Node-red 安装

Node-red 安裝(nodejs 下載)

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🔒安全 | https://nodejs.org/en/download/

Latest LTS Version: **8.10.0** (includes npm 5.6.0)

Download the Node.js source code or a pre-built installer for your platform, and start developing today.

LTS Recommended For Most Users		Current Latest Features
Windows Installer	**macOS Installer**	**Source Code**
node-v8.10.0-x64.msi	node-v8.10.0.pkg	node-v8.10.0.tar.gz

Windows Installer (.msi)	32-bit	64-bit
Windows Binary (.zip)	32-bit	64-bit
macOS Installer (.pkg)	64-bit	
macOS Binary (.tar.gz)	64-bit	
Linux Binaries (x86/x64)	32-bit	64-bit
Linux Binaries (ARM)	ARMv6	ARMv7	ARMv8
Source Code	node-v8.10.0.tar.gz	

D.C
Design. Create
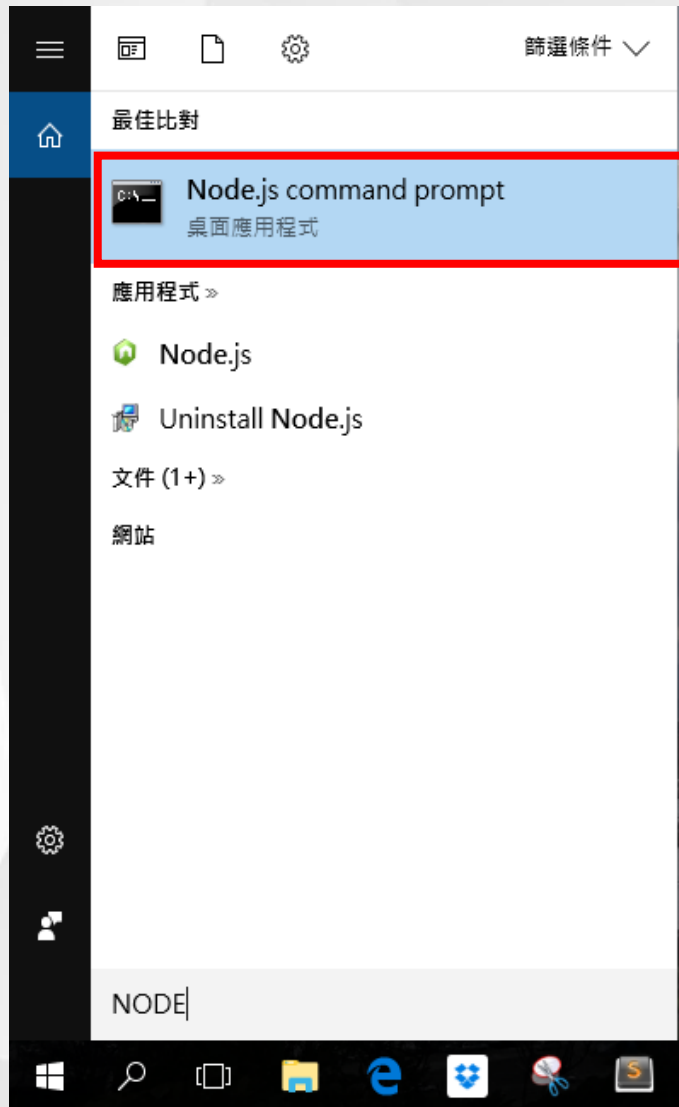
Node-red 安裝(安裝步驟)
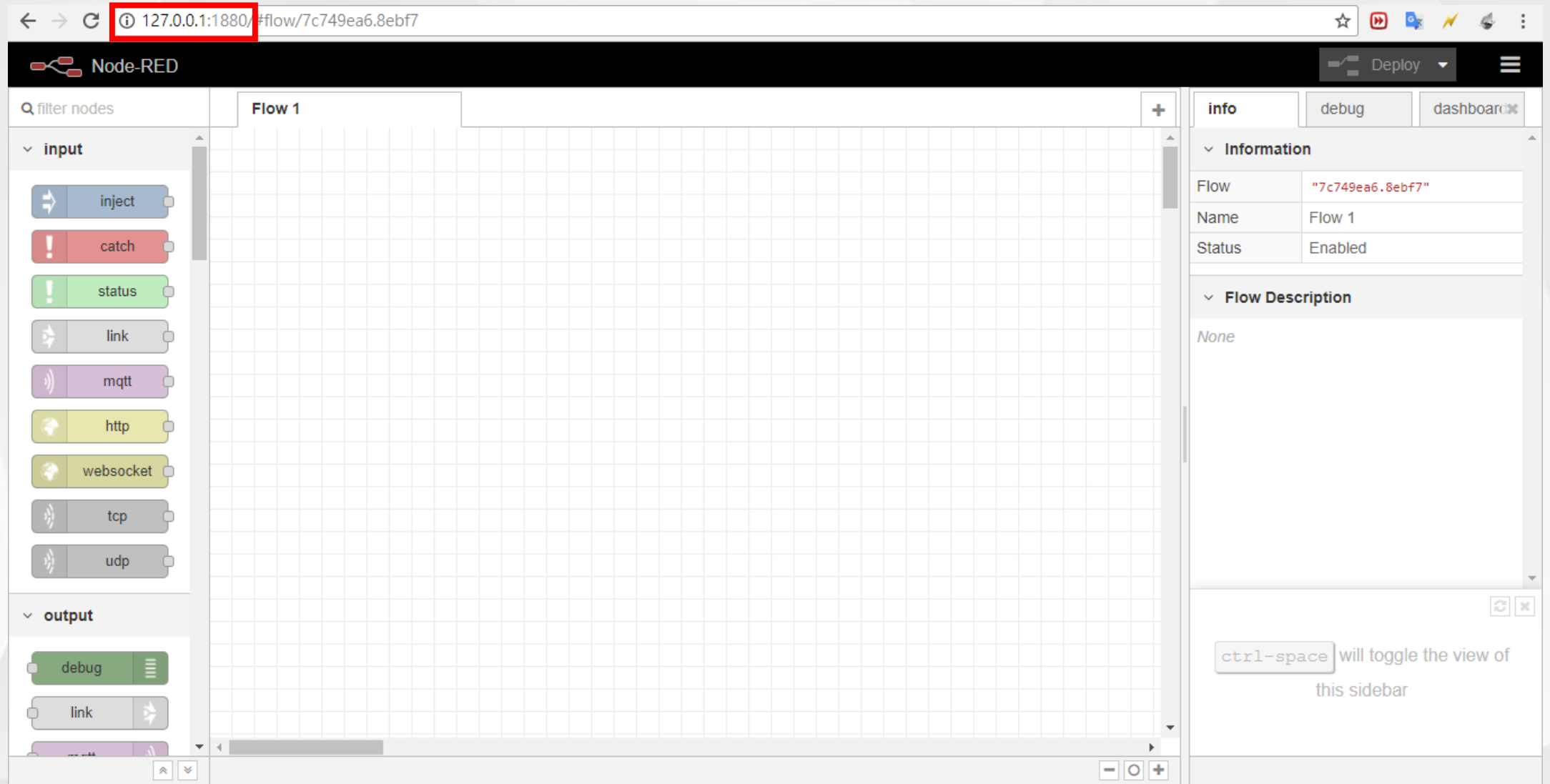

Step 1. npm install -g node-red

Step 2. npm i node-red-dashboard

Step 3. node-red

完成以上三步驟後
打開瀏覽器輸入:http://127.0.0.1:1880/

Node-red 安裝 (開啟瀏覽器)

Node-red 基本操作

Node-red 基本操作(介面介紹)

Node-red 基本操作

1.至dashboard->Layout

2.按+tab在Tab1處會浮出+group

3.增加完後，按Deploy

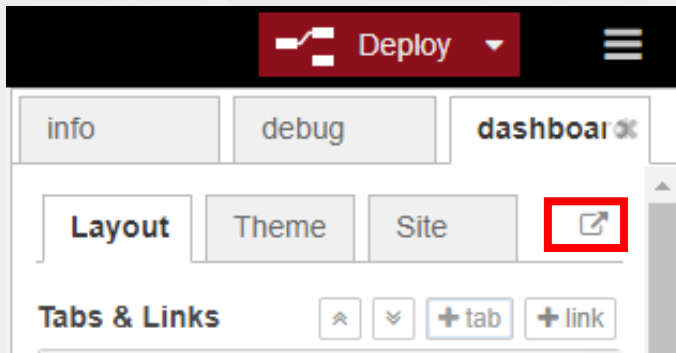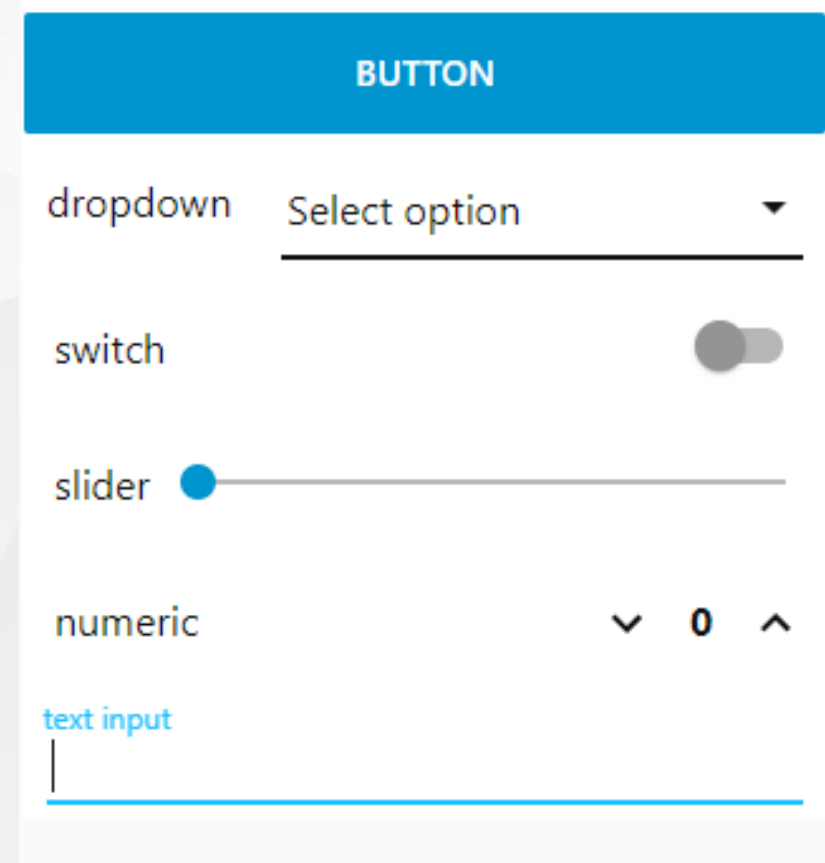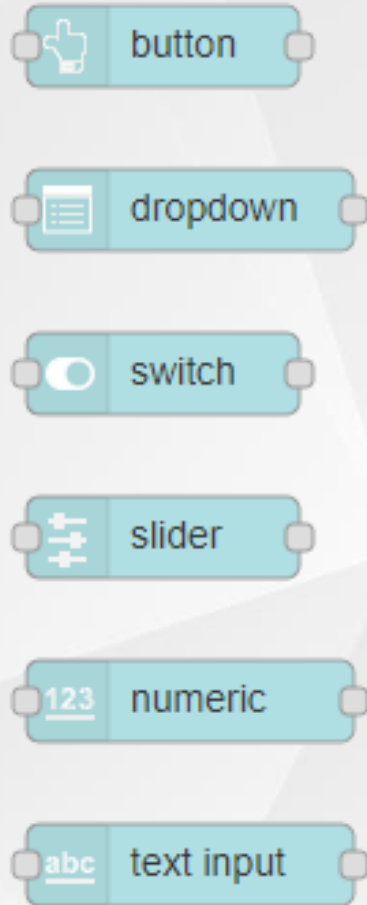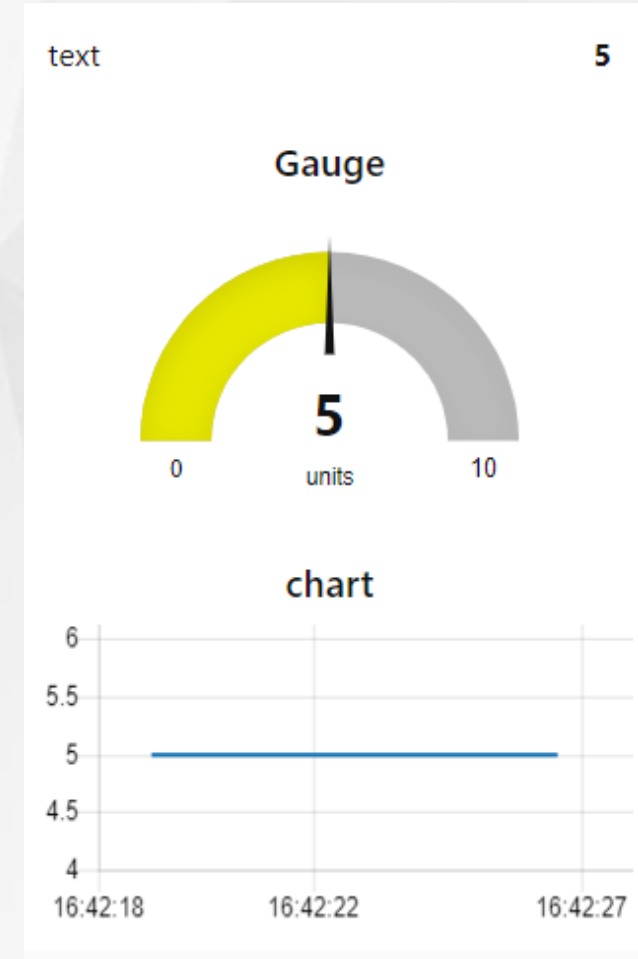# Node-red 基本操作
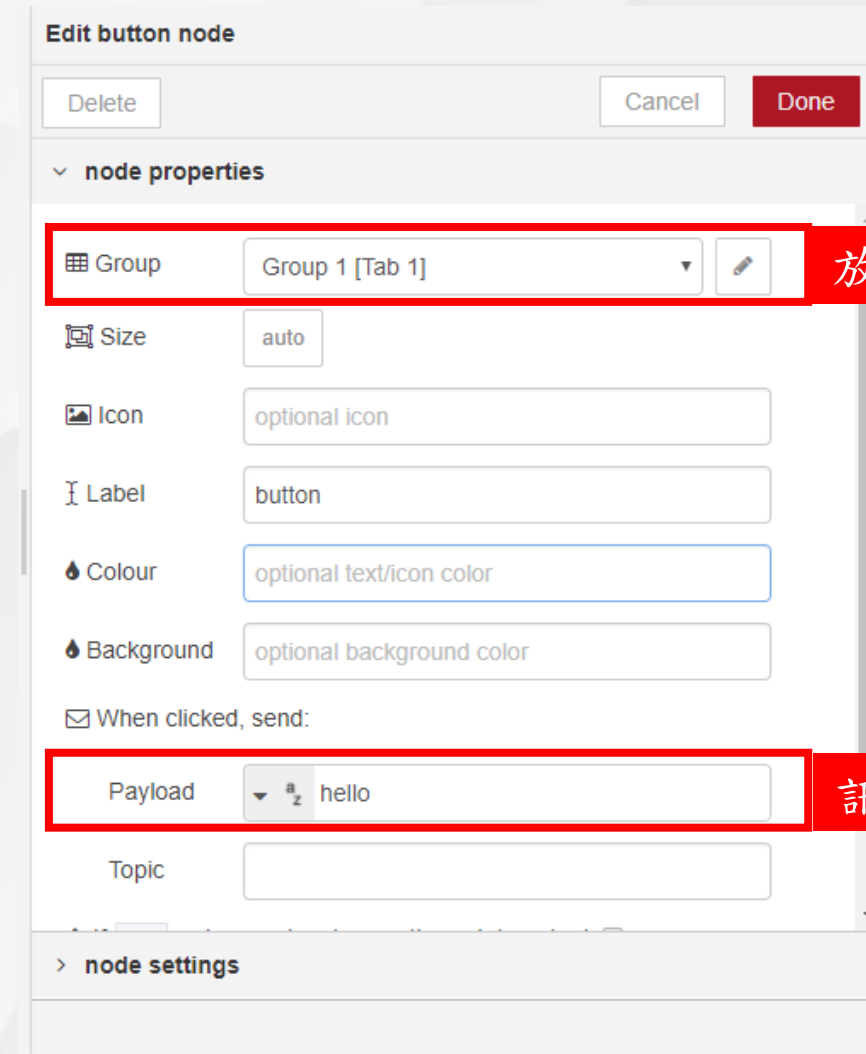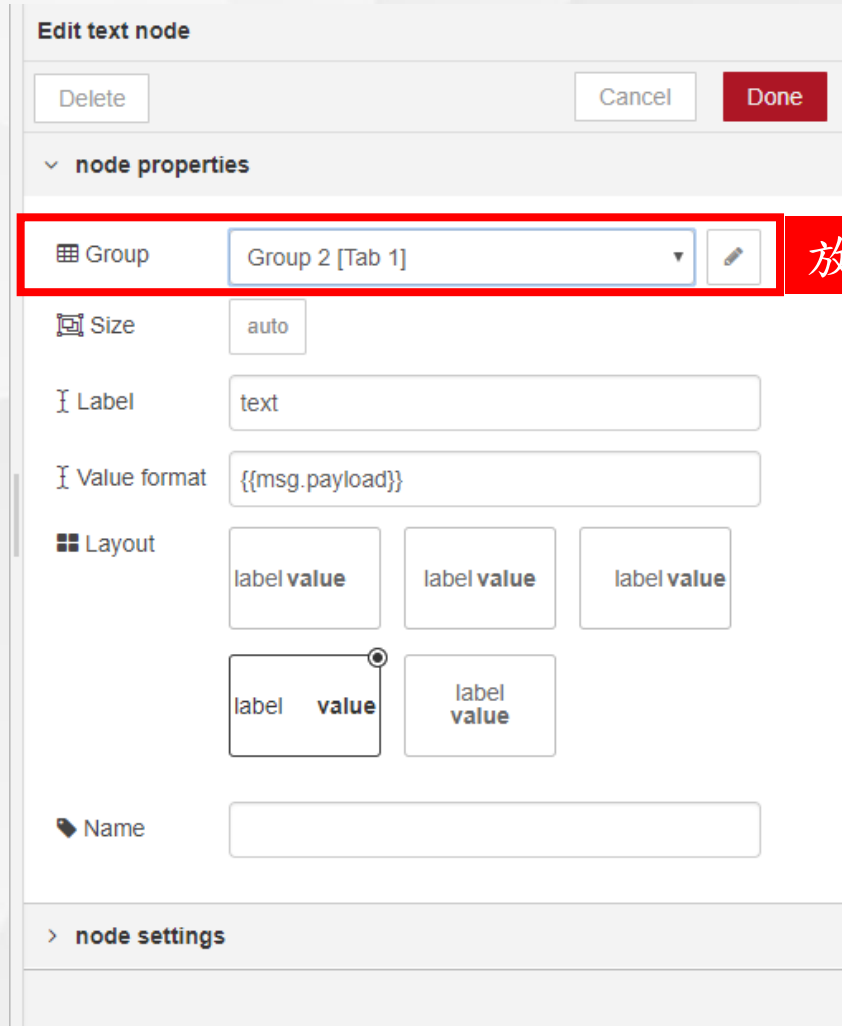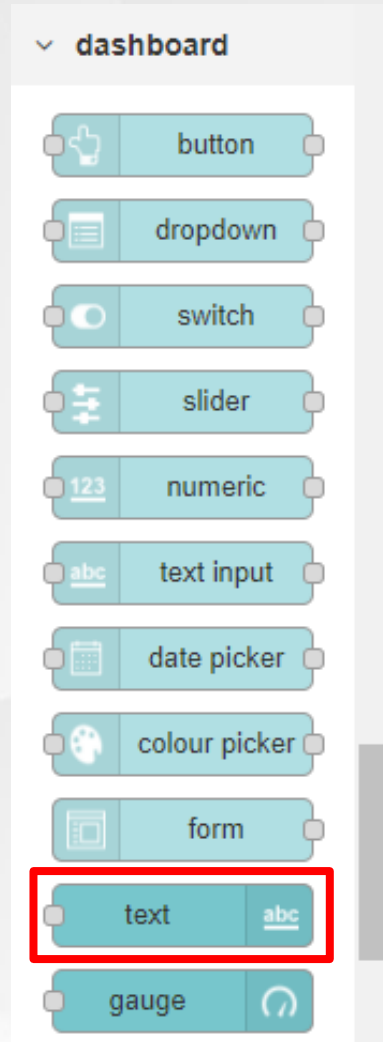
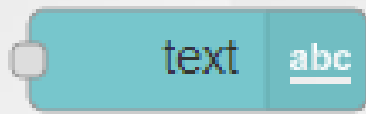# Node-red 基本操作

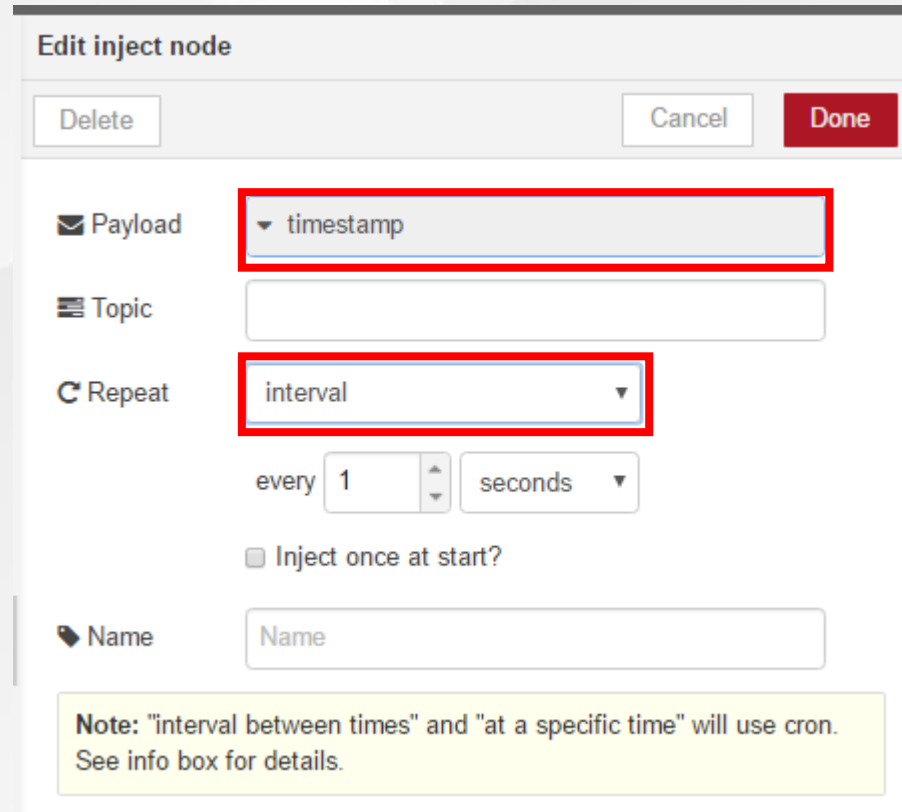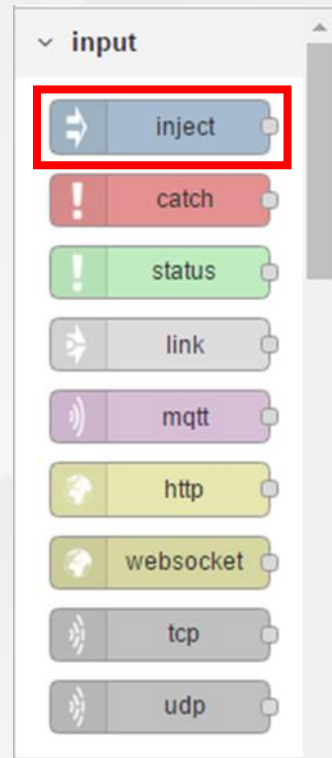# Node-red 基本操作

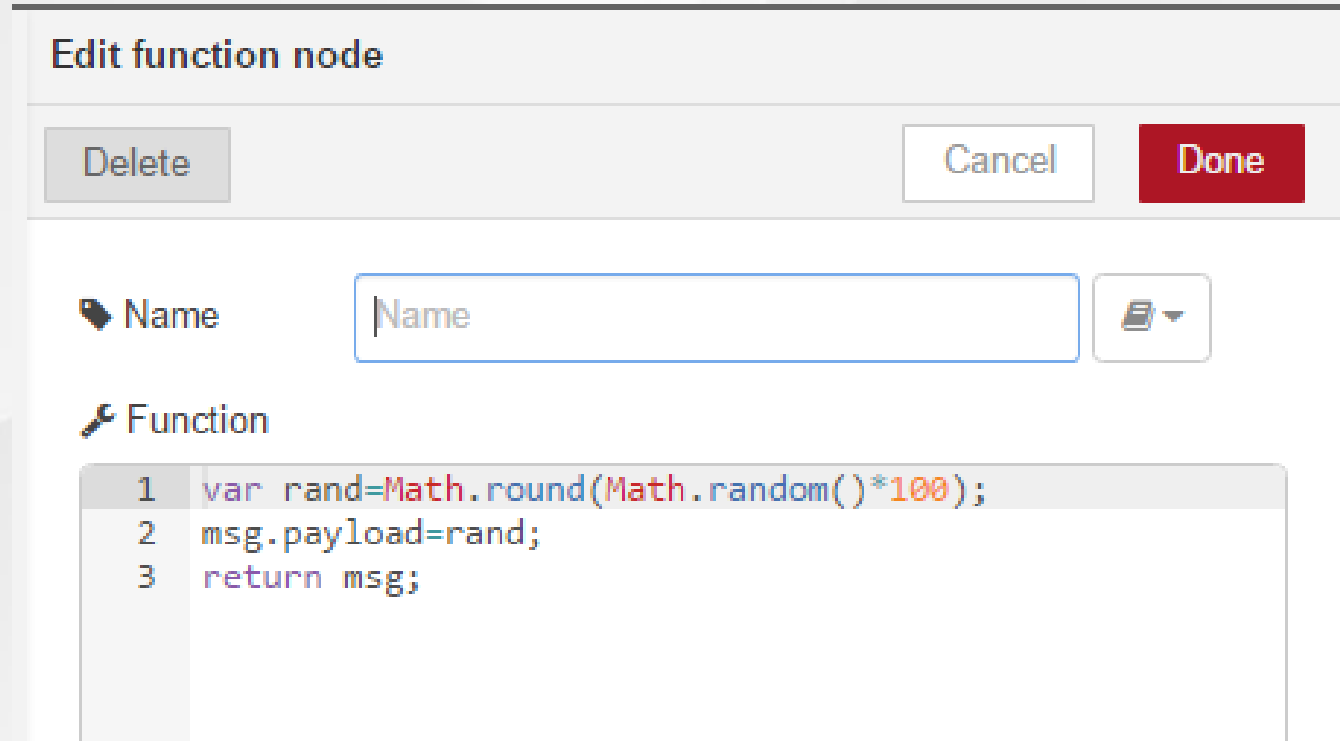點選紅色框框區域，將出現以下介面
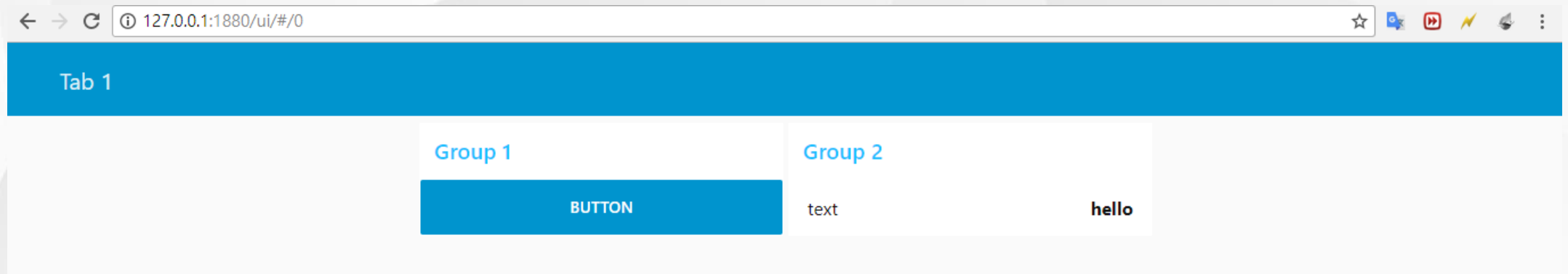
Node-red 基本操作(input元件)

Node-red 基本操作(output元件)
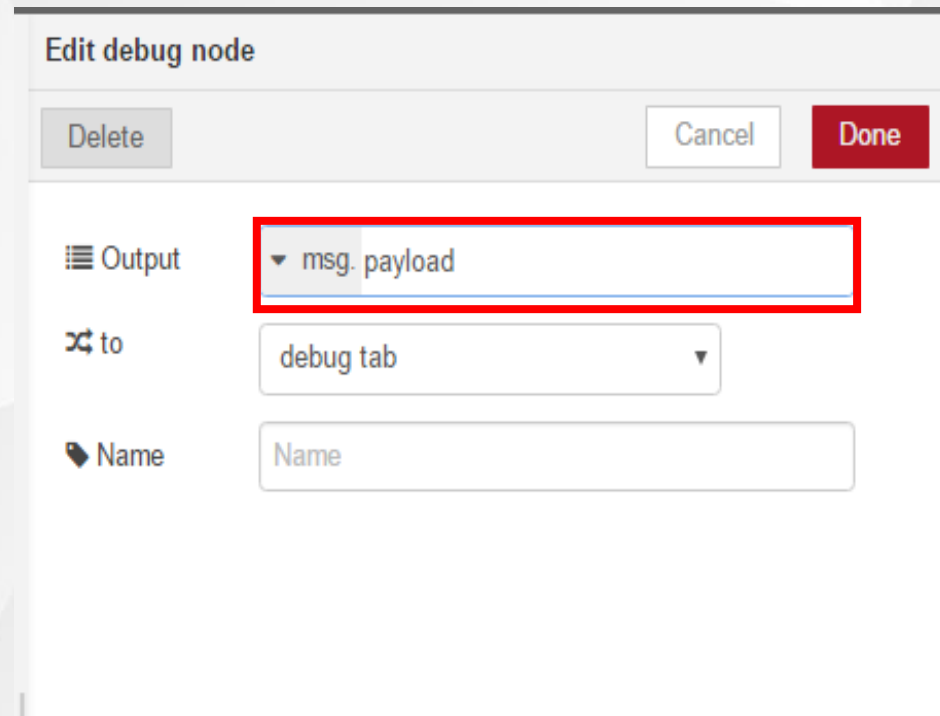
Node-red 基本操作

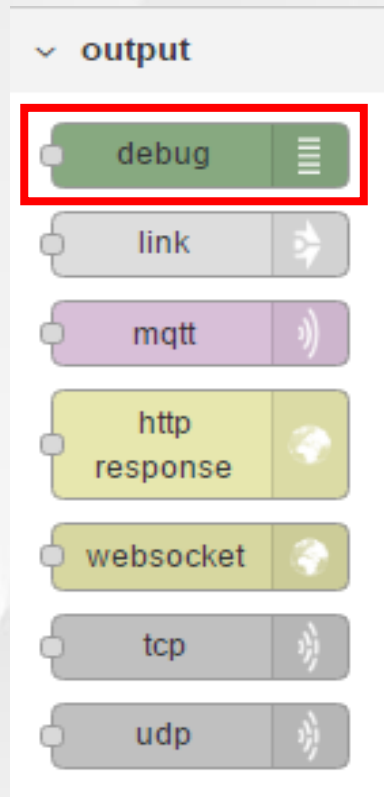Inject :可輸入字串、數字的訊息或設置時間反覆執行
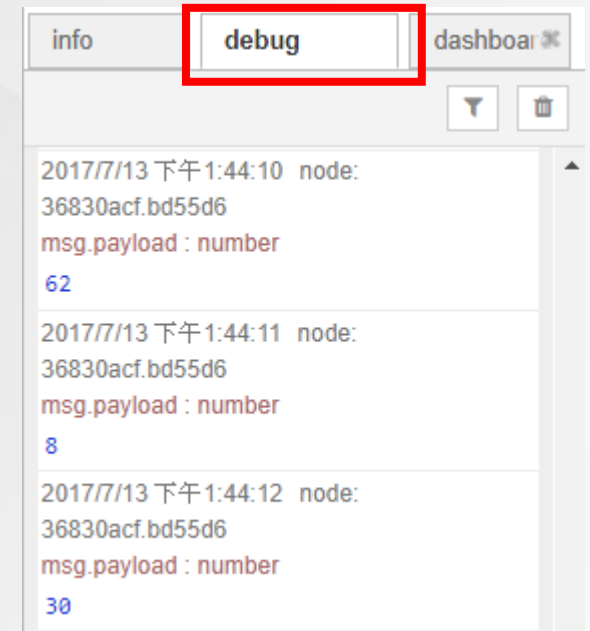
Node-red 基本操作

Function:撰寫程式做訊息或資料處理
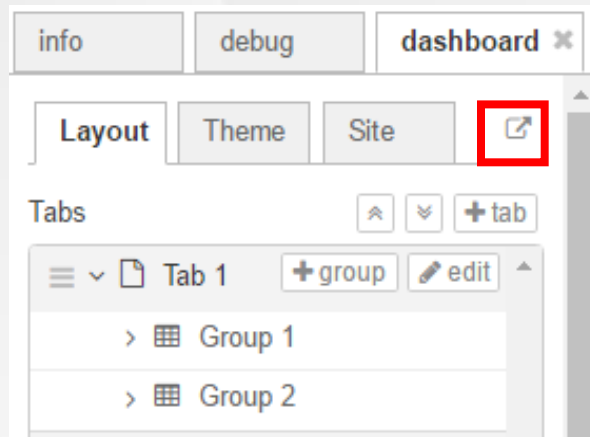
Node-red 基本操作

Debug:任何訊息顯示，若沒設定只顯示有關msg.payload之訊息

至debug->可即時監控

Node-red 基本操作

Step1.連接個別元件

Step2.記得按Deploy後至dashboard
點選紅色框框處即可出現
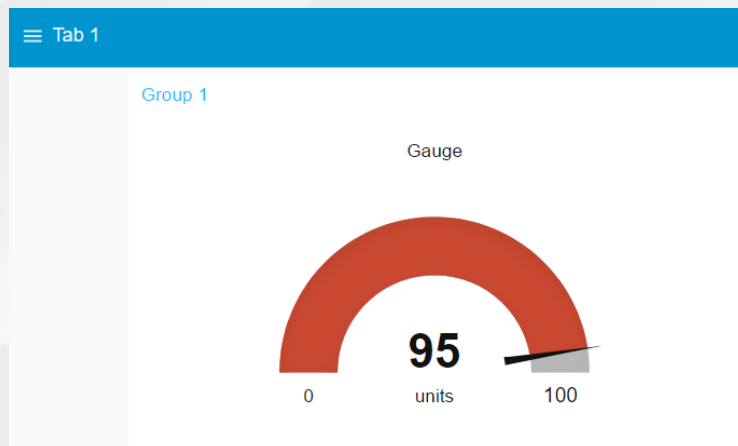
Step3.顯示成功

使用node-red讀取opendata

使用node-red讀取opendata

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使用node-red讀取opendata

URL->http://opendata2.epa.gov.tw/AQI.json
RETURN->A parsed JSON object
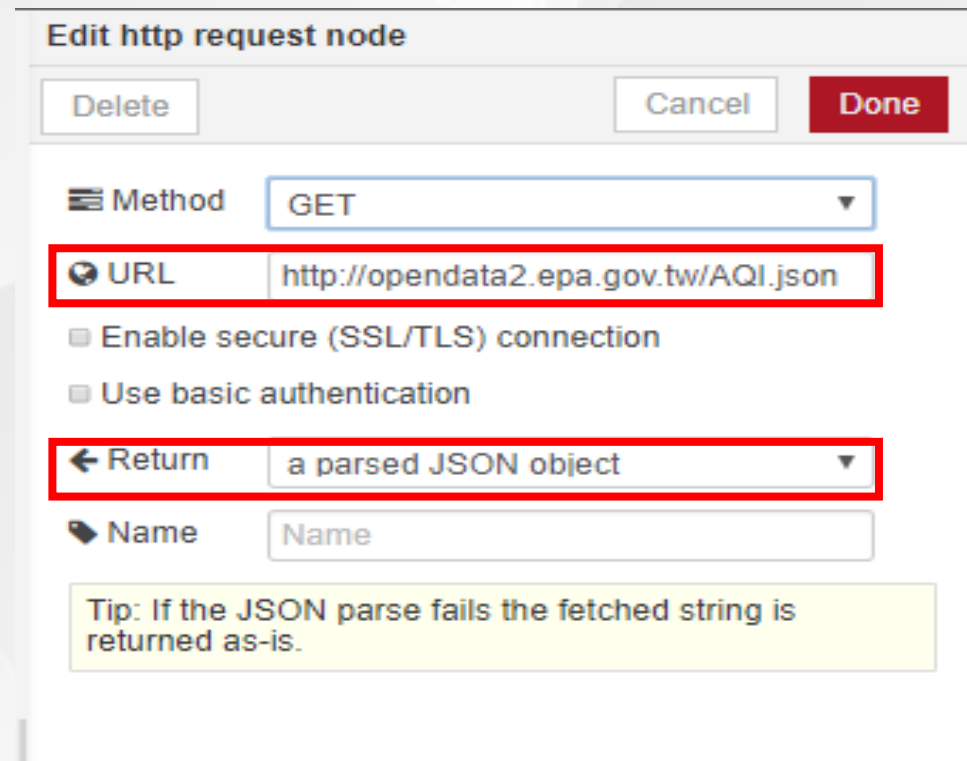
使用node-red讀取opendata
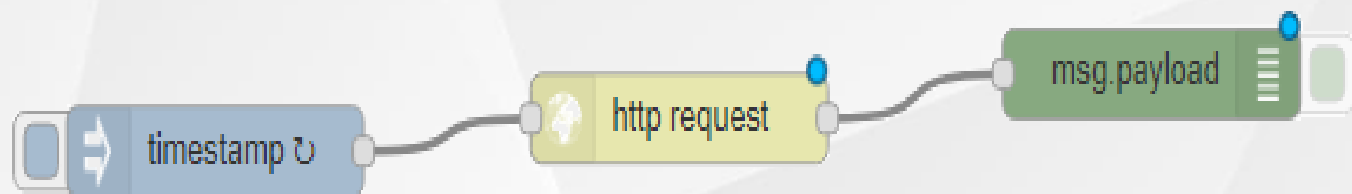
info | **debug** | dashboar✕

2017/7/12 下午6:48:50 node:
1298c6a4.af0c49
msg.payload : array[76]
▼array[76]
▼[0 … 9]
  ▶0: object
  ▶1: object
  ▶2: object
  ▼3: object
    SiteName: "土城"
    County: "新北市"
    PSI: "35"
    MajorPollutant: ""
    Status: "良好"
    SO2: "2.7"
    CO: "0.93"
    O3: "9.3"
    PM10: "34"
    PM2.5: "16"
    NO2: "41"
    WindSpeed: "1"
    WindDirec: "189"
    FPMI: "2"
    NOx: "52.43"
    NO: "11.26"
    PublishTime: "2017-07-12
    18:00"

timestamp ↻

http request

msg.payload

D.C
Design. Create

使用node-red讀取opendata
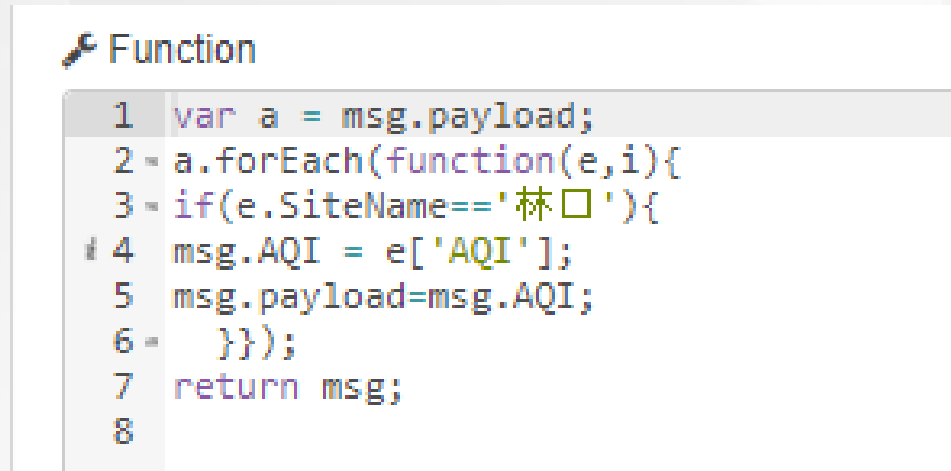
Function->輸入
var a = msg.payload;
a.forEach(function(e,i){
if(e.SiteName=='林口'){
msg.AQI = e['AQI'];
msg.payload=msg.AQI;
}});
return msg;

Debug->output設定只顯示AQI

使用node-red讀取opendata

使用E-mail通知

使用E-mail通知

To->xxx@gmail.com

Your gmail帳號密碼
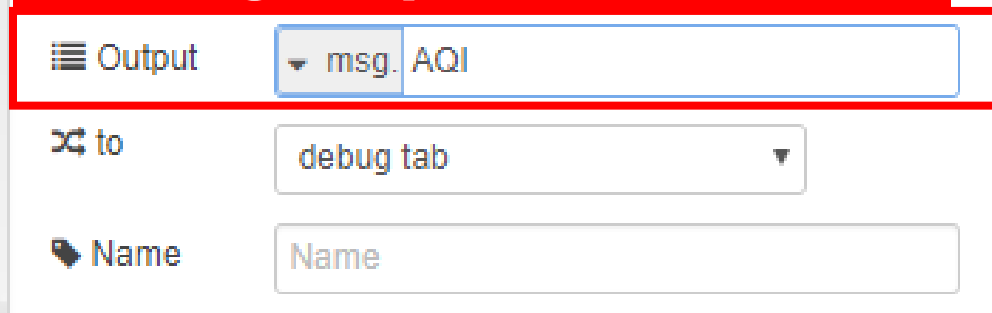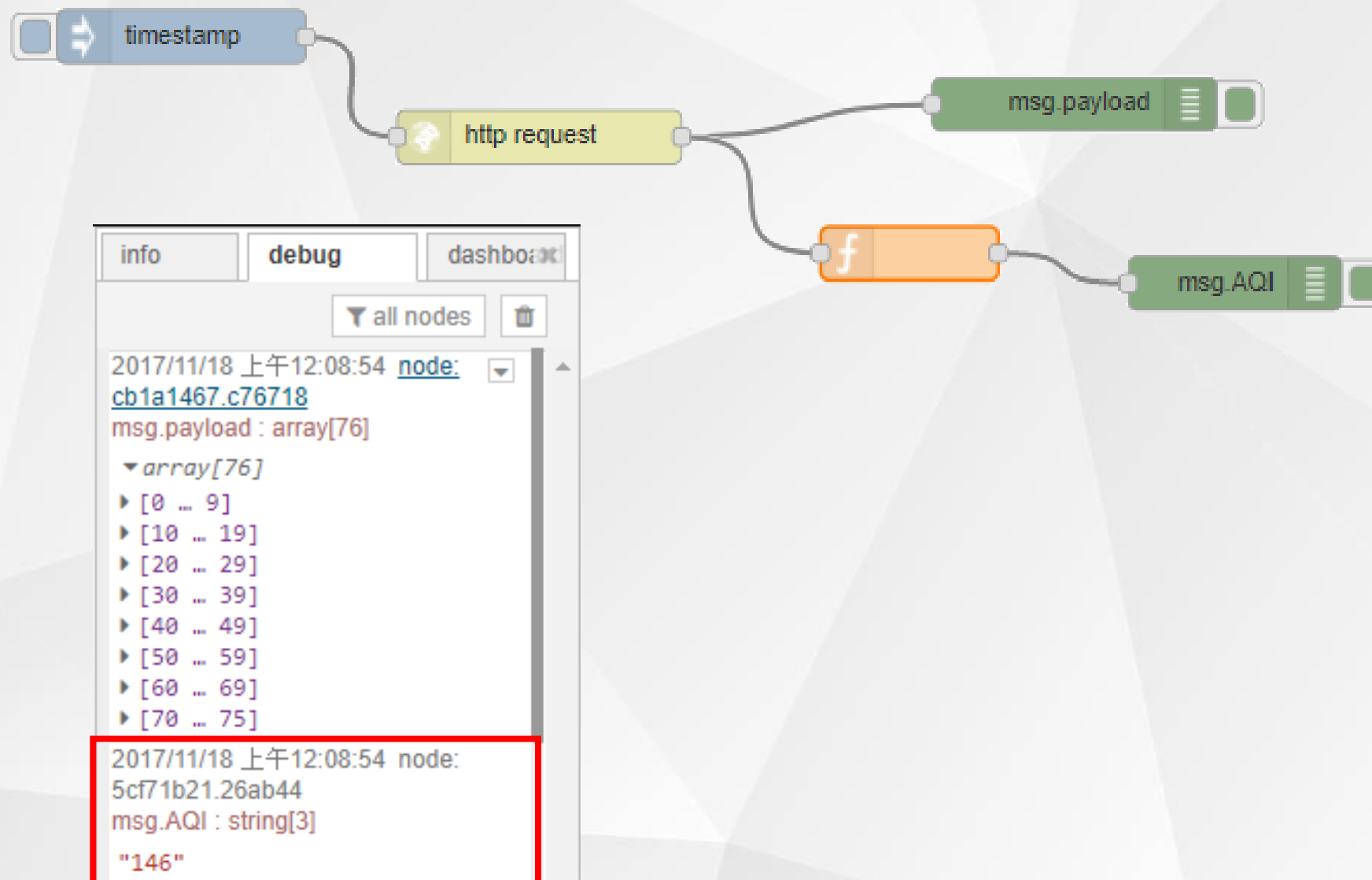
使用E-mail通知
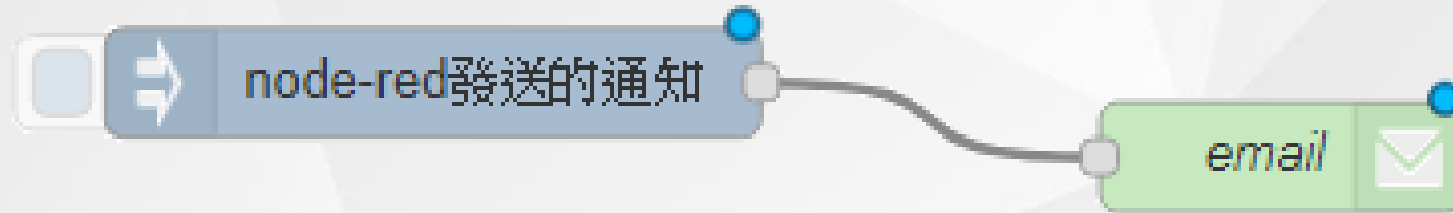
使用E-mail通知

使用E-mail通知

Edit function node

Delete | Cancel | Done

🏷 Name [Name]

🔧 Function
```
1  msg.to = 'xxxx@gmail.com';
2  msg.cc = 'xxxx@gmail.com';
3  msg.topic = '信件主旨';
4  msg.payload = '信件內容'
5  return msg;
```

msg.to 是收件人
msg.cc 是副本
msg.topic是主旨
msg.payload 是內容

D.C
Design. Create