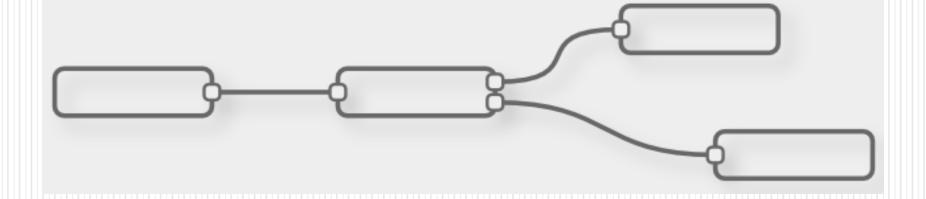
05-2 Node-RED

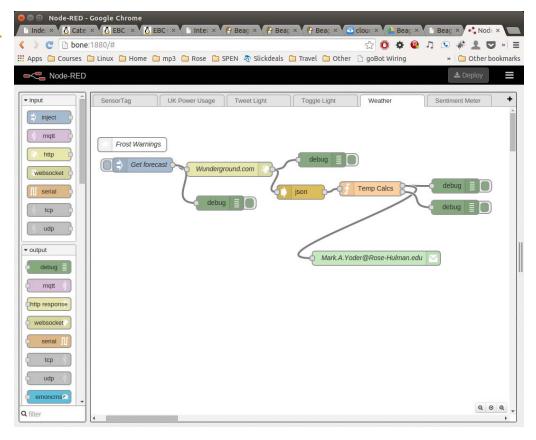
Node-RED

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.
- http://nodered.org/



Installing node-RED

```
bone$ npm install -g node-red

# almost 10 minutes

bone$ cd node-red

bone$ npm install node-red-node-beaglebone
# 2 seconds
```

http://nodered.org/docs/hardware/beagleboneblack.html
http://nodered.org/docs/getting-started/running.html

Running node-RED

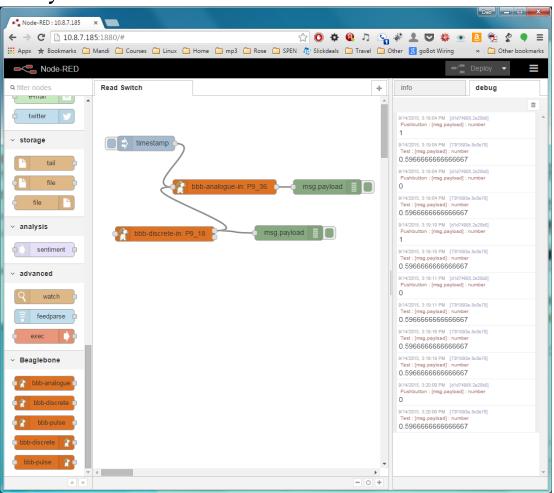
```
bone$ node-red-pi --max-old-space-size=128
Welcome to Node-RED
============
18 Aug 16:31:43 - [red] Version: 0.8.1.git
18 Aug 16:31:43 - [red] Loading palette nodes
18 Aug 16:31:49 - [26-rawserial.js] Info : only really needed
for Windows boxes without serialport npm module installed.
18 Aug 16:31:56 - -----
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 - -----
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_ebian-
bone.json
```

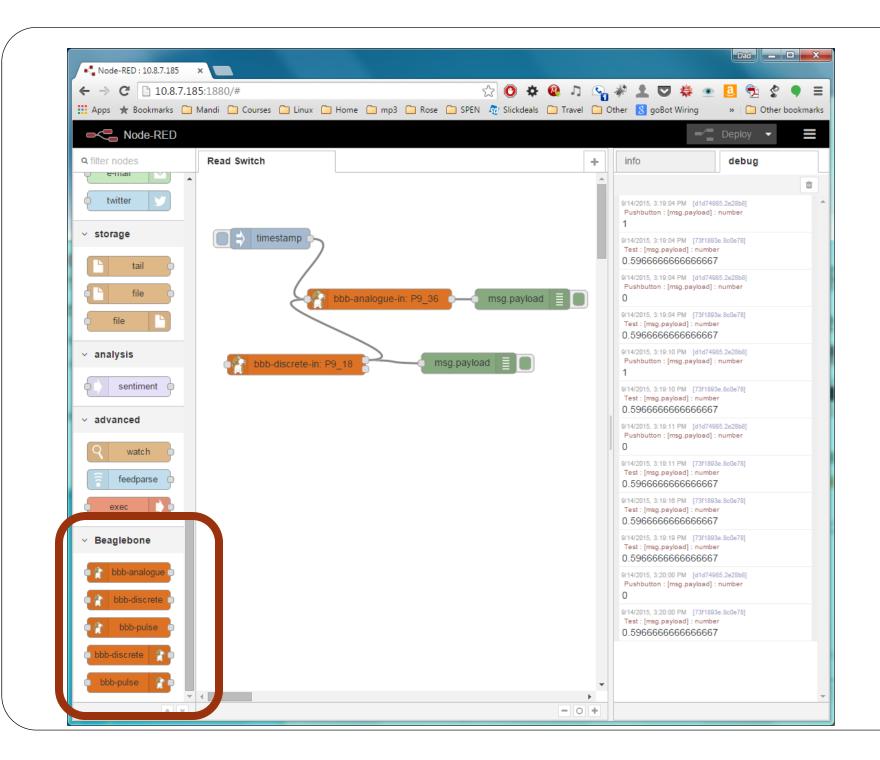
Note Port Number

http://nodered.org/docs/hardware/raspberrypi.html#starting-node-red

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

bone$ npm install -g badwords ntwitter oauth sentiment wordpos xml2js firmata

bone$ npm install -g fs.notify serialport feedparser pushbullet irc simple-xmpp

bone$ npm install -g redis mongodb node-stringprep

bone$ npm install -g imap js2xmlparser nodemailer arduino-firmata heatmiser wemo

bone$ npm install -g stomp-client wake_on_lan node-dweetio komponist nma growl

bone$ npm install -g node-prowl pusher pushover-notifications snapchat twilio

bone$ npm install -g node-hue-api level pusher-client mysql sqlite3 suncalc

bone$ npm install -g dynamodb-data-types node-postgres-named
```