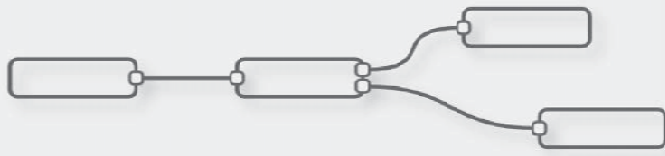


05-2 Node-RED

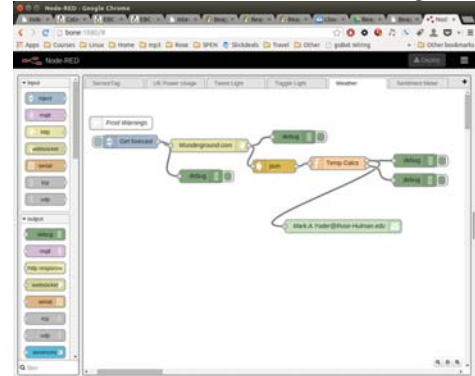
Node-RED

A visual tool for wiring the Internet of Things



Node-RED

- Node-RED is a tool for wiring together hardware devices, APIs and online services in new and interesting ways.



Installing node-RED

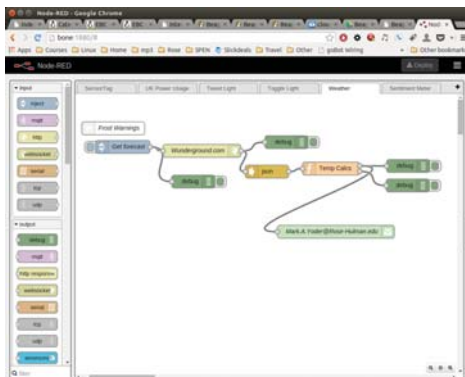
```
bone$ cd # Change to home directory
bone$ git clone https://github.com/node-red/node-red.git
bone$ cd node-red/
bone$ npm install --production
# almost 6 minutes
bone$ cd nodes
bone$ git clone https://github.com/node-red/node-red-nodes.git
# 2 seconds
```

Running node-RED

```
bone$ cd ~/node-red
bone$ node red.js
Welcome to Node-RED
=====
18 Aug 16:31:43 - [red] Version: 0.8.1.git
18 Aug 16:31:43 - [red] Loading palette nodes
18 Aug 16:31:49 - [26-rawserial.js] Info : only really needed
for Windows boxes without serialport npm module installed.
18 Aug 16:31:56 - [red] Failed to register 44 node types
18 Aug 16:31:56 - [red] Run with -v for details
18 Aug 16:31:56 - [red] Server now running at http://127.0.0.1:1880/
18 Aug 16:31:56 - [red] Loading flows : flows_yoder-debian-
bone.json
```

Accessing node-RED

- Point your browser to **192.168.7.2:1880**



Node-RED Demo

- See cookbook for installing more nodes.

```
bone$ apt-get install libbluetooth-dev
bone$ npm install -g sensortag
npm install -g badwords ntwitter oauth sentiment wordpos xml2js firmata
npm install -g fs.notify serialport feedparser pushbullet irc simple-xmpp
npm install -g redis mongodb node-stringprep
npm install -g imap js2xmlparser nodemailer arduino-firmata heatmiser wemo
npm install -g stomp-client wake_on_lan node-dweetio komponist nma growl
npm install -g node-prowl pusher pushover-notifications snapchat twilio aws-sdk
npm install -g node-hue-api level pusher-client mysql sqlite3 suncalc
npm install -g dynamodb-data-types node-postgres-named
```