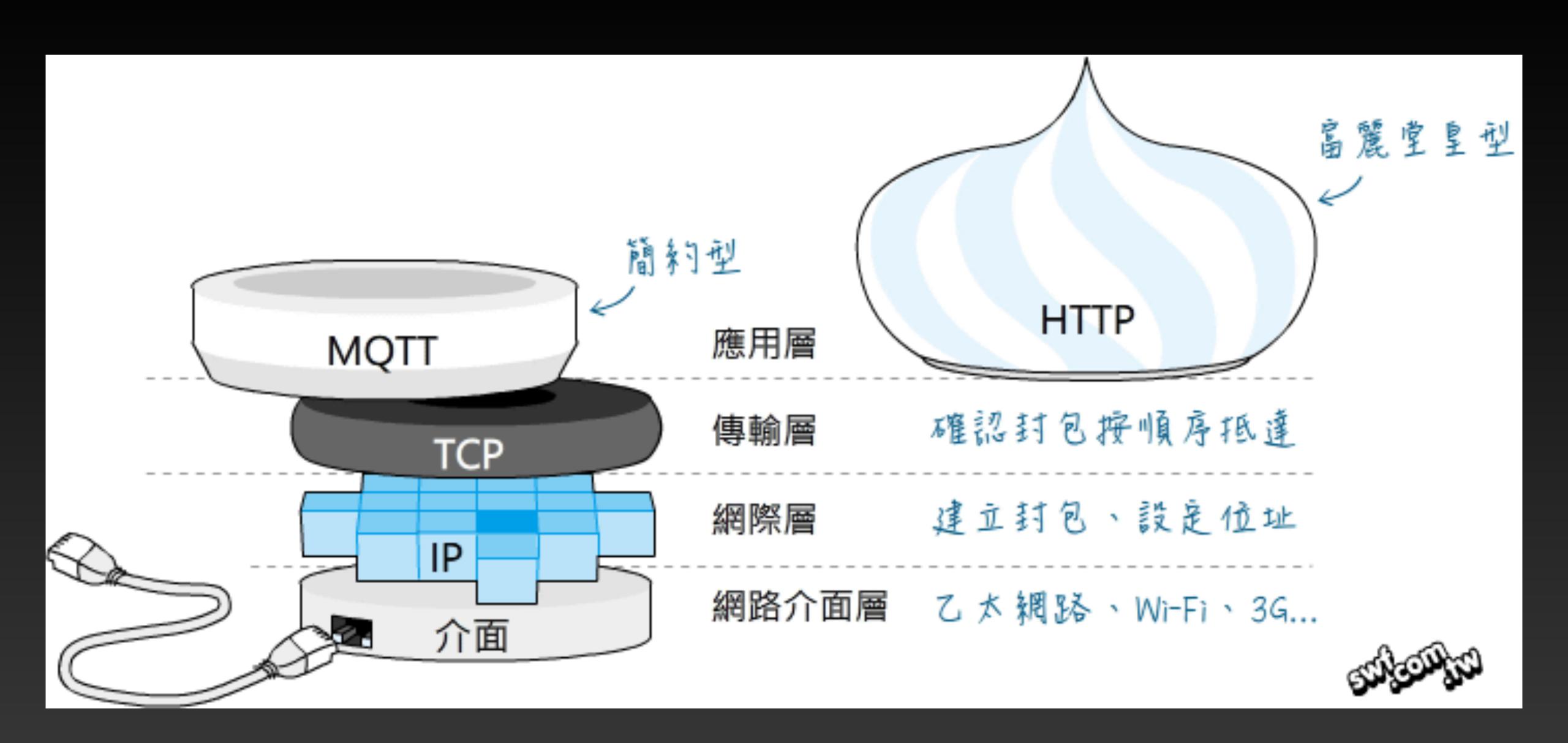
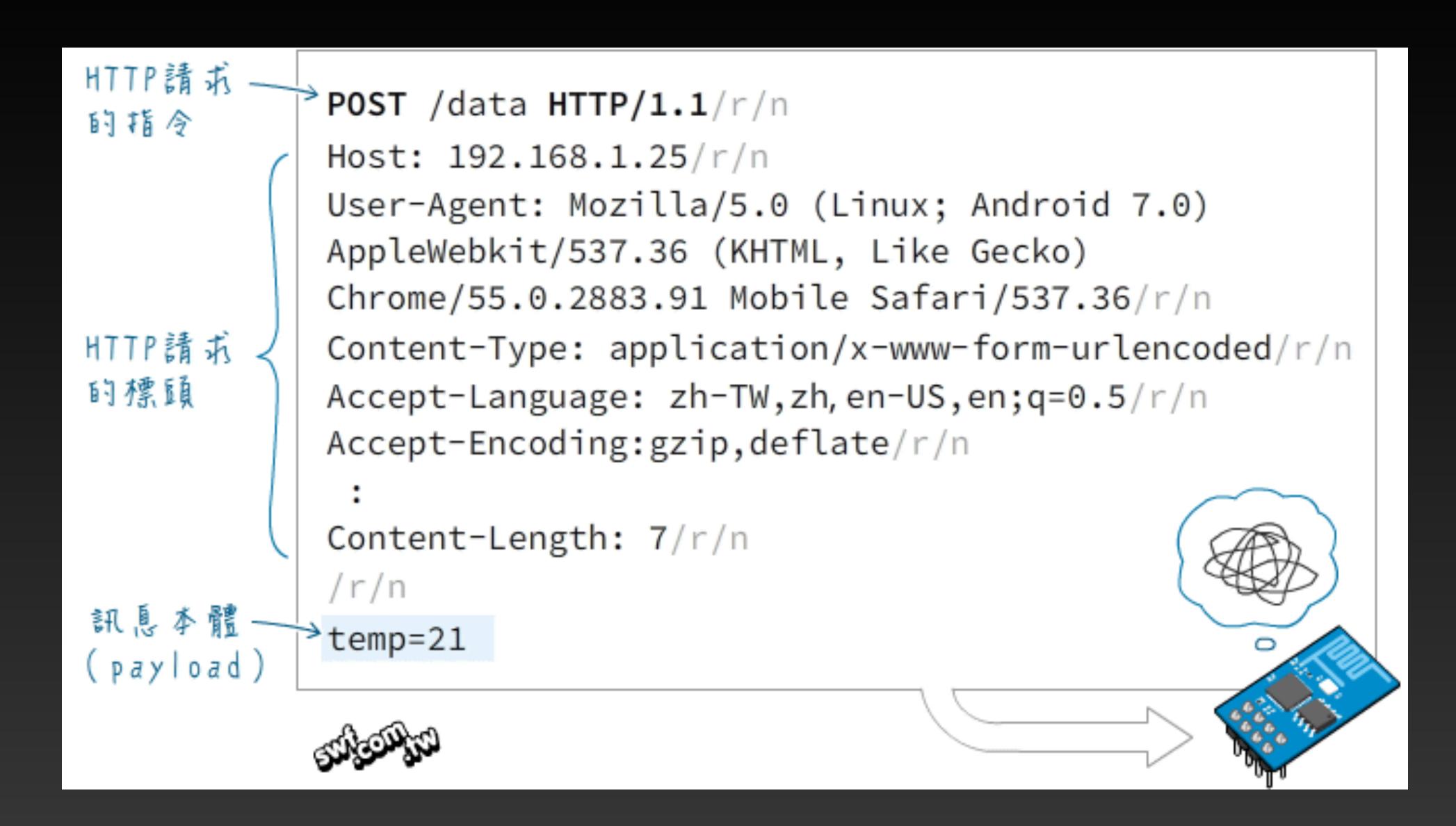
JavaScript 物聯網實作

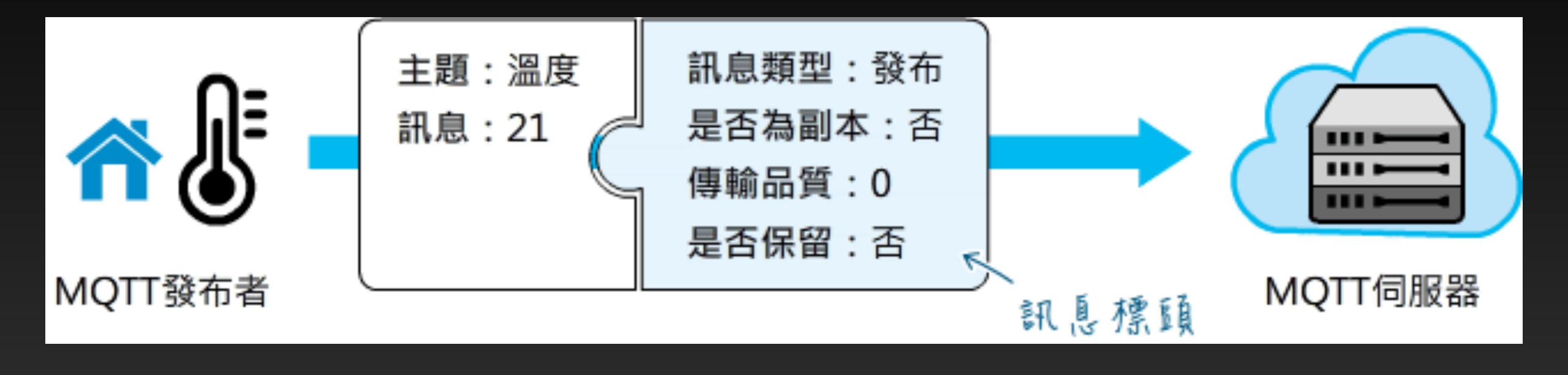
Node-RED 與 MQTT

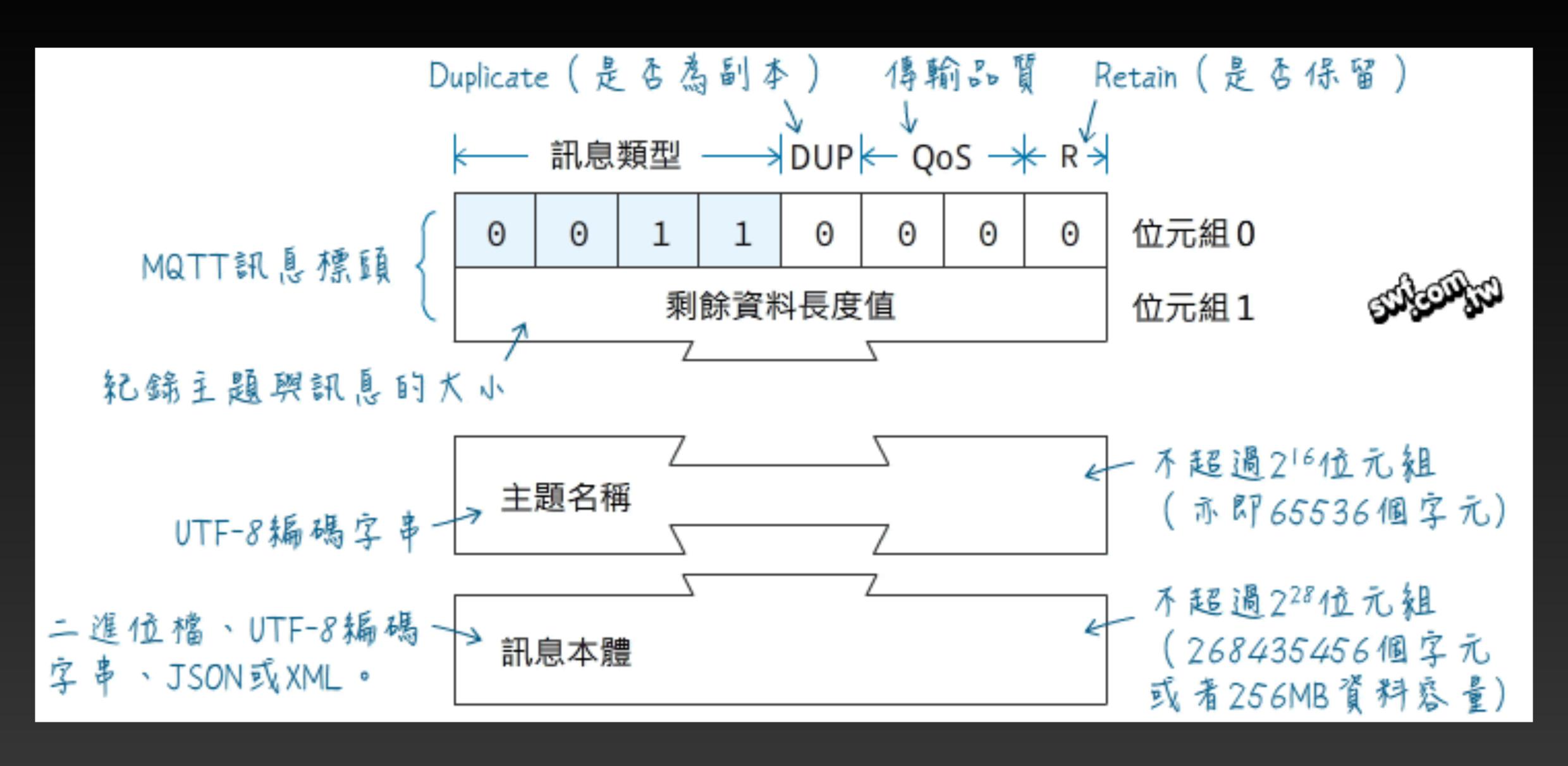
王昱景 Brian Wang brian.wang.frontline@gmail.com

試験区の

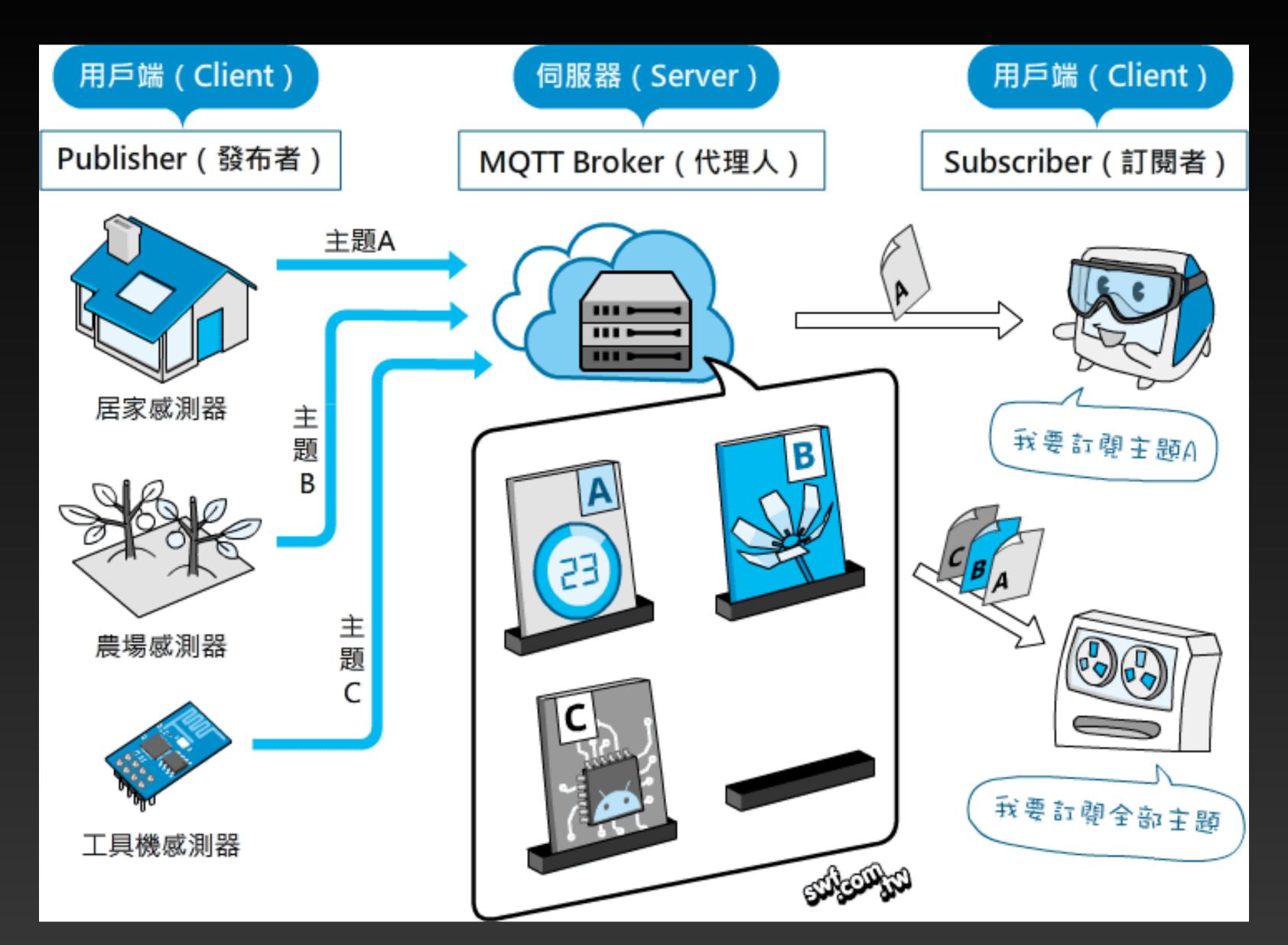




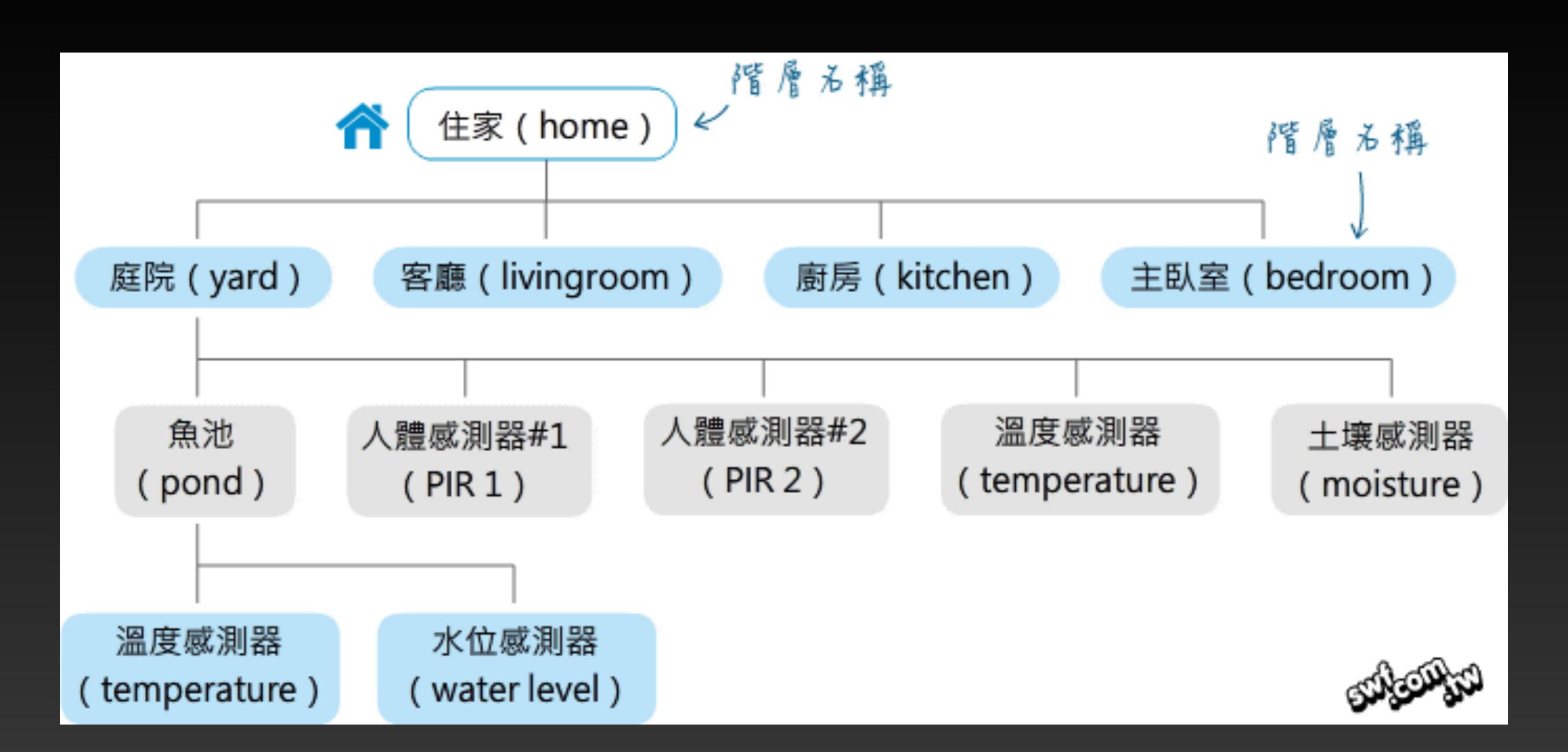




http://swf.com.tw/?p=1002



http://swf.com.tw/?p=1002



http://swf.com.tw/?p=1002

主題階層分隔字元 ↓ 住家/庭院/人體感測器1 ↑ 可用中文命名,但不建議。 不可包含#和+字元。

Silicon in

http://swf.com.tw/?p=1002

- 輕量、可靠的二進制通訊協定
- MOTT 協定的訊息內容很精簡,非常適合用於處理器資源及網路頻寬有限的物 聯網裝置
- MQTT 的標頭採用數字編碼,整個長度只佔2位元組,等同兩個字元,後面跟 著訊息的主題(topic)和內容(payload)
- MQTT 是一種基於「發布/訂閱」機制的訊息傳輸協定
- 代理人(broker)是個伺服器軟體,向伺服器發送主題的一方是發布者 (publisher),從伺服器獲取主題的一方則是訂閱者(subscriber)
- MQTT 主題名稱是 UTF-8 (萬國碼)編碼的字串,主題名稱也支援類似檔案路徑的階層式命名方式

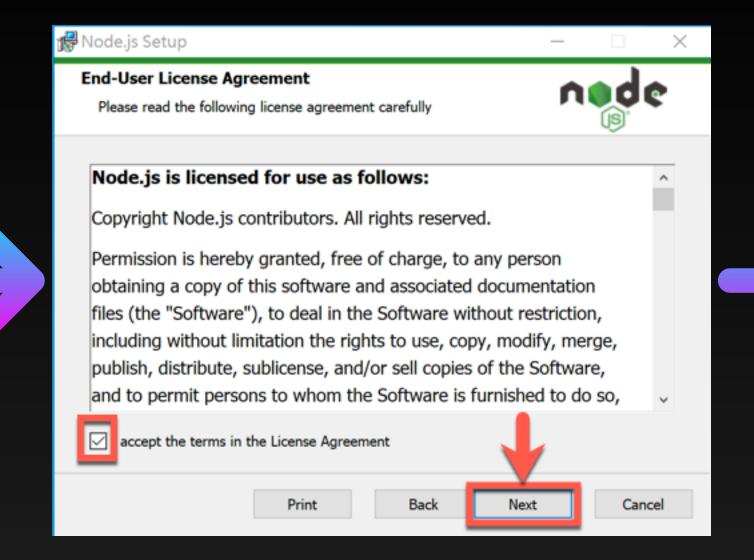
安裝 Node-RED

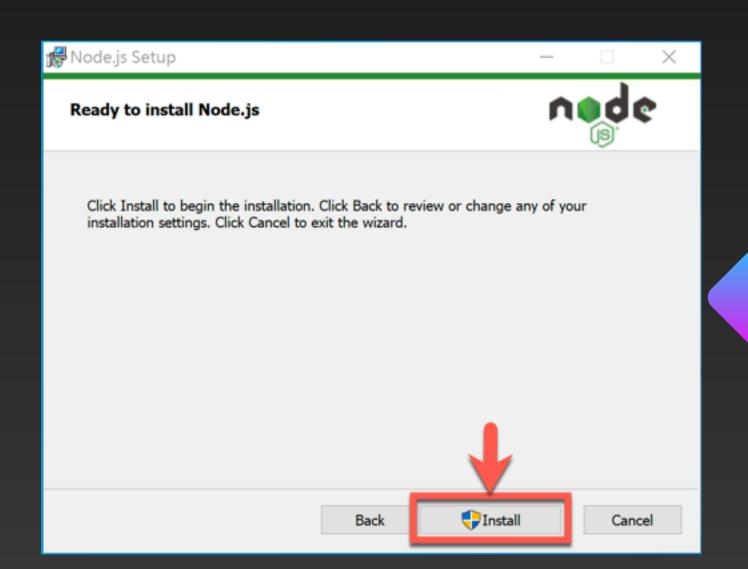
安裝 Node.js

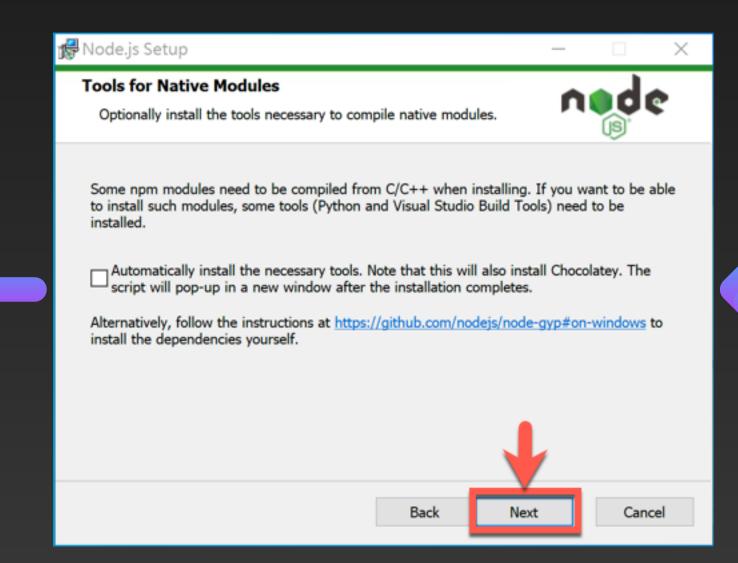


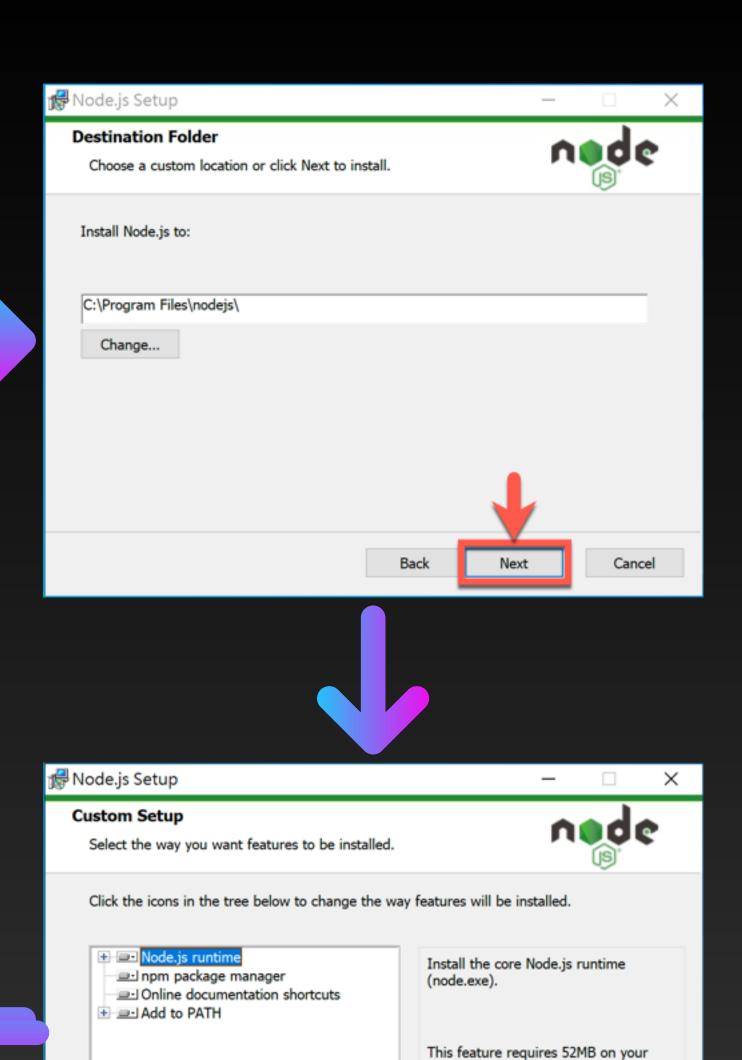
https://nodejs.org/en/







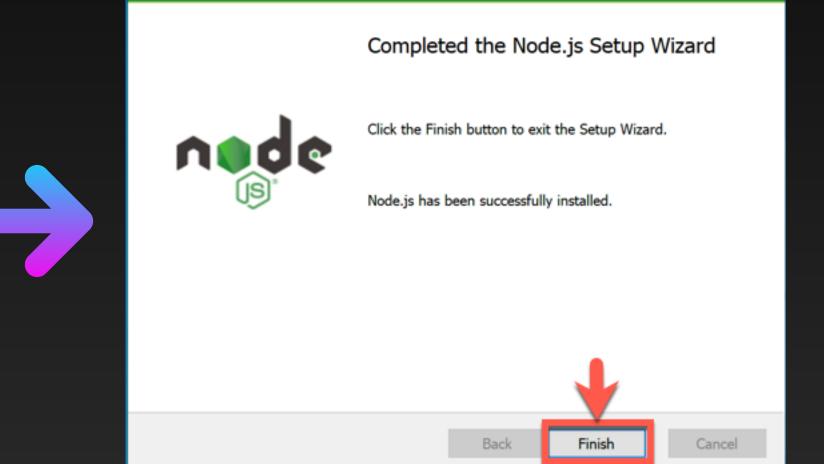




hard drive. It has 1 of 1 subfeatures selected. The subfeatures require

12KB on your hard drive.





∰ Node.js Setup

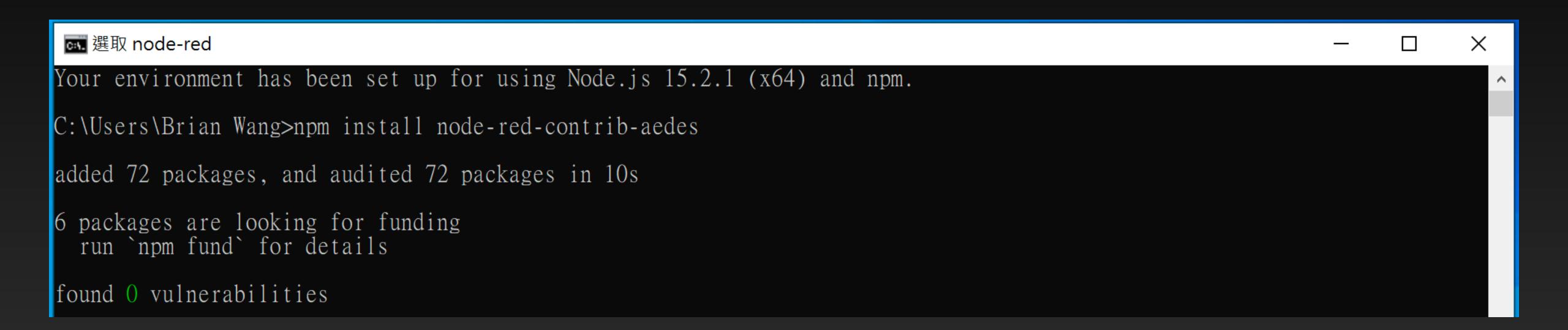
安裝 Node-RED

- 安裝 Node.js 完成後,打開終端機
- 輸入 npm install -g node-red 就可以完成 Node-RED 的安裝
- 如果是 Mac 前面要加上 sudo
- 安裝完成後,只要繼續輸入 node-red,就會啟動 Node-RED

安裝 Aedes MQTT Boker

安裝 Aedes MQTT Boker

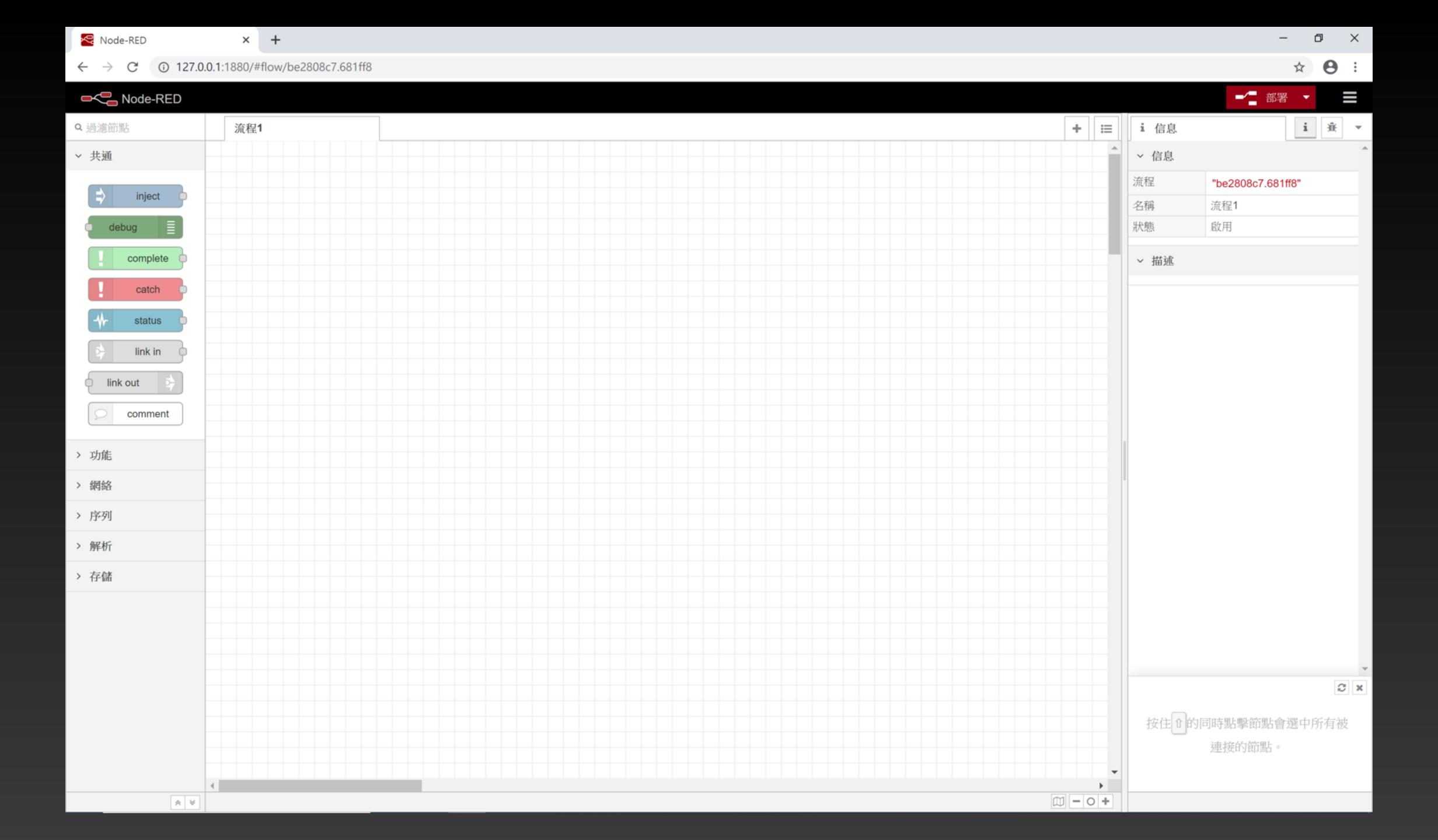
- 打開終端機
- 輸入 npm install node-red-contrib-aedes
- 如果是 Mac 前面要加上 sudo
- https://flows.nodered.org/node/node-red-contrib-aedes



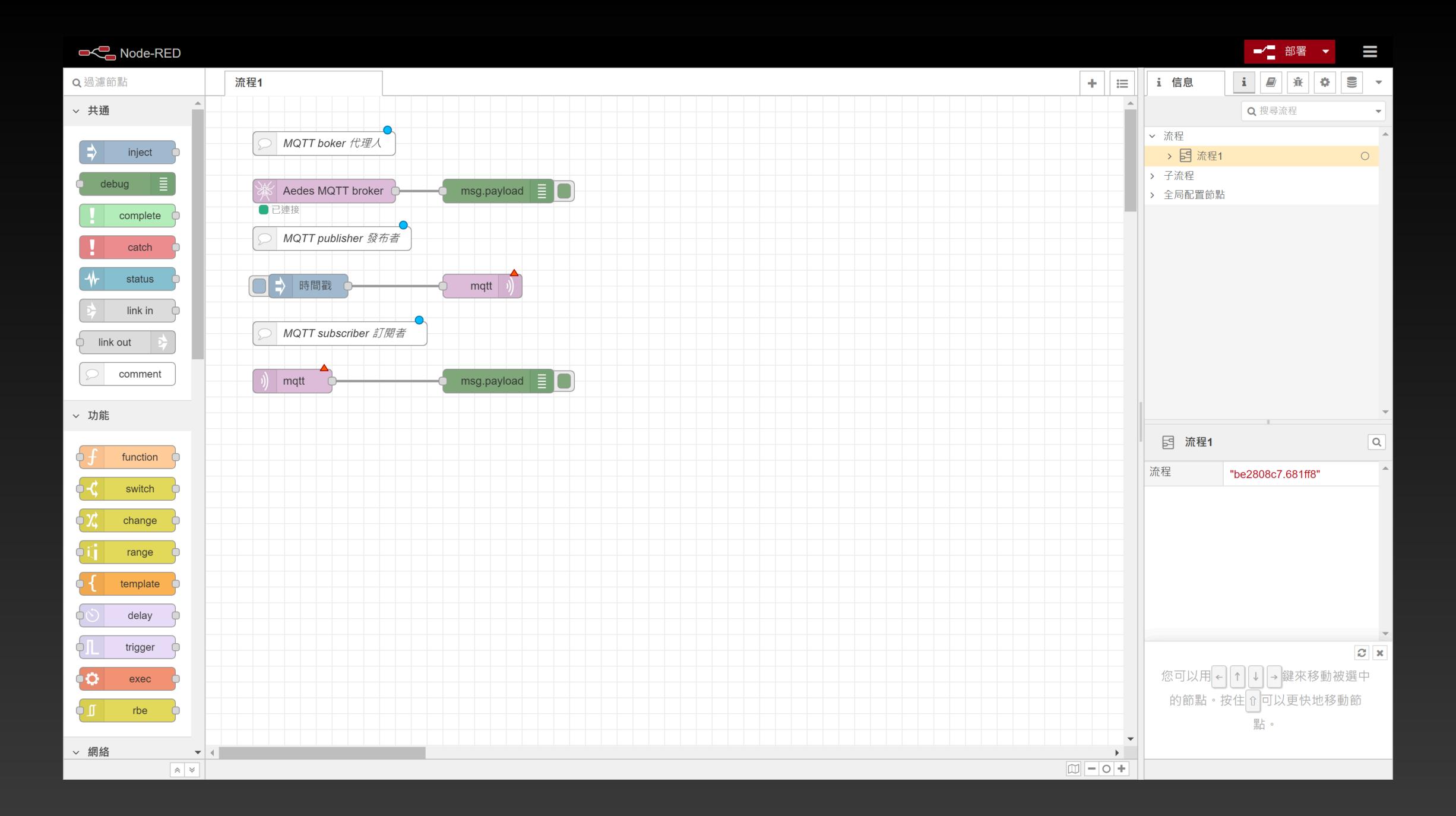
啟動 Node-RED

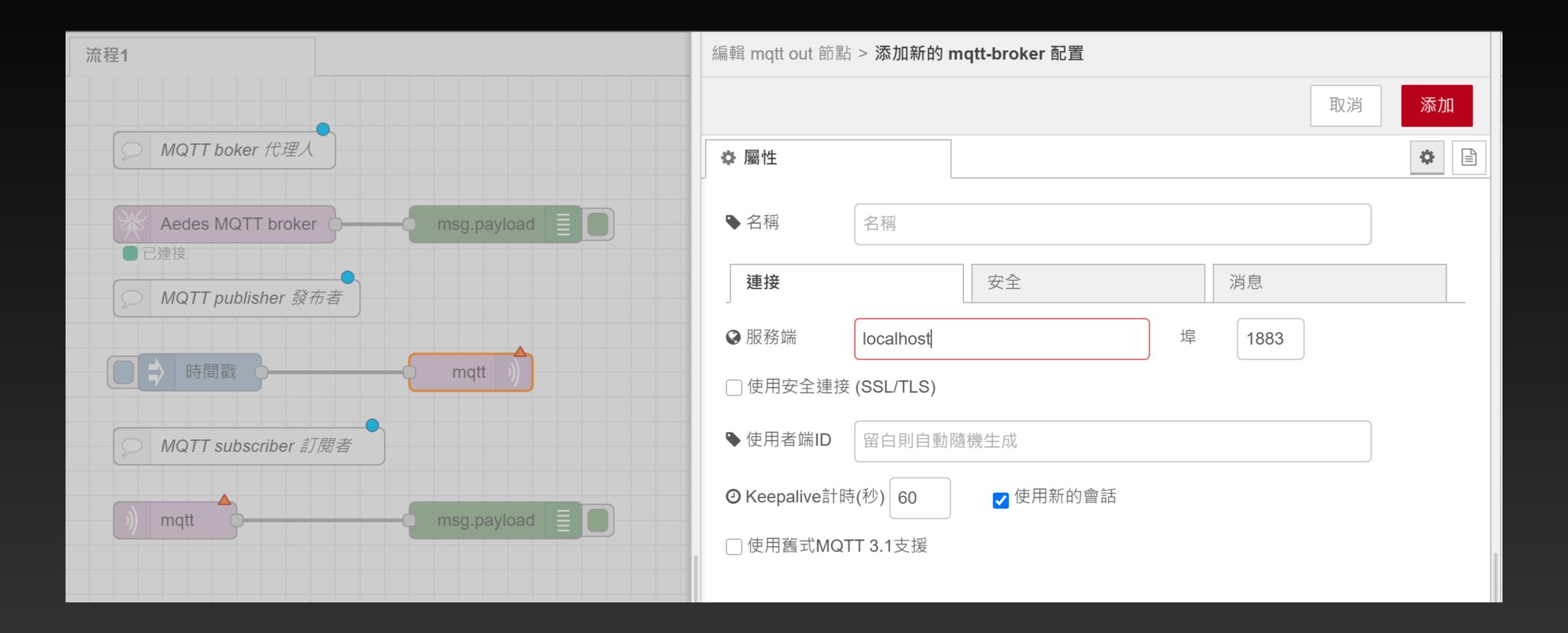
- 打開終端機輸入 node-red 就會啟動 Node-RED
- 打開瀏覽器,網址列輸入 http://127.0.0.1:1880/,就可以打開 Node-RED
- 左邊是一些功能流程的節點,每個節點都有各自的功能
- 中間的區域就是透過這些節點組成流程圖

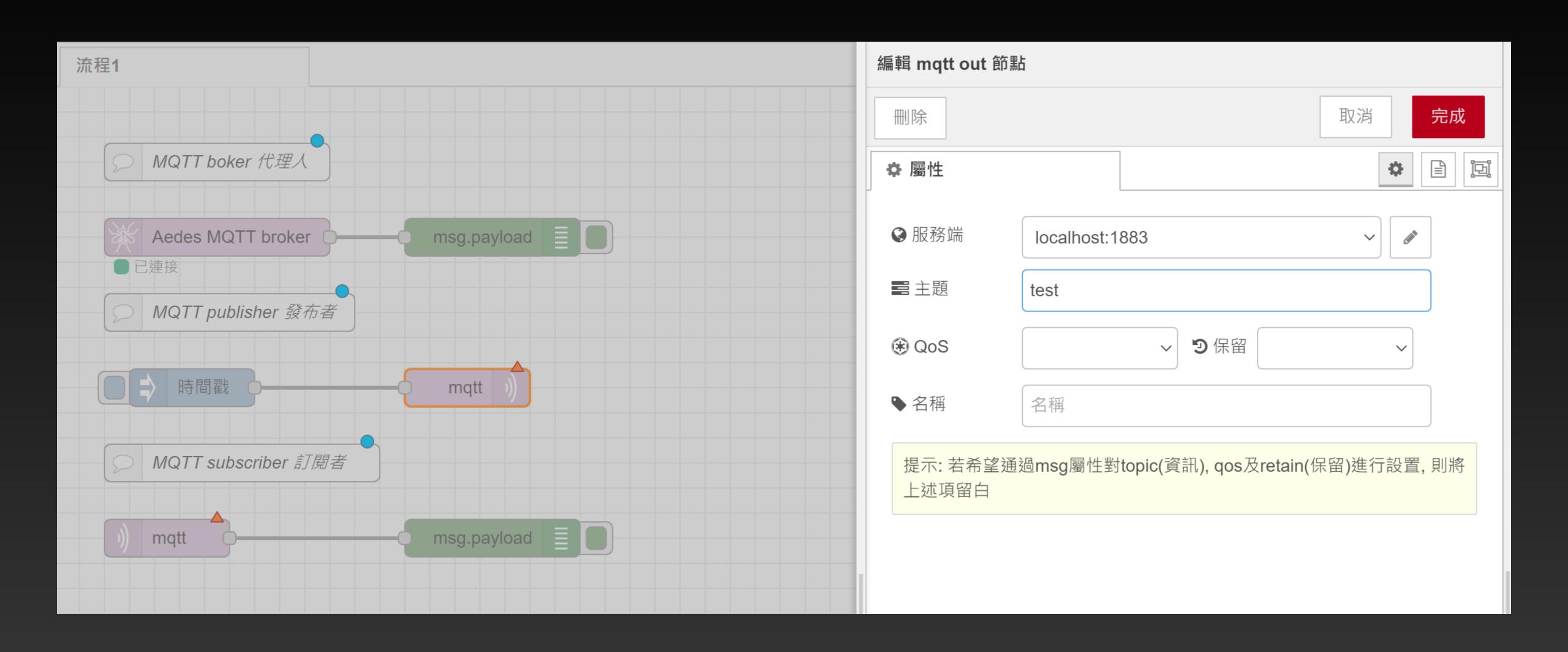
```
node-red
C:\Users\Brian Wang>node-red
27 May 21:19:26 - [<del>Info]</del>
Welcome to Node-RED
27 May 21:19:26 - [info] Node-RED version: v1.0.6
27 May 21:19:26 - [info] Node.js version: v12.17.0
27 May 21:19:26 - [info] Windows_NT 10.0.18362 x64 LE
27 May 21:19:27 - [info] Loading palette nodes
27 May 21:19:28 - [info] Settings file : C:\Users\Brian Wang\.node-red\settings.js
27 May 21:19:28 - [info] Context store : 'default' [module=memory]
27 May 21:19:28 - [info] User directory : C:\Users\Brian Wang\.node-red
27 May 21:19:28 - [warn] Projects disabled : editorTheme.projects.enabled=false
27 May 21:19:28 - [info] Flows file : C:\Users\Brian Wang\.node-red\flows_DESKTOP-9TIQAEG.json
27 May 21:19:28 - [info] Creating new flow file
27 May 21:19:28 - [warn]
Your flow credentials file is encrypted using a system-generated key.
If the system-generated key is lost for any reason, your credentials
file will not be recoverable, you will have to delete it and re-enter
your credentials.
You should set your own key using the 'credentialSecret' option in
your settings file. Node-RED will then re-encrypt your credentials
file using your chosen key the next time you deploy a change.
27 May 21:19:28 - [info] Server now running at http://127.0.0.1:1880/
27 May 21:19:28 - [info] Starting flows
27 May 21:19:28 - [info] Started flows
```

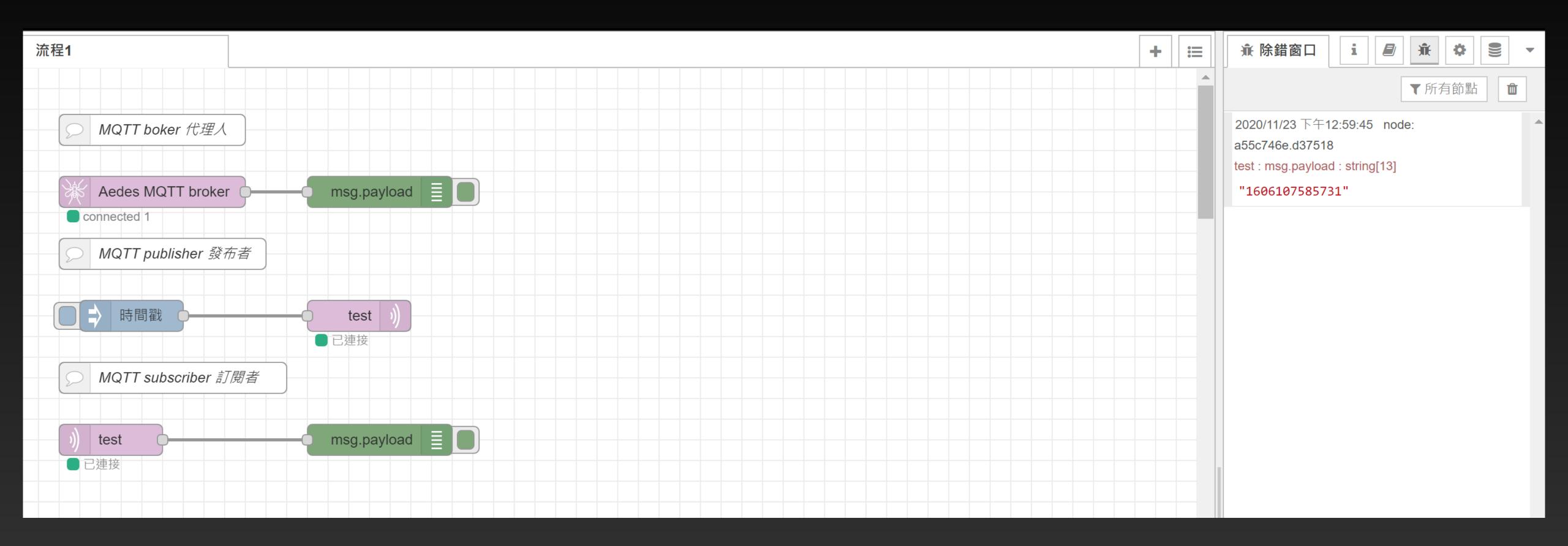


實作MOTT









講義、範例程式下載:

http://ycwang812.at.tw

Repositories > UCH

 https://github.com/ ycwang812/UCH

