



Cloud Services



Cloud Services

- DigitalOcean
- Heroku
- IBM BlueMix
- CloudMQTT
- ThingSpeak
- NETPIE.io
- ESPert.io

Cloud Services



DigitalOcean

Cloud Services



Cloud Services



IBM Bluemix

Cloud Services

CloudMQTT Plans

[Home](#) [Plans](#) [Documentation](#) [Support](#) [Control Panel](#)



Cute Cat

- 10 connections
- 10 Kbit/s

[Try now for Free](#)



Keen Koala

- 100 connections
- 100 Kbit/s
- Support by e-mail
- Support by chat

[Try now for \\$19/month](#)



Loud Leopard

- 1 000 connections
- 1 Mbit/s
- Support by e-mail
- Support by chat

[Try now for \\$99/month](#)



Power Pug

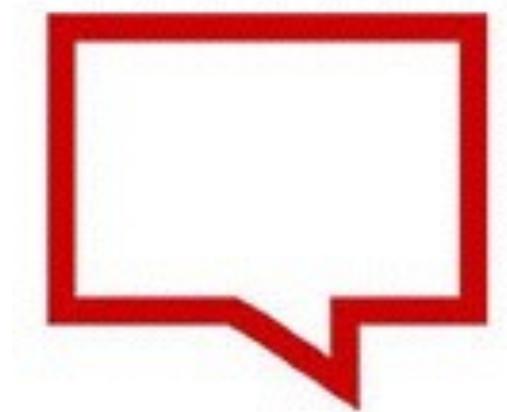
- 10 000 connections
- 10 Mbit/s
- Support by e-mail
- Support by chat
- 24/7 phone support

[Try now for \\$299/month](#)

Cloud Services

- ThingSpeak
- NETPIE.io
- ESPert.io

Ability	ThingSpeak	<u>NETPIE.io</u>	<u>ESPert.io</u>
สามารถสร้าง Graph	✓	✗	✗
Push Notification	✗	✗	✓
ส่งค่าแบบ Real Time	✗	✓	✓
MQTT	✗	✓	✓



ThingSpeak.com

My Channels

[New Channel](#)

Name	Created
 Private	2015-10-08
 Public	Settings API Key Data Import / Export
 Myroom330	2015-10-10
 Private	Public Settings API Key Data Import / Export
 Espresso_CMMC	2015-11-19
 Private	Public Settings API Key Data Import / Export

Help

Collect data in a ThingSpeak channel from a device, from another channel, or from the web. Click [New Channel](#) to create a new ThingSpeak channel.

Learn to [create channels](#), explore and transform data.

Learn more about [ThingSpeak Channels](#).

Examples

- [Arduino Tutorial](#)
- [Netduino Plus Tutorial](#)

New Channel

Name

Description

Help



ThingSpeak Channel

Channels store all the data that a ThingSpeak application collects. Each channel includes eight fields that can hold any type of data, plus three fields for location data and one field for status data. Once you collect data in a channel, you can use ThingSpeak apps to an

Test

Channel ID:

59536



Author:

bavensky

Access:

Public

Test new upload something

Private View

Public View

Channel Settings

API Keys

Data Import / Export

+ Add Visualizations

Data Export

MATLAB Analysis

MATLAB Visualization

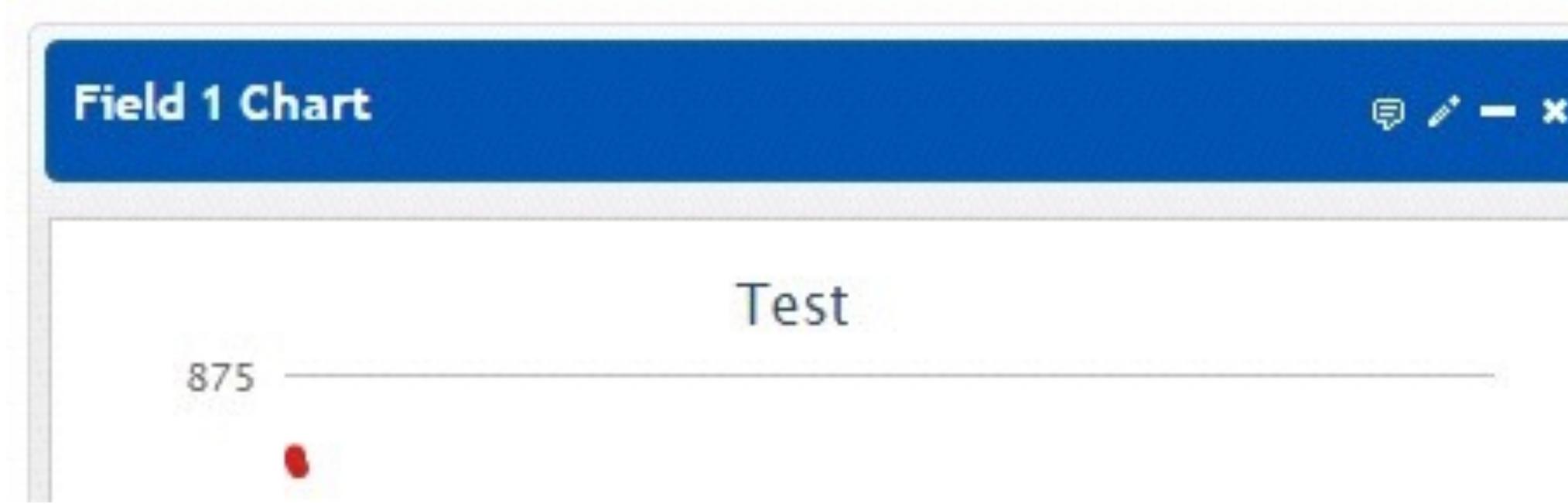
More ▾

Channel Stats

Created 4 months ago

Updated 13 days ago

2047 Entries



Test

Channel ID:

59536

Author:

bavensky

Access:

Public

Test new upload something

Private View

Public View

Channel Settings

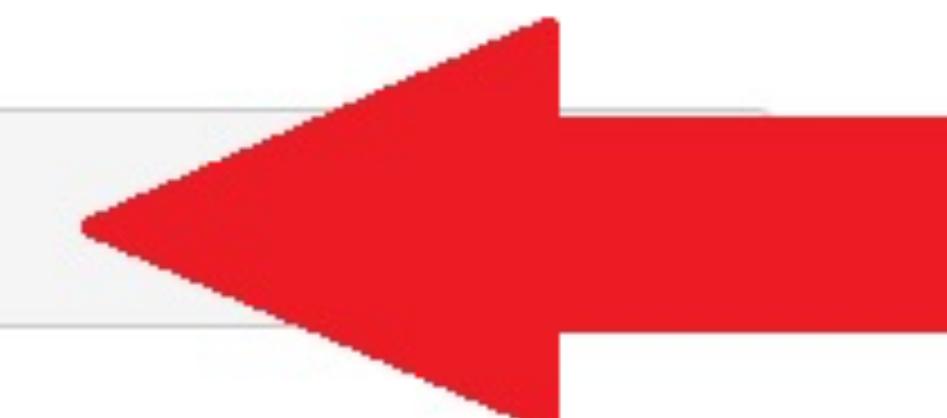
API Keys

Data Import / Export

Write API Key

Key

5T4WXGZFE1P|

[Generate New Write API Key](#)

Help

API keys enable you to write data to a channel or read data from a private channel. Keys are auto-generated when you create a new channel.

API Keys Settings

- **Write API Key:** Use this key to write data to a channel. If you feel your key has been compromised, click [Generate New Write API Key](#).
- **Read API Keys:** Use this key to allow other people to view your private channel's feeds and charts. Click [Generate New Read API Key](#) to generate an additional read key for the channel.
- **Note:** Use this field to enter information about channel read keys. For example, add notes to keep track of users with access to your channel.

Read API Keys

Key

5T4WXGZFE1P|

[Create a Channel](#)

[Private View](#)[Public View](#)[Channel Settings](#)[API Keys](#)[Data Import / Export](#)

Import

Upload a CSV file to import data into this channel

 no file selected

Time Zone

Export

Download all of this Channel's feeds in CSV format.

Help

Select a CSV file on your hard drive and import all of its data

Update Channel Feed - GET

```
GET https://api.thingspeak.com/update?api_key=DNK0IV7ETG0878JD&field1=0
```

Update Channel Feed - POST

```
POST https://api.thingspeak.com/update.json  
api_key=DNK0IV7ETG0878JD  
field1=73
```

Get a Channel Feed

```
GET https://api.thingspeak.com/channels/127482/feed.json?results=2
```

Get a Channel Field Feed

```
GET https://api.thingspeak.com/channels/127482/fields/1.json?results=2
```

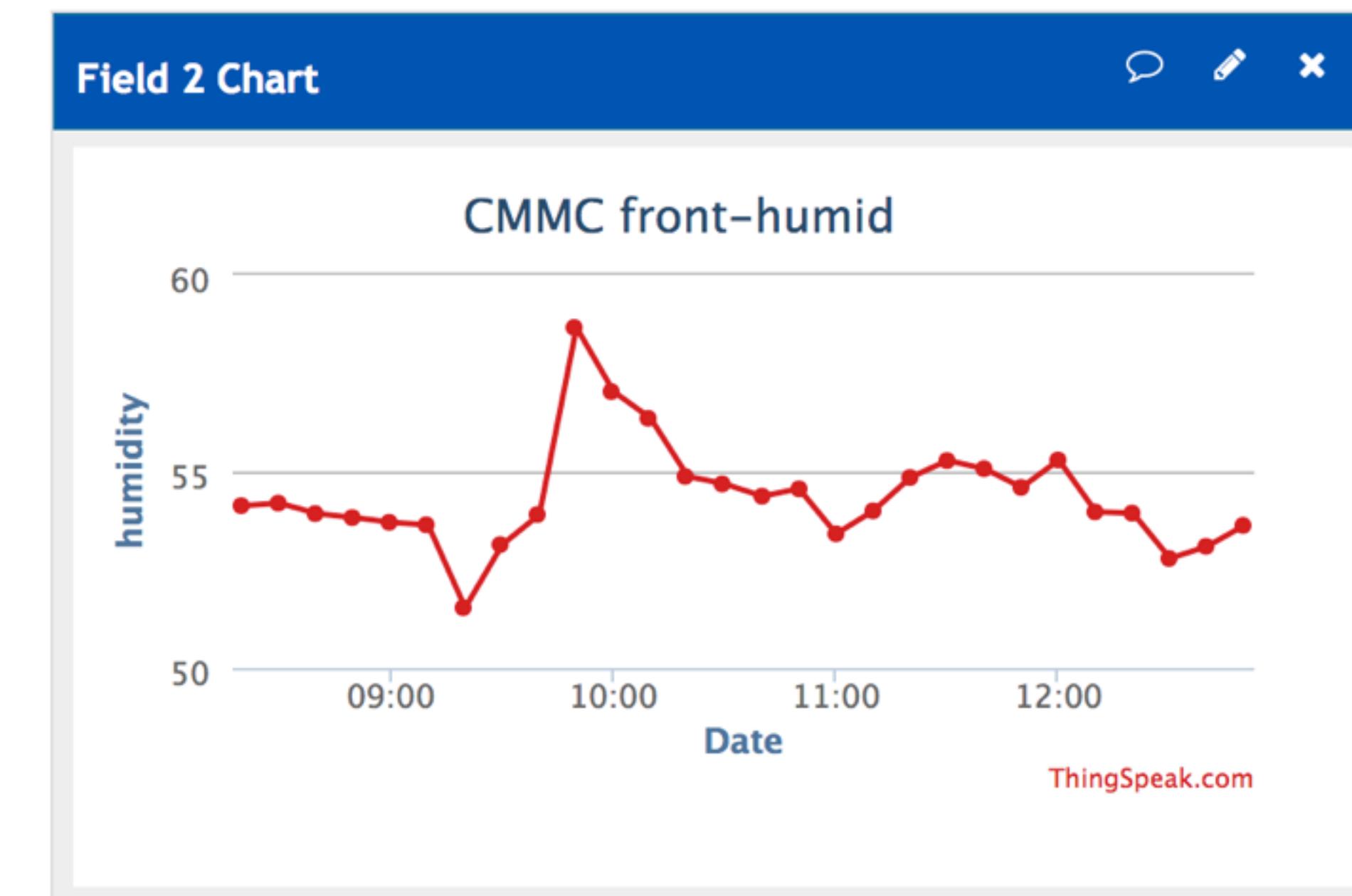
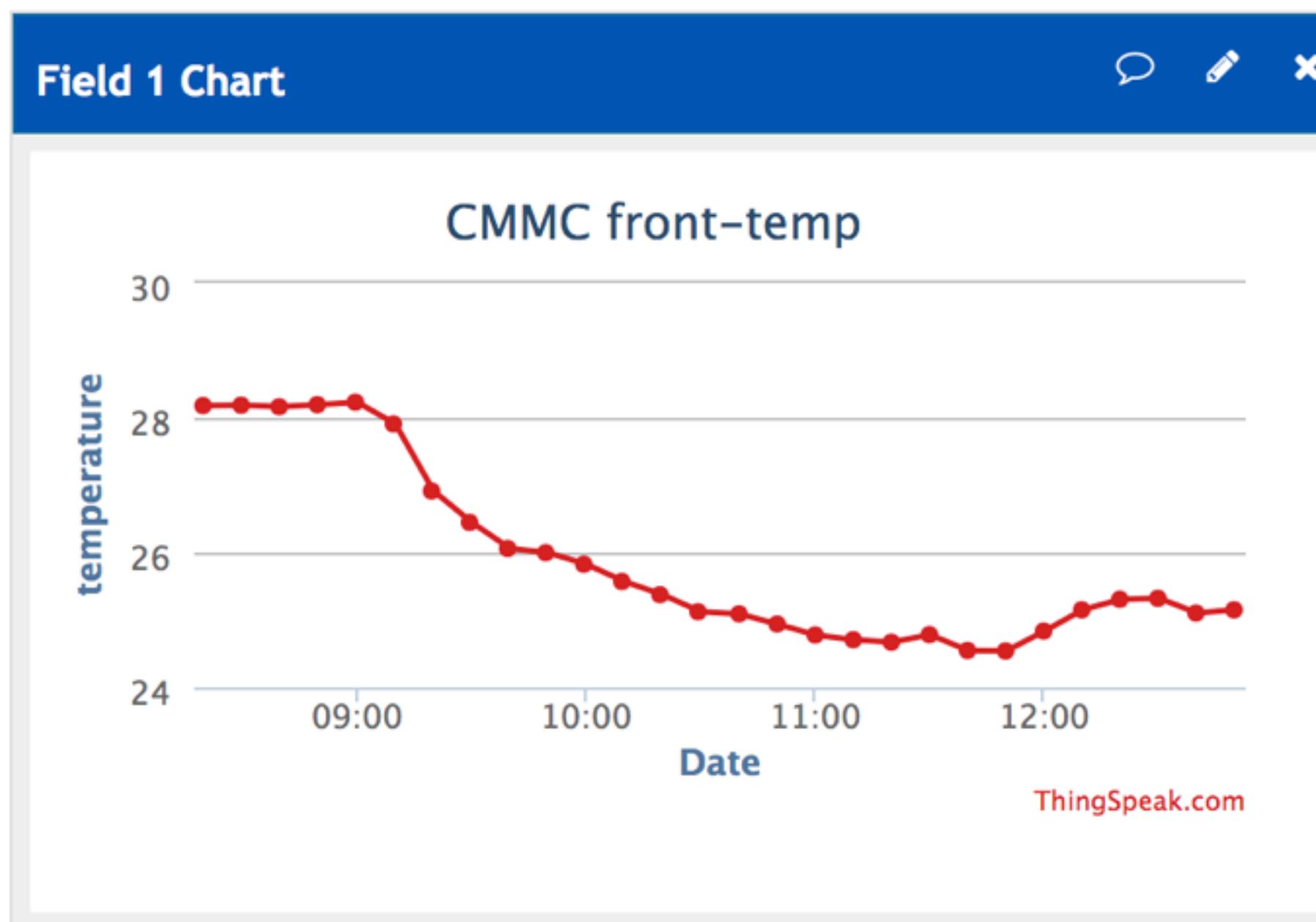
Get Status Updates

```
GET https://api.thingspeak.com/channels/127482/status.json
```

[+ Add Visualizations](#)[Data Export](#)[MATLAB Analysis](#)[MATLAB Visualization](#)

Channel Stats

Created 2 months ago
Updated less than a minute ago
Last Entry less than a minute ago
9079 Entries





NETPIE
where things chat

NETPIE (Network Platform for Internet of Everything) เป็นแพลตฟอร์มบริการสำหรับการพัฒนา IoT Solution ซึ่งสามารถทำให้คุณสามารถเชื่อมต่อสิ่งต่างๆ ได้อย่างง่ายดาย และไร้ความกังวลในเรื่องต่างๆ ดังนั้นคุณสามารถทุ่มเทเวลาที่เหลือเพื่อสร้างสรรค์ผลิตภัณฑ์ IoT ได้อย่างเต็มที่

-ทีมงาน NETPIE

ความจุกจิก หรือความกังวล

- การบริหารจัดการการเชื่อมต่อ
- การยืนยันตัวตนผู้ใช้และสิ่งของ
- การจำกัดการเข้าถึงบริการ
- เรื่องเกี่ยวกับ system admin ทั่วไป



REST API

REST API is lightweight and universal. It allows legacy systems to have real-time interaction over HTTP protocol.



PUBLISH-SUBSCRIBE PATTERN

We create our own publish-subscribe communication model to allow instant messaging among things.



COORDINATION

Coordination service lets things discover one another and detect presence and absence of one another.



STORAGE

We provide a simple storage service through the POSTBOX space. Store any data you wish in the POSTBOX and retrieve it later.





Panita Pongpalboon จากหน้า FAQ

NETPIE ใช้พอร์ตคอล MQTT ใน การสื่อสารกับอุปกรณ์ และ MQTT เรียกใช้งาน TCP port 1883 ถ้าเป็นการเรียกใช้ Microgear สำหรับ HTML5 จะใช้ MQTT over websocket ซึ่งใช้ TCP port 8083 นอกจากนี้ NETPIE ยังใช้พอร์ตคอล OAuth ผ่าน TCP port 8080 ในขั้นตอน Authorization ดังนั้น กรุณาตรวจสอบว่าเครือข่ายของท่าน ไม่ได้บล็อกพอร์ต 1883 8083 และ 8080

MQTT

temperature
sensor

MQTT-Broker

subscribe to
topic: "temperature"

2 publish to
topic: "temperature"

mobile device

MQTT

- Lightweight message queueing and transport protocol
- Sensor and Actuator nodes communicate with application through the MQTT message broker

MQTT

MQTT

designed for minimal [network traffic](#)
and [constrained devices](#)

[small header size](#)

PUBLISH 2-4 bytes
CONNECT 14 bytes

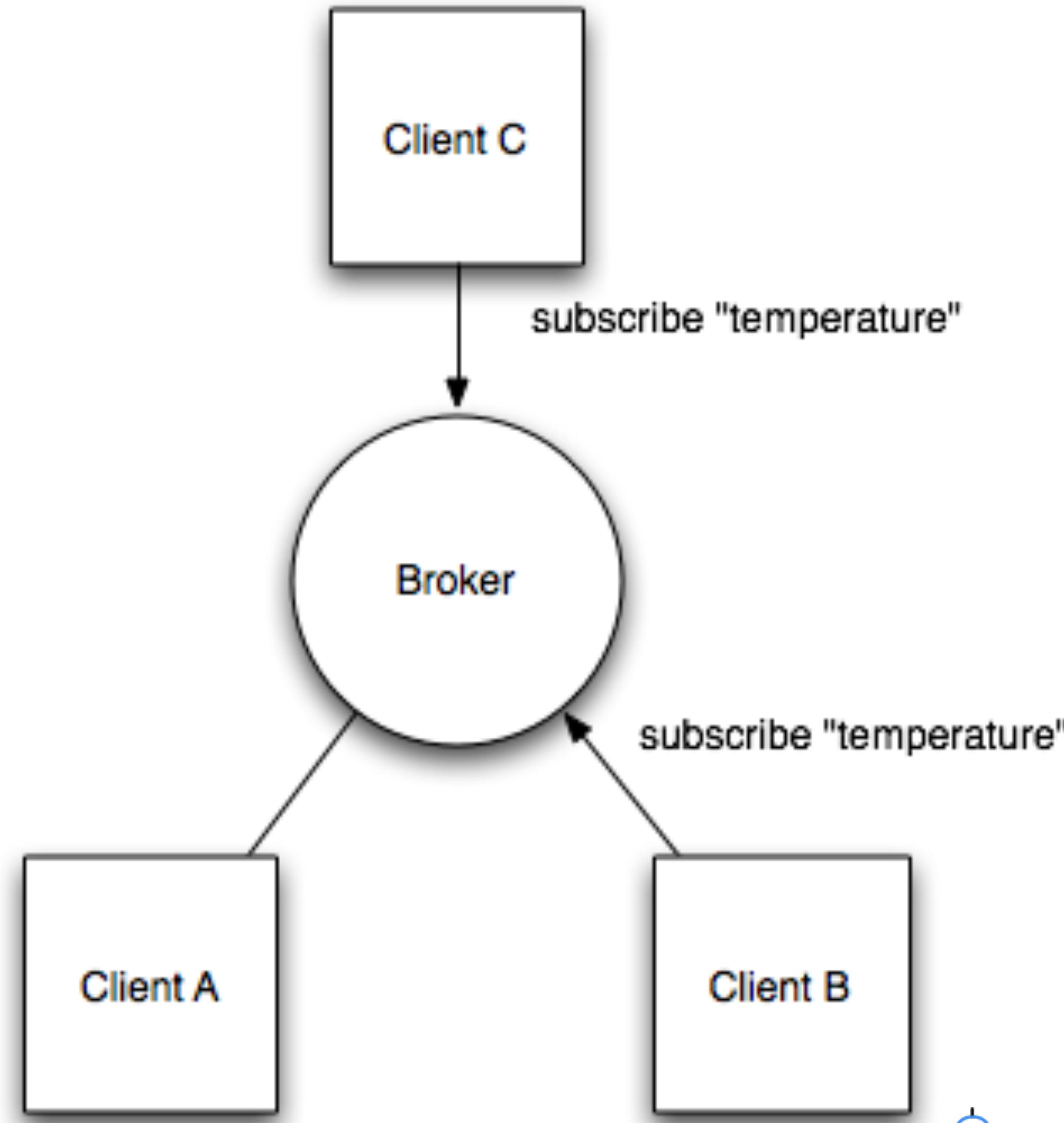
HTTP 0.1-1 KB

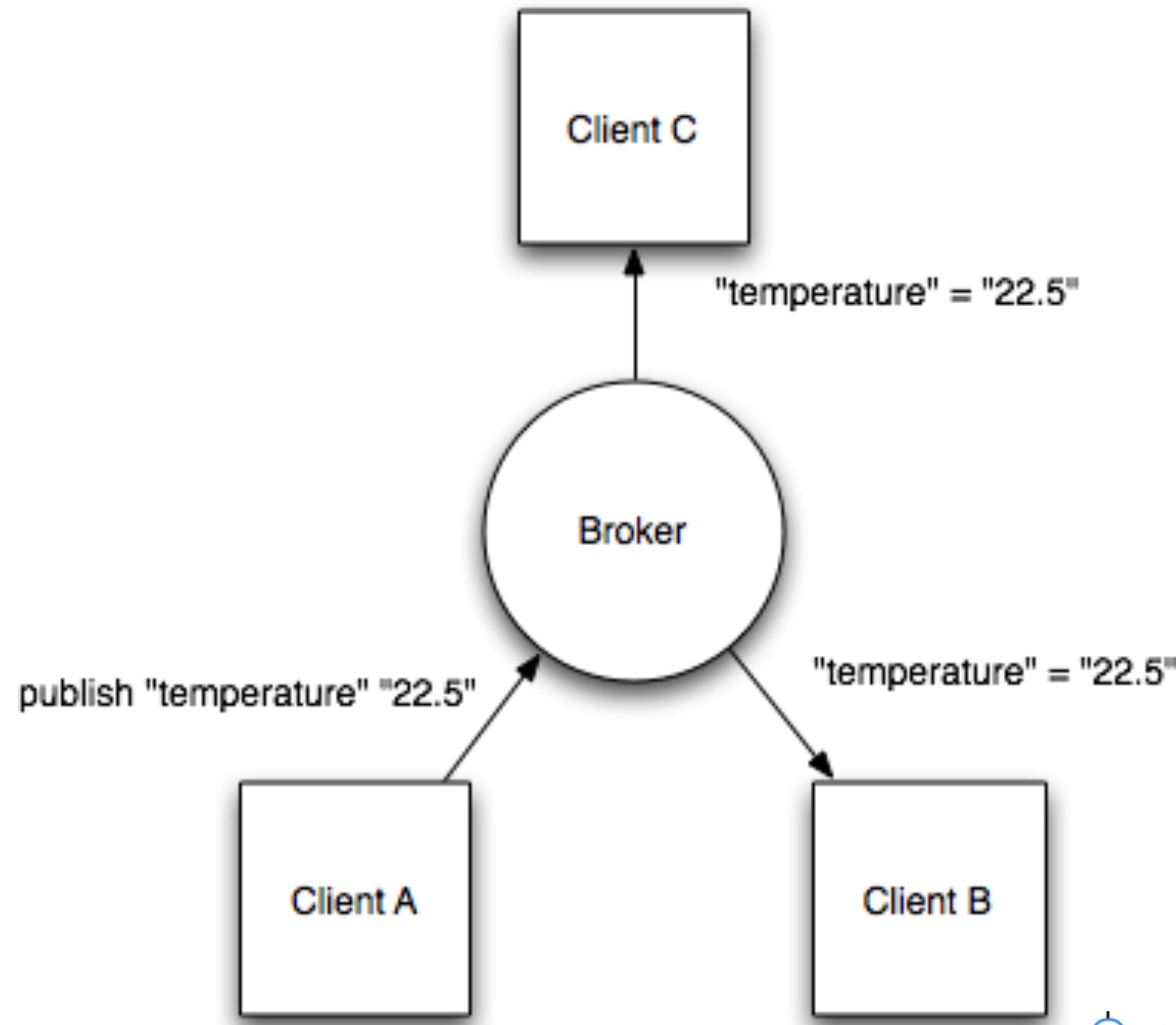
[binary payload \(not text\)](#)

[small clients:](#) 30 KB (C), 100 KB (Java)

[minimal protocol exchanges](#)

MQTT has configurable keep alive
(2 byte PINGREQ / PINGRES)



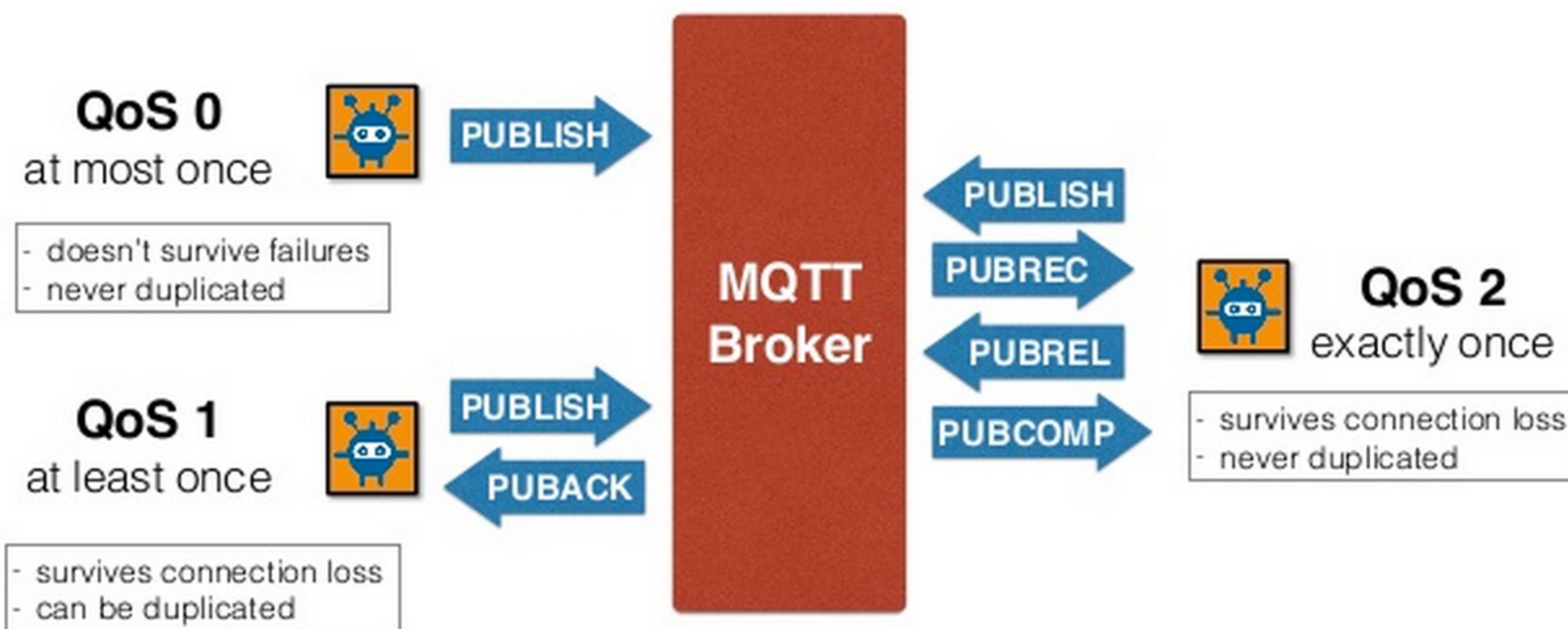


Valid MQTT topic

- /HelloCMMC/gearname/plug001/status
- /HelloCMMC/gearname/+status
- /HelloCMMC/gearname/#
- /HelloCMMC/+/+
- #

MQTT

Quality of Service for [reliable messaging](#)



<http://cmmc.io/netpie/client>

The screenshot shows a web browser window titled "cmmc.io" displaying the "CHIANG MAI MAKERCLUB" website. The page is powered by "HiveMQ WebSocket Client".

Connection

APP ID: HelloNETPIE APP KEY: 9HuXazCFni43SQg APP SECRET: HpCqdbzC8DNld8A6kQ4Ks8l Connect

Publish Subscriptions

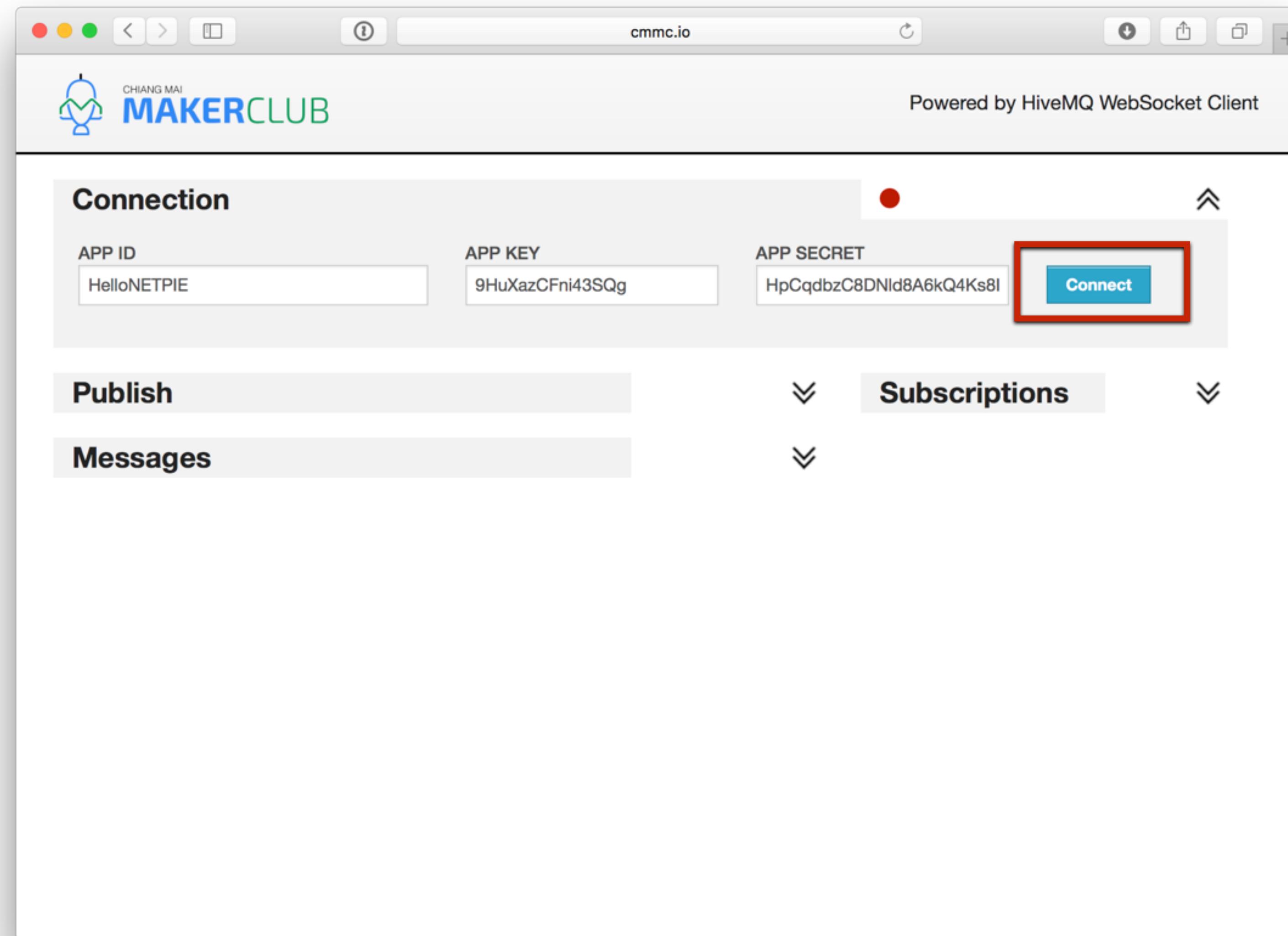
Messages

netpie-client

APPID : HelloNETPIE

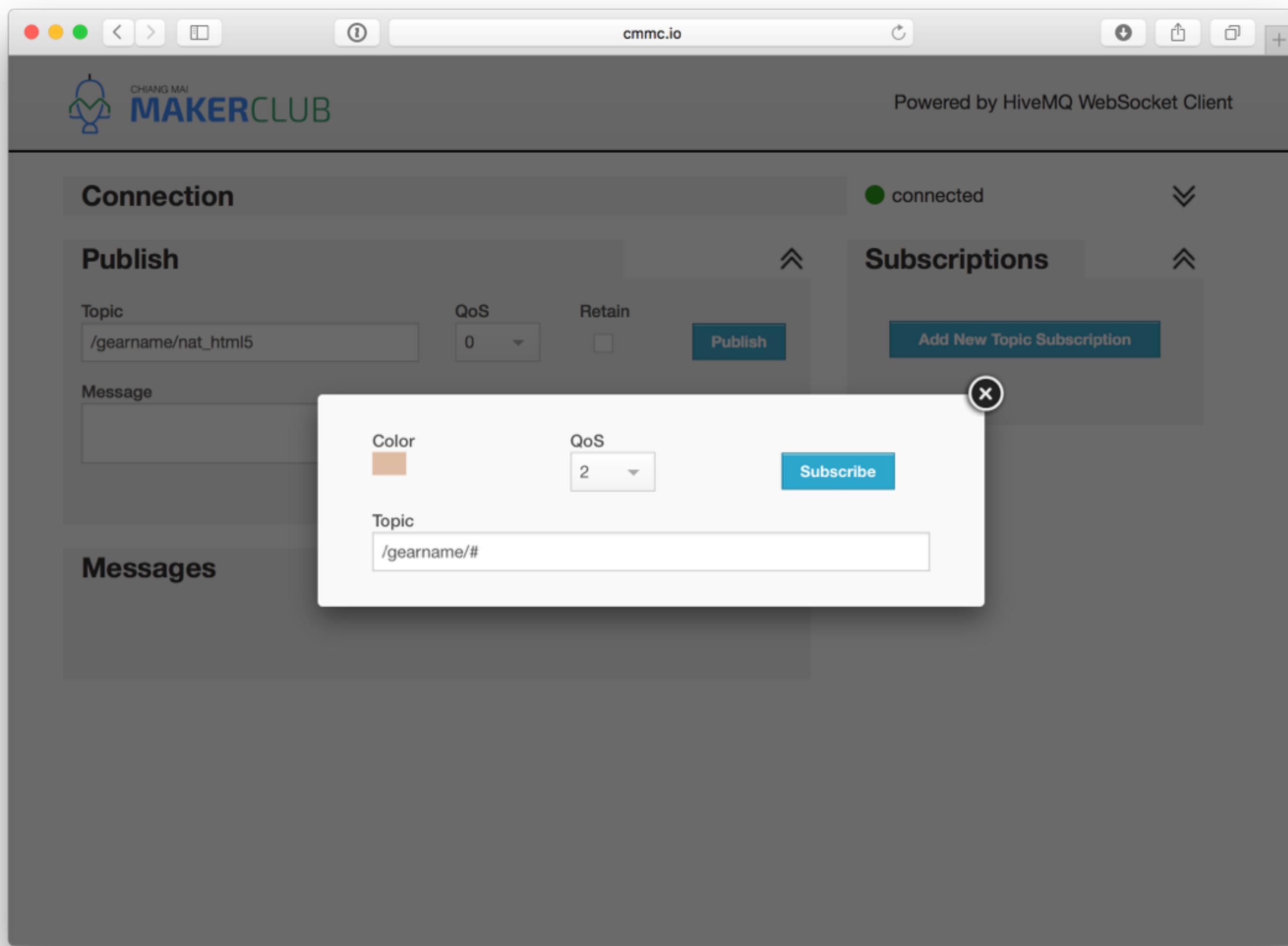
Key : 5ifAnB7E3sva4Id

Secret : jijxisdhZuMLHnbH20KFtmG9V



The screenshot shows the CHIANG MAI MAKERCLUB MQTT client interface running in a web browser (cmmc.io). The interface is divided into several sections:

- Connection:** Shows the application is connected. Fields include APP ID (HelloCMMC), APP KEY (ls4NBM0SoMqfijU), and APP SECRET (TRgtedpFgBLvM44tlqU6Kxhj). A "Disconnect" button is also present.
- Publish:** Allows publishing messages to a topic. The Topic field is set to /gearnname/nat_html5, QoS is 0, Retain is unchecked, and a "Publish" button is available.
- Subscriptions:** A section for managing topic subscriptions. It contains a button labeled "Add New Topic Subscription" which is highlighted with a red border.
- Messages:** A section for viewing received messages, currently empty.



The screenshot shows the cmmc.io MQTT client interface. At the top, it says "Powered by HiveMQ WebSocket Client". The interface includes a "Connection" status bar with a green dot indicating "connected", and a "Subscriptions" section listing a topic subscription for "/gearnname/#". The "Publish" section allows users to enter a topic ("/gearnname/nat_html5"), QoS (0), and Retain settings, with a "Publish" button. The "Messages" section displays three recent messages: a DHT/Humidity reading of 53.80 at 2016-07-14 21:22:04, a DHT/Temperature reading of 27.60 at the same time, and a plug status reading of 49.30 at the same time. All messages are from the topic "/HelloNETPIE/gearnname/".

CHIANG MAI
MAKERCLUB

cmmc.io

Powered by HiveMQ WebSocket Client

Connection

connected

Publish

Topic: /gearnname/nat_html5 QoS: 0 Retain:

Message:

Subscriptions

Add New Topic Subscription

Qos: 2 /gearnname/#

Messages

2016-07-14 21:22:04 Topic: /HelloNETPIE/gearnname/DHT/Humidity
53.80

2016-07-14 21:22:04 Topic: /HelloNETPIE/gearnname/DHT/Temperature
27.60

2016-07-14 21:22:04 Topic: /HelloNETPIE/gearnname/plug002/humid
49.30

ESPert.io

- **Free** Cloud from **ESPert**
- MQTT broker and monitor panel
- Freeboard
- **Push Notification**
- Geo-fencing and Beacon Proximity

The screenshot shows a web browser window with the URL www.espert.io/user/login. The page title is "User Login" and the sub-page title is "Login to access ESPert.io". The main content area contains fields for "E-mail" and "Password", a "Reset Password" link, and two buttons: "Login" and "Reset". Below this is a "Click here to register" link and a "Login using Facebook" button.

ESpert.io

Home > Login

User Login

» Login to access ESPert.io

E-mail

Password

Reset Password

✓ Login

Reset

Click here to register

Or

Login using Facebook

www.espert.io/MySmartphone/send?key=56951599

Welcome, Jim

Send Push Notification »jim

Message

Deals

Commands

✓ Send! ⌂ Reset

http://www.espert.io/MySmartphone/send?key=56951599&message>Hello

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