

Hi All,

At SiliconCode, we are continually updating and innovating. In our latest implementation of remote switching, we are making use of a public broker available on the internet to connect between publisher and the subscriber. In our case, publisher is anyone who is subscribed to the broker (Host is : broker.hivemq.com ) and publishes to a topic (Light). The host connects to the client (publisher) through a specific port (8000). The subscriber is our microcontroller, which subscribes to the topic "Light" at the same broker. Whenever there is anything published ( either a 1 or 0 to the topic Light) the broker broadcasts to all the subscribers to that topic. We as a subscriber will execute a callback function when that happens and switch the light on or off accordingly.

Here are the steps :

Open the websocket link to the broker "hivemq" by clicking (Ctrl + click) on the link below :

[MQTT Websocket Client \(hivemq.com\)](https://www.hivemq.com/demos/websocket-client/)

For host enter : broker.hivemq.com

For port enter : 8000

(Don't have to change anything else)

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### Connection

Host:  Port:  ClientID:  [Connect](#)

Username:  Password:  Keep Alive:  SSL: ☐ Clean Session: ☒

Last-Will Topic:  Last-Will QoS:  Last-Will Retain: ☐

Last-Will Message:

**Publish** **Subscriptions** **Messages**


Click on Connect button on the top right.

It takes you to a Subscriber/Publisher window.

To switch on the light at the SiliconCode office, enter the topic as Light.

In the message box type 0 and press publish.

← ↻ ⚠ Not secure | www.hivemq.com/demos/websocket-client/ 🔍 ⭐ 📁 🔔 Not syncing

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**Connection** ● connected ⌵

**Publish** ⌵

Topic  QoS  Retain ☐ [Publish](#)

Message

**Subscriptions** ⌵

[Add New Topic Subscription](#)

**Messages** ⌵

The broker send this to all the subscribers to the topic “Light”.

This should switch the light OFF at our end.

Type 1 and publish. The broker send this to all the subscribers to the topic “Light”.

This will switch the light ON at our end.

Please let us know if you are interested in testing it, we will work with you.