FIWARE POC- Iot Over MQTT

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Step 0:

Start Up:
git clone https://github.com/FIWARE/tutorials.IoT-over-MQTT.git
cd tutorials.IoT-over-MQTT
Docker-compose -p fiware up -d

curl -X GET 'http://localhost:4041/iot/about' --IoT Agent
curl -X GET 'http://localhost:1026/version' --IoT Context Broker

1) Register a service

```
curl -iX POST \
 'http://localhost:4041/iot/services' \
 -H 'Content-Type: application/json' \
 -H 'fiware-service: openiot' \
 -H 'fiware-servicepath: /' \
 -d '{
"services": [
 {
  "apikey":     "4jggokgpepnvsb2uv4s40d59ov",
  "cbroker":    "http://localhost:1026",
  "entity_type": "MyDevice",
  "resource":   ""
 }
]
}'
```

2) Provision a IoT Device

```
curl -iX POST \
 'http://localhost:4041/iot/devices' \
 -H 'Content-Type: application/json' \
 -H 'fiware-service: openiot' \
 -H 'fiware-servicepath: /' \
 -d '{
"devices": [
 {
  "device_id":   "TempHumd001",
  "entity_name": "urn:ngsi-ld:TempHumd:001",
  "entity_type": "MyDevice",
  "protocol":"PDI-IoTA-UltraLight",
  "transport":"MQTT",
  "timezone":    "Asia/India",
  "attributes": [
   { "object_id": "t", "name": "temperature:room", "type": "Integer" }
  ] }
]
}
'
```

3) Publishing a message to a topic

```
docker run -it --rm --name mqtt-publisher --network fiware_default efrecon/mqtt-client pub -h mosquitto -m "t|30" -t
"/4jggokgpepnvsb2uv4s40d59ov/TempHumd001/attrs"
```

4) To see the publish data in context broker

```
curl -G -X GET 'http://localhost:1026/v2/entities/
urn:ngsi-ld:TempHumd:001' -d 'type=MyDevice' -H 'fiware-service:openiot' -H '
fiware-servicepath: /'
```

5) To see the registered services.

```
curl -X GET \
 'http://localhost:4041/iot/services' \
 -H 'fiware-service: openiot' \
 -H 'fiware-servicepath: /'
```