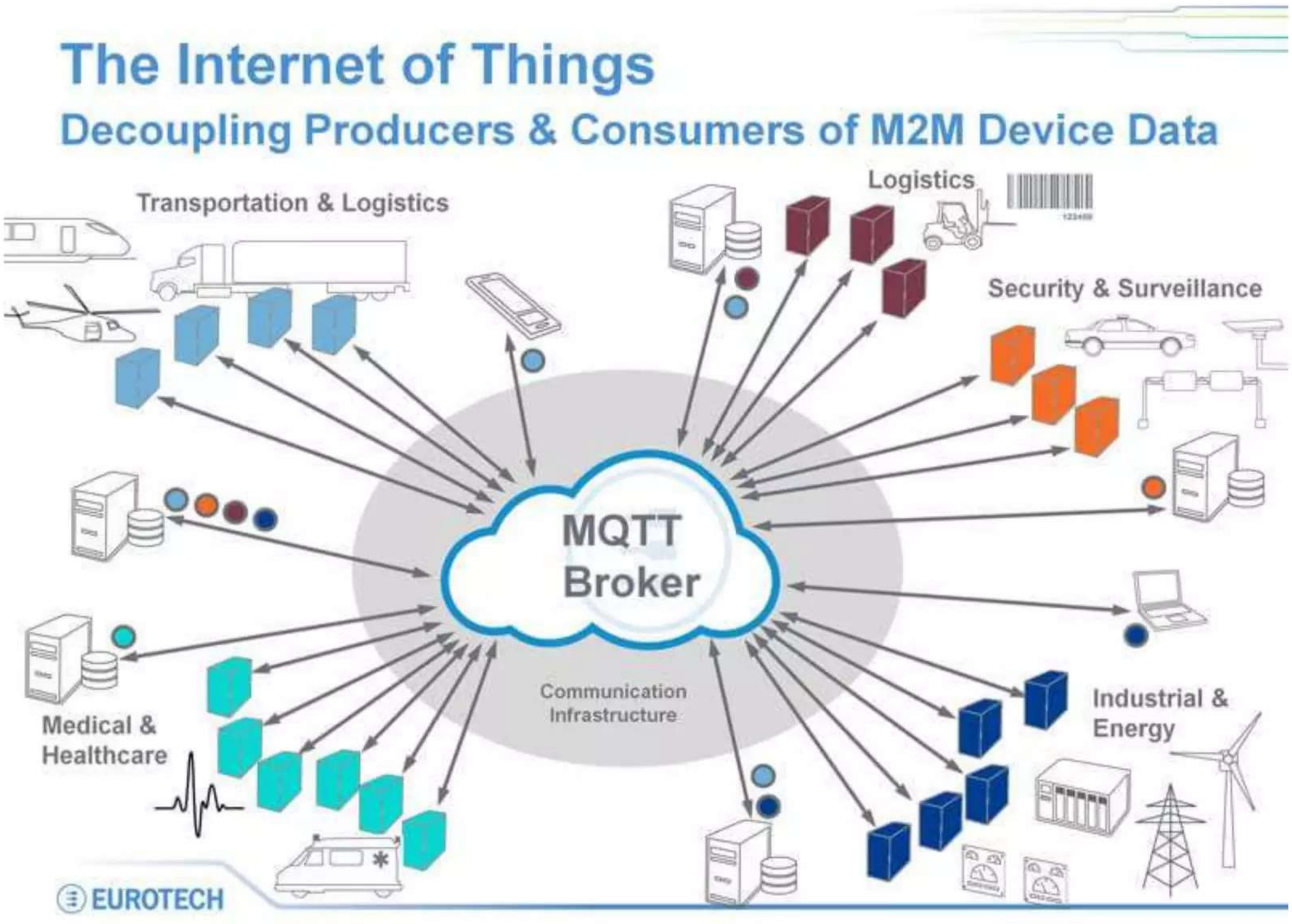


Figure 1: The publish/subscribe communication model

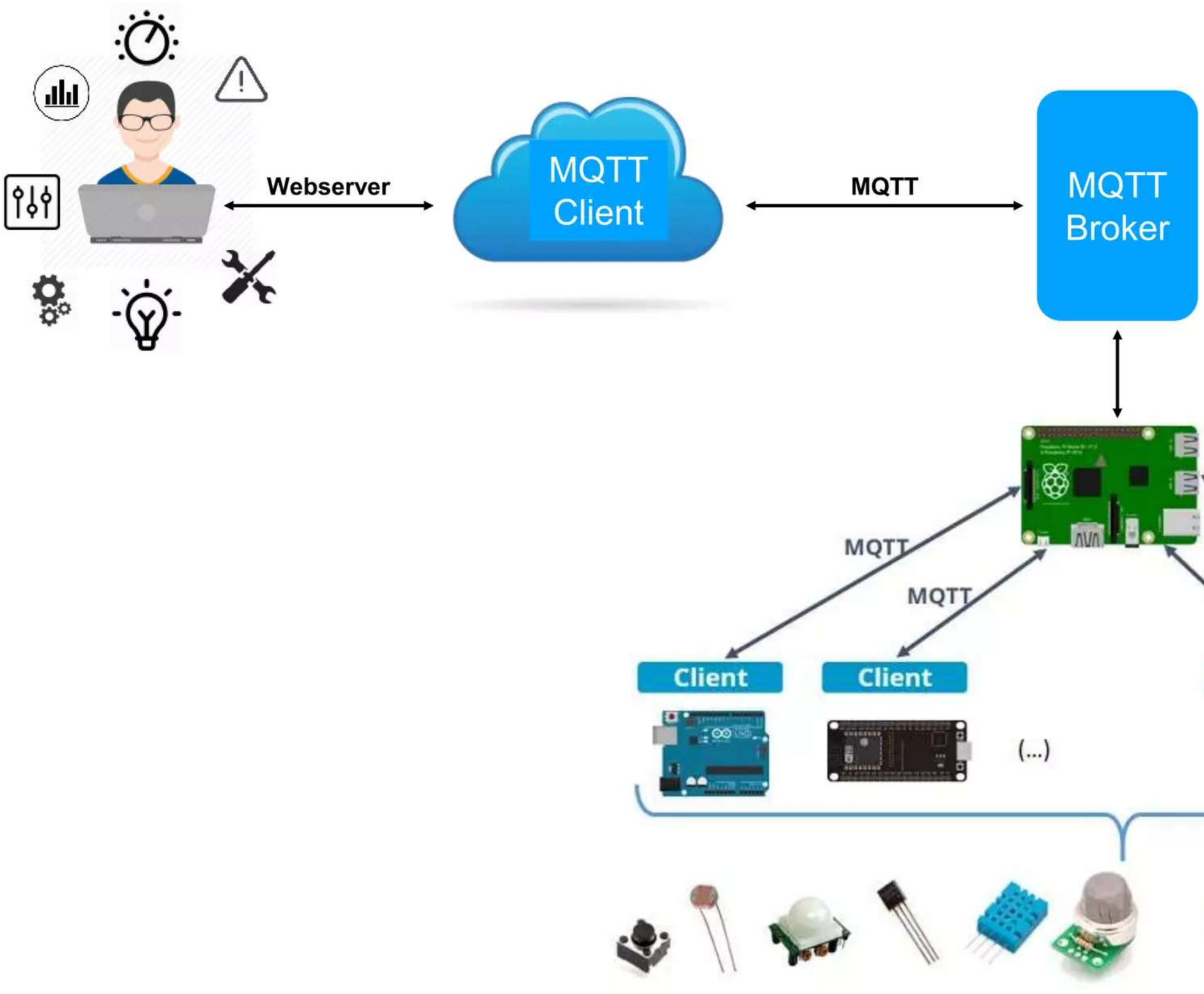
Temperature Monitoring Example



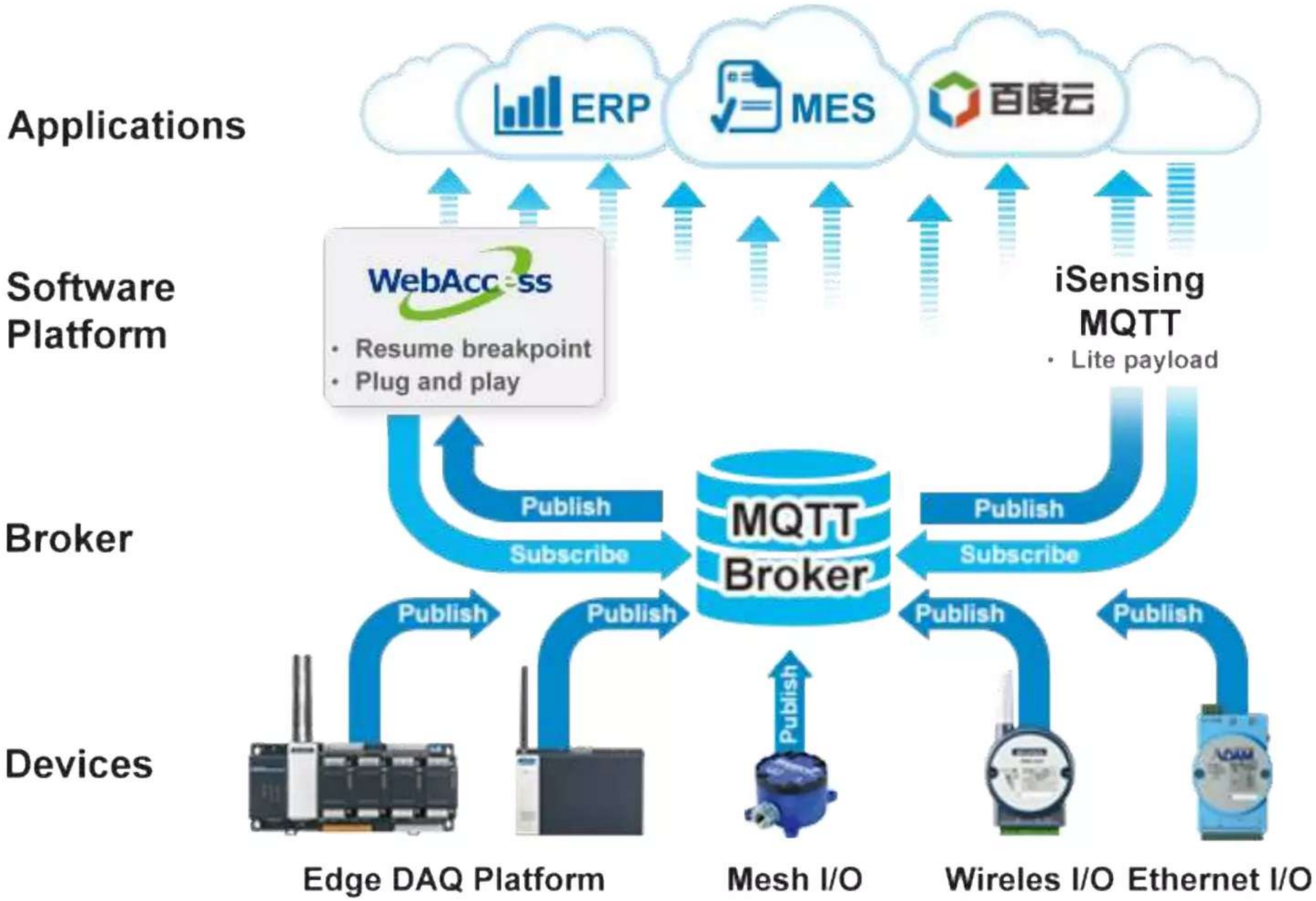
IOT


The Internet of Things
Decoupling Producers & Consumers of M2M Device Data
Transportation & Logistics
Logistics
Security & Surveillance
MQTT
Broker
Communication
Infrastructure
Medical &
Healthcare
Industrial &
Energy
EUROTECH

MQTT-IOT-Example



MQTT-APPLICATIONS



MQTT Browser Client

http://www.hivemq.com/demos/websocket-client/

Public MQTT Broker

Our **Public HiveMQ MQTT broker** is open for anyone to use. Feel free to write an MQTT client that connects with this broker. We have a **dashboard** so you can see the amount of traffic on this broker. We also keep a list of **MQTT client libraries** that can be used to connect to HiveMQ.

You can access the broker at:

Broker: `broker.hivemq.com`

TCP Port: `1883`

Websocket Port: `8000`

Other MQTT Public Brokers

https://test.mosquitto.org/