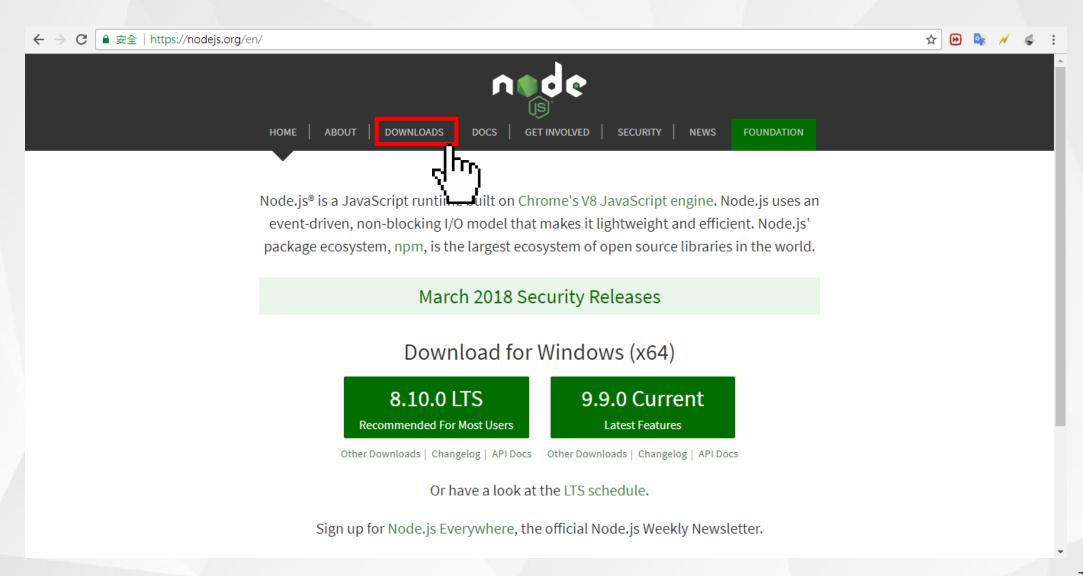
Node-red 安裝

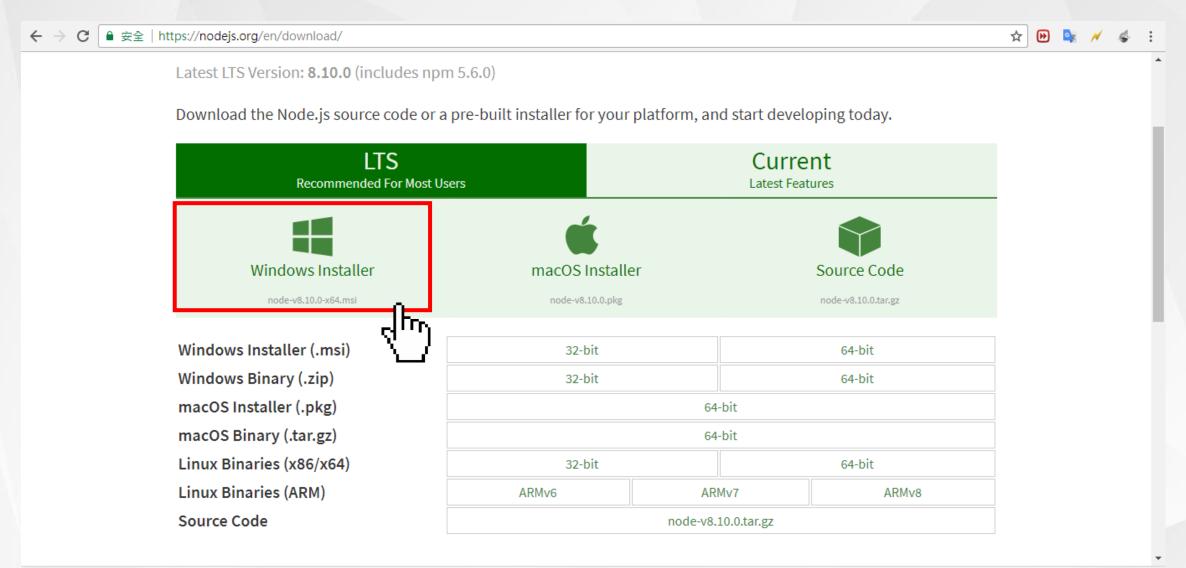


Node-red 安裝 (nodejs 下載)



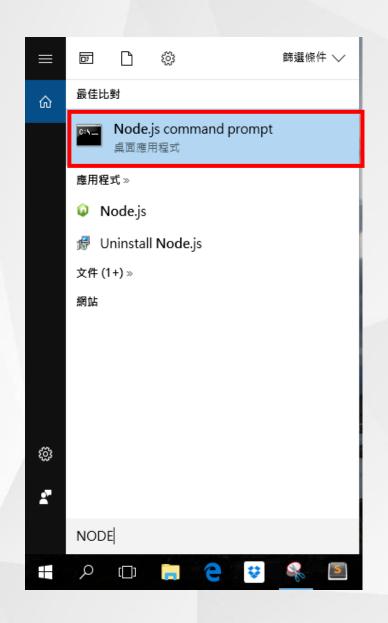


Node-red 安裝 (nodejs 下載)





Node-red 安裝(安裝步驟)



Step 1. npm install -g node-red

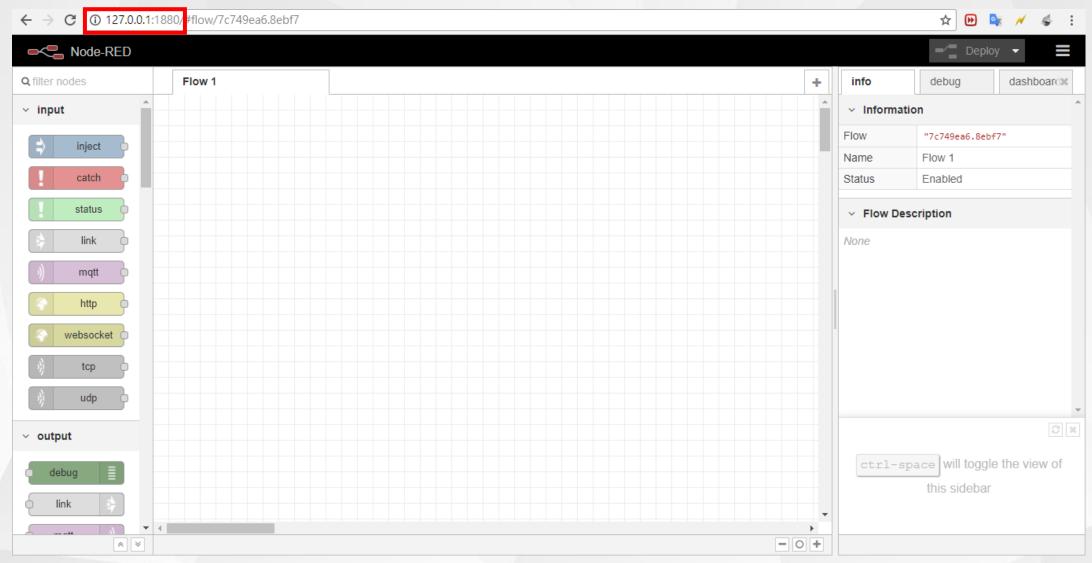
Step 2. npm i node-red-dashboard

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/



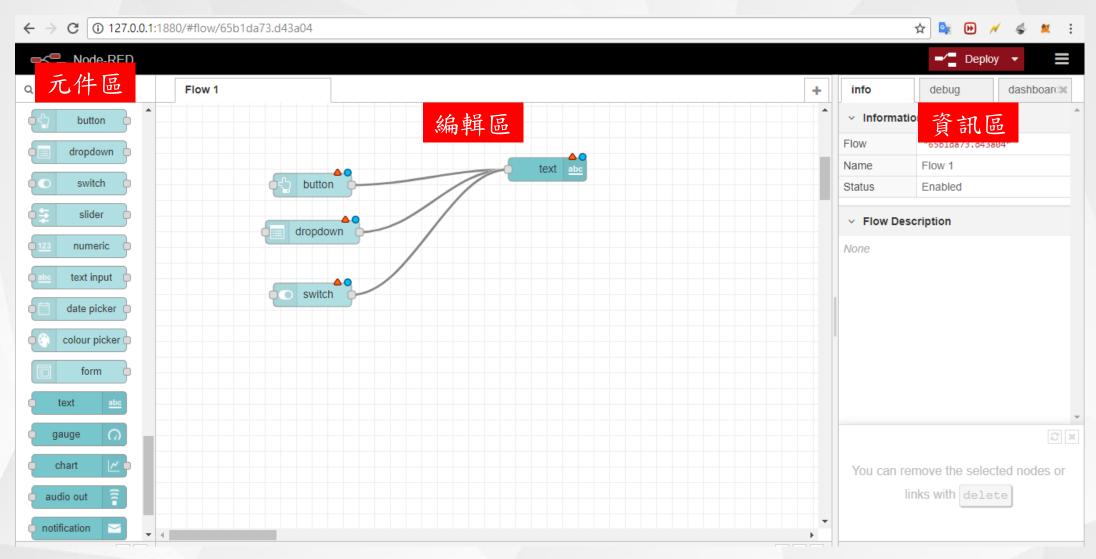
Node-red 安裝(開啟瀏覽器)



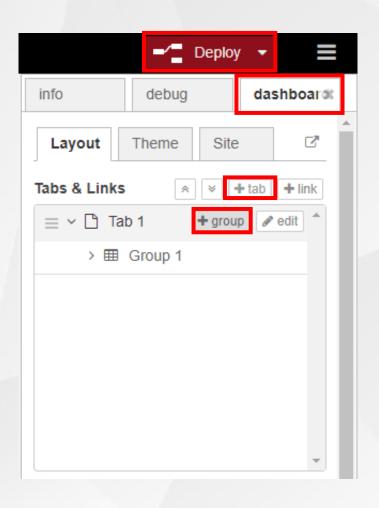




Node-red 基本操作(介面介紹)

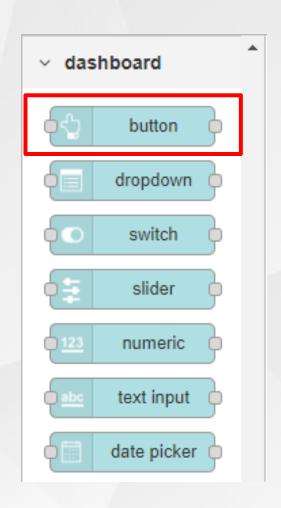


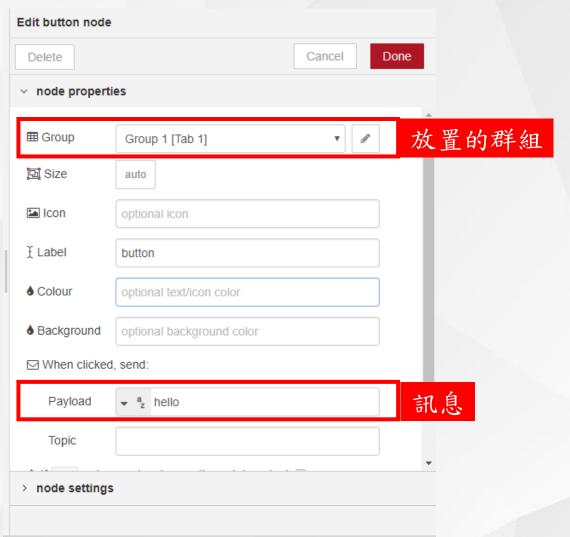




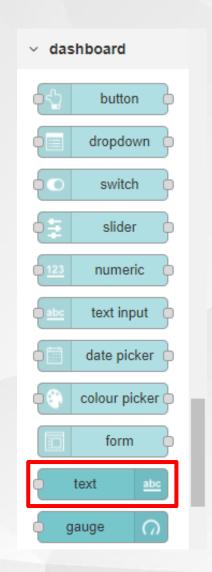
- 1.至dashboard->Layout
- 2.按+tab在Tab1處會浮出+group
- 3. 增加完後,按Deploy

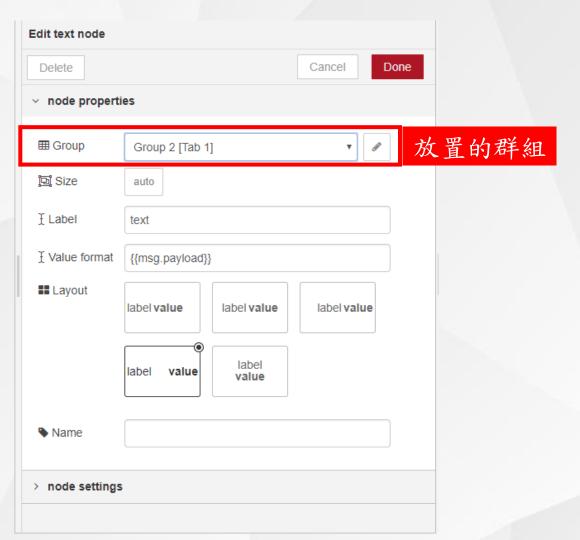




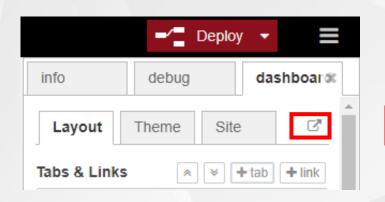




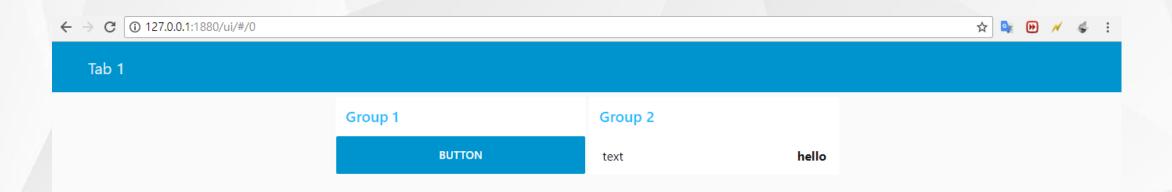








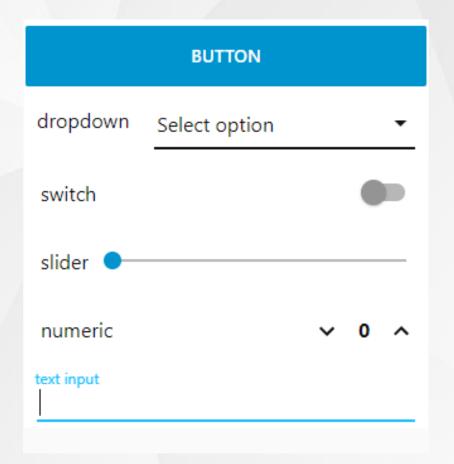
點選紅色框框區域,將出現以下介面





Node-red 基本操作(input元件)

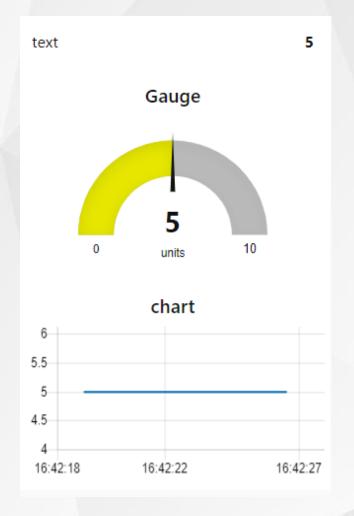






Node-red 基本操作(output元件)







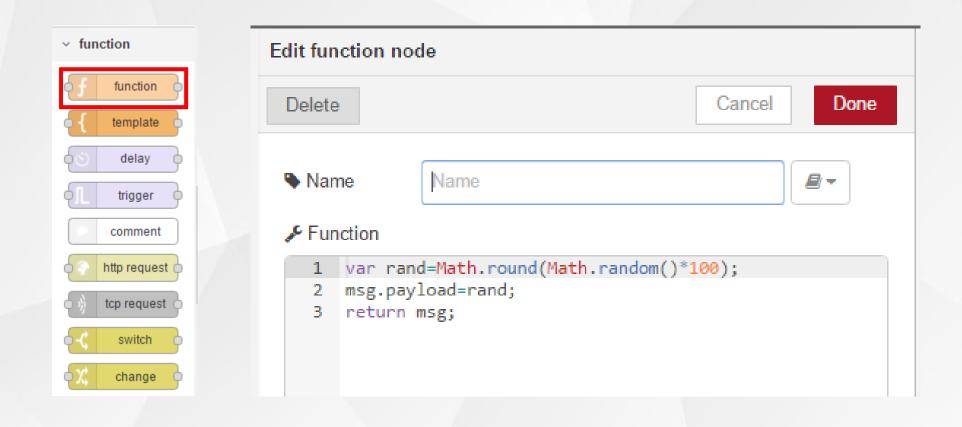
Inject:可輸入字串、數字的訊息或設置時間反覆執行



| Delete | | Cancel |
|------------------|-------------------------------------|--------|
| ☑ Payload | ▼ timestamp | |
| ≡ Topic | | |
| C Repeat | interval | ▼ |
| | every 1 \$\frac{1}{\circ}\$ seconds | v |
| | ☐ Inject once at start? | |
| Name Name | Name | |

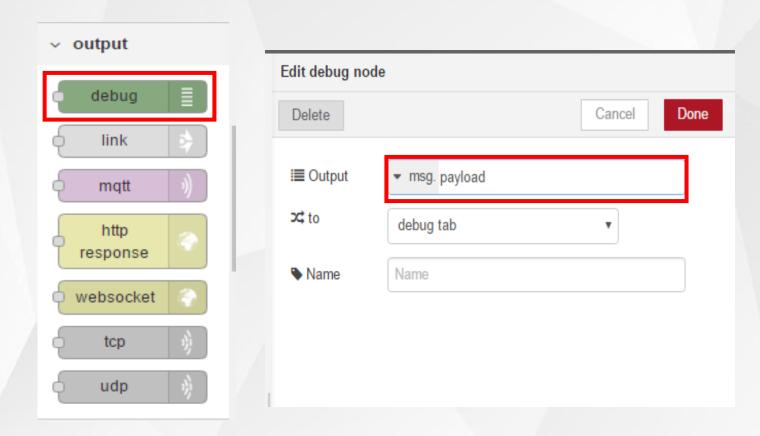


Function:撰寫程式做訊息或資料處理





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

| info | debug | 9 | dashboar# |
|---|-------|-------|-----------|
| | | | T Û |
| 2017/7/13 下 ² 36830acf.bd5 msg.payload : 62 | 5d6 | node: | |
| 2017/7/13 下台 36830acf.bd5 msg.payload: | 5d6 | node: | |
| 2017/7/13 下 ² 36830acf.bd5 msg.payload : 30 | 5d6 | node: | |





Step3.顯示成功











Design. Create









 □ opendata2.epa.gov.tw// ×

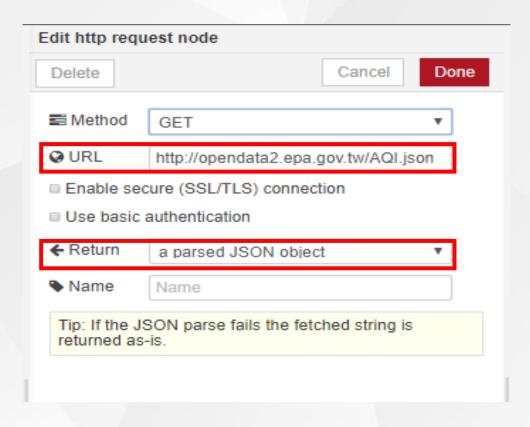
 ← → C □ opendata2.epa.gov.tw/AQl.json

[{"SiteName":"基隆","County":"基隆市","AQI":"30","Pollutant":"","Status":"良 女子","S02":"3.4","C0":"0.21","C0 8hr":"0.2","03":"39","03 8hr":"27","PM10":"15","PM2.5":"13","N02":"2.6","N0x":"3.8","N0":"1.2","WindSpeed":"1.4","WindDirec":"80","PublishTime":"2018-06-18 13:00","PM2.5 AVG":"9","PM10 AVG":"17","Latitude":"25.129167","Longitude":"121.760056"},{"SiteName":"沙止","County":"新北市","AQI":"26","Pollutant":"","Status":"良 ₹7","S02":"7.9","C0":"0.25","C0 8hr":"0.3","03":"35","03 8hr":"28","PM10":"13","PM2.5":"4","N02":"10","N0x":"15","N0":"4.5","WindDirec":"27","WindDirec":"27","PublishTime":"2018-06-18 13:00","PM2.5 AVG":"3","PM10 AVG":"16","Latitude":"25.067131","Longitude":"121.6423"},{"SiteName":"萬里","County":"新北市","AQI":"43","Pollutant":"","Status":"良 读手","S02":"3.8","C0":"0.18","C0 8hr":"0.2","03":"43","03 8hr":"28","PM10":"37","PM2.5":"15","N02":"2.5","N0x":"4.1","N0":"1.5","WindSpeed":"1.5","WindDirec":"42","PublishTime":"2018-06-18 13:00","PM2.5 AVG":"13","PM10 AVG":"42","Latitude":"25.179667","Longitude":"121.689881"},{"SiteName":"新店","County":"新北市","AQI":"34","Pollutant":"","Status":"良 ₹7"."S02":"2.4"."C0":"0.26","C0 8hr":"0.3","03":"38","03 8hr":"28","PM10":"9","PM2.5":"13","N02":"8.9","N0x":"11","N0":"2","WindSpeed":"2.9","WindDirec":"135","PublishTime":"2018-06-18 13:00","PM2.5 AVG":"11","PM10 AVG":"10","Latitude":"24.977222","Longitude":"121.537778"},{"SiteName":"土城","County":"新北市","AQI":"37","Pollutant":"","Status":"良 女子","S02":"4.1","C0":"0.27","C0 8hr":"0.3","03":"39","03 8hr":"28","PM10":"20","PM2.5":"15","N02":"10","N0x":"13","N0":"3","WindSpeed":"2.5","WindDirec":"139","PublishTime":"2018-06-18 13:00","PM2.5 AVG":"11","PM10 AVG":"21","Latitude":"24.982528","Longitude":"121.451861"},{"SiteName":"板橋","County":"新北市","AQI":"24","Pollutant":"","Status":"良 好","S02":"3.7","C0":"0.37","C0 8hr":"0.3","03":"36","03 8hr":"26","PM10":"24","PM2.5":"8","N02":"15","N0x":"18","N0":"3.1","WindSpeed":"3","WindDirec":"155","PublishTime":"2018-06-18 13:00","PM2.5 AVG":"7","PM10 AVG":"25","Latitude":"25.012972","Longitude":"121.458667"},{"SiteName":"新莊","County":"新北市","AQI":"32","Pollutant":"","Status":"良 女子","S02":"4","C0":"0.22","C0 8hr":"0.3","03":"47","03 8hr":"30","PM10":"21","PM2.5":"12","N02":"8.2","N0x":"8.2","N0":"0","WindSpeed":"3.9","WindDirec":"90","PublishTime":"2018-06-18 13:00","PM2.5 AVG":"10","PM10 AVG":"18","Latitude":"25.037972","Longitude":"121.4325"},{"SiteName":"狭寮","County":"新北市","AQI":"47","Pollutant":"","Status":"良 好","S02":"3.1","C0":"0.3","C0 8hr":"0.3","03":"27","03 8hr":"20","PM10":"20","PM2.5":"14","N02":"7.8","N0x":"12","N0":"3.7","WindSpeed":"3.6","WindDirec":"93","PublishTime":"2018-06-18 13:00","PM2.5 AVG":"14","PM10 AVG":"23","Latitude":"25.06895","Longitude":"121.481028"},{"SiteName":"林口","County":"新北市","AQI":"34","Pollutant":"","Status":"良 校子","S02":"2.6","C0":"0.18","C0 8hr":"0.3","03":"51","03 8hr":"30","PM10":"30","PM2.5":"7","N02":"4.9","N0x":"5.9","N0":"1.1","WindSpeed":"2.5","WindDirec":"39","PublishTime":"2018-06-18 13:00","PM2.5 AVG":"10","PM10 AVG":"15","Latitude":"25.077197","Longitude":"121.376869"},{"SiteName":"淡水","County":"新北市","AQI":"35","Pollutant":"","Status":"良 续手","S02":"2","C0":"0.18","C0 8hr":"0.2","03":"33","03 8hr":"22","PM10":"29","PM2.5":"6","N02":"2.9","N0x":"3.2","N0":"0.3","WindSpeed":"","WindDirec":"","PublishTime":"2018-06-18 13:00","PM2.5 AVG":"11","PM10 AVG":"29","Latitude":"25.1645","Longitude":"121.449239"},{"SiteName":"十林","County":"喜北市","AOI":"38","Pollutant":"","Status":"良 读于","S02":"2.4","C0":"0.18","C0 8hr":"0.2","03":"40","03 8hr":"25","PM10":"20","PM2.5":"20","N02":"5.7","N0x":"6.9","N0":"1.2","WindSpeed":"1","WindDirec":"139","PublishTime":"2018-06-18 13:00","PM2.5 AVG":"12","PM10 AVG":"22","Latitude":"25.105417","Longitude":"121.515389"},{"SiteName":"中山","County":"喜北市","AQI":"31","Pollutant":"","Status":"良 好","S02":"3.4","C0":"0.27","C0 8hr":"0.3","03":"26","03 8hr":"19","PM10":"9","PM2.5":"2","N02":"11","N0x":"16","N0":"5.3","WindSpeed":"2.9","WindDirec":"125","PublishTime":"2018-06-18 13:00","PM2.5_AVG":"10","PM10_AVG":"20","Latitude":"25.062361","Longitude":"121.526528"},{"SiteName":"萬華","County":"臺北帝","AQI":"32","Pollutant":"","Status":"良 续子","S02":"4.8","C0":"0.25","C0 8hr":"0.3","03":"28","03 8hr":"22","PM10":"27","PM2.5":"13","N02":"14","N0x":"19","N0":"5.5","WindSpeed":"2.6","WindDirec":"91","PublishTime":"2018-06-18 13:00","PM2.5 AVG":"10","PM10 AVG":"20","Latitude":"25.046503","Longitude":"121.507972"},{"SiteName":"古亭","County":"喜北市","A0I":"26","Pollutant":"","Status":"良 读于","S02":"4.7","C0":"0.24","C0 8hr":"0.2","03":"40","03 8hr":"27","PM10":"22","PM2.5":"11","N02":"10","N0x":"13","N0":"3.1","WindSpeed":"3.4","WindDirec":"92","PublishTime":"2018-06-18 13:00","PM2.5_AVG":"8","PM10_AVG":"22","Latitude":"25.020608","Longitude":"121.529556"},{"SiteName":"松山","County":"臺北市","AQI":"32","Pollutant":"","Status":"良 女子","S02":"10","C0":"0.23","C0 8hr":"0.2","03":"30","03 8hr":"27","PM10":"34","PM2.5":"13","N02":"12","N0x":"17","N0":"5","WindSpeed":"2.2","WindDirec":"45","PublishTime":"2018-06-18 13:00","PM2.5 AVG":"10","PM10 AVG":"30","Latitude":"25.05","Longitude":"121.578611"},{"SiteName":"大同","County":"臺北市","A0I":"43","Pollutant":"","Status":"良 好","S02":"3.3","C0":"0.86","C0_8hr":"0.7","03":"-","03_8hr":"","PM10":"33","PM2.5":"12","N02":"23","N0x":"52","N0":"29","WindSpeed":"","WindDirec":"","PublishTime":"2018-06-18 13:00","PM2.5 AVG":"13","PM10 AVG":"31","Latitude":"25.0632","Longitude":"121.513311"},{"SiteName":"桃園","County":"桃園市","AQI":"35","Pollutant":"","Status":"良 好","S02":"5.1","C0":"0.37","C0 8hr":"0.5","O3":"45","O3 8hr":"28","PM10":"39","PM2.5":"17","N02":"8.4","N0x":"9.6","N0":"1.2","WindSpeed":"2.2","WindDirec":"62","PublishTime":"2018-06-18 13:00","PM2.5 AVG":"11","PM10_AVG":"28","Latitude":"24.994789","Longitude":"121.319964"},{"SiteName":"大園","County":"桃園市","AQI":"44","Pollutant":"","Status":"良 读手","S02":"3","C0":"0.23","C0 8hr":"0.3","03":"51","03 8hr":"28","PM10":"30","PM2.5":"18","N02":"6.9","N0x":"7.9","N0":"1.1","WindSpeed":"4","WindDirec":"14","PublishTime":"2018-06-18 13:00","PM2.5 AVG":"14","PM10 AVG":"38","Latitude":"25.060344","Longitude":"121.201811"},{"SiteName":"觀音","County":"桃園市","AQI":"68","Pollutant":"細懸浮微粒","Status":"普 通","SO2":"4.6","CO":"0.25","CO 8hr":"0.4","O3":"46","O3 8hr":"23","PM10":"54","PM2.5":"25","NO2":"7.3","NOx":"7.7","NO":"0.4","WindSpeed":"2.2","WindDirec":"52","PublishTime":"2018-06-

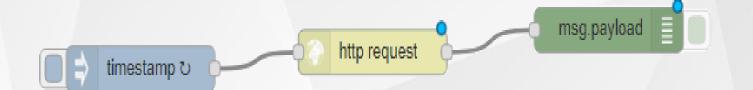


URL->http://opendata2.epa.gov.tw/AQI.json RETURN->A parsed JSON object

| v fur | ection | |
|----------------------------|--------------|---|
| (f | function | |
| [| template | |
| (8) | delay | |
| $\left(\mathbb{L}\right)$ | trigger | |
| P | comment | _ |
| • | http request | |
| (·) | tcp request | |
| - | switch | |
| Φ χ; | change | |











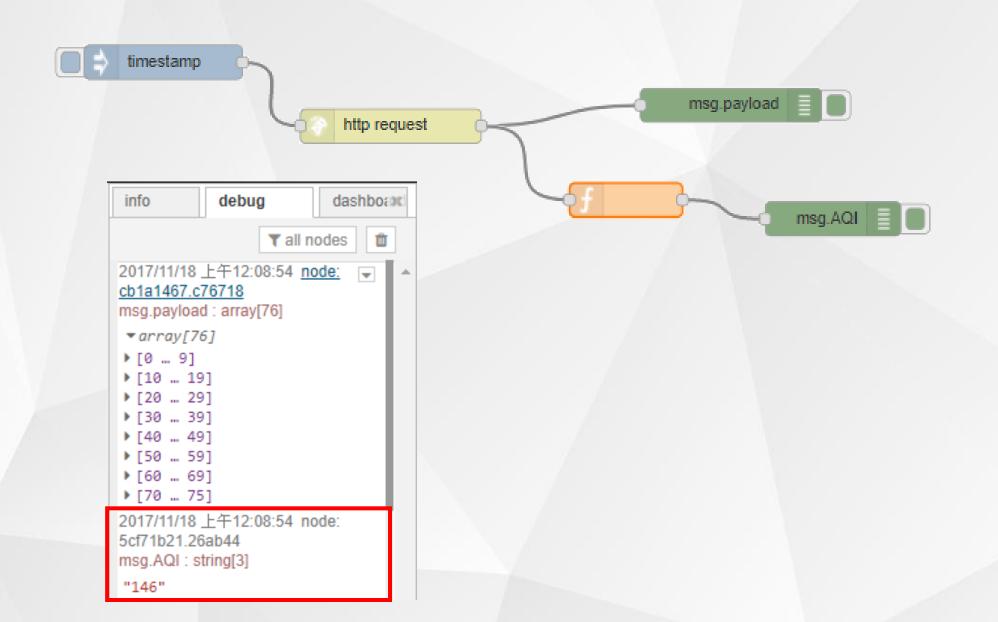


```
Function

1  var a = msg.payload;
2 = a.forEach(function(e,i){
3 = if(e.SiteName=='林□'){
4  msg.AQI = e['AQI'];
5  msg.payload=msg.AQI;
6 = }});
7  return msg;
8
```

| Function->輸入 |
|-------------------------------------|
| var a = msg.payload; |
| <pre>a.forEach(function(e,i){</pre> |
| if(e.SiteName=='林口'){ |
| msg.AQI = e['AQI']; |
| msg.payload=msg.AQI; |
| <pre>}});</pre> |
| return msg; |

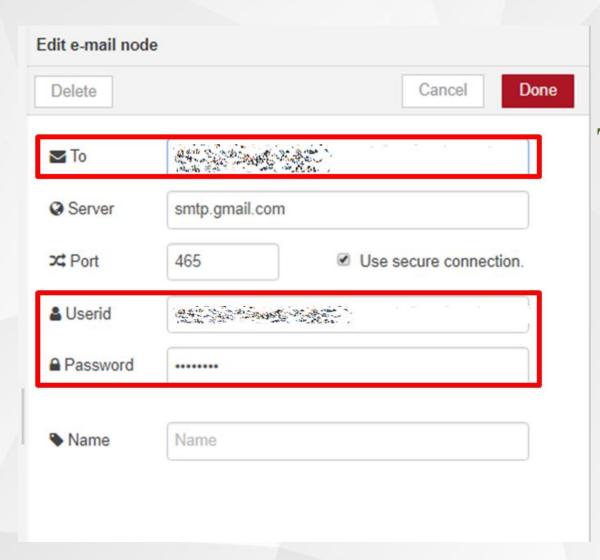












To->xxx@gmail.com

Your gmail帳號密碼



低安全性應用程式

2017年7月18日 星期二下午9:38 (台灣時間) 台灣台北市中山區*

對這個活動沒有印象嗎?

如果您最近透過非 Google 應用程式存取 Google 服務 (例如 Gmail) 時,並未收到錯誤訊息,那麼可能已有其他人取得您的密碼。

確保您的帳戶安全

嘗試登入者是您本人嗎?

您所使用的應用程式有已知的安全性問題或版本過舊,因此 Google 將繼續禁止該應用程式登入帳戶。如要繼續使用這個應用程式,您可以 啟用低安全性應用程式的存取權限 但這樣會導致帳戶安全性降低。

← 低安全性應用程式

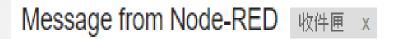
由於部分應用程式和裝置採用安全性較低的登入技術,您的帳戶會因此出現安全漏洞。建議您**取消**這些應用程式的存取權限;如果您瞭解有風險,但還是要使用這些應用程式,則可以**開放**存取權限。 瞭解詳情

[允許安全性較低的應用程式] 設定處於啟用狀態









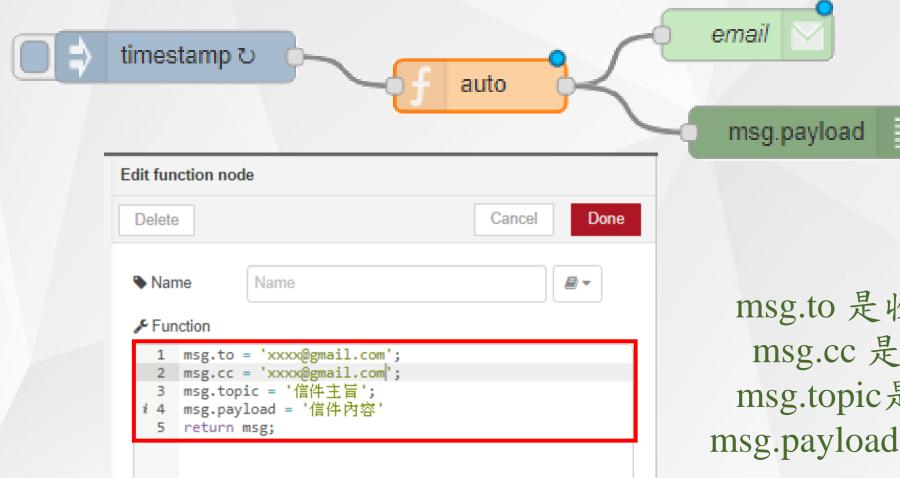




寄給 我 🖸

node-red發送的通知





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

