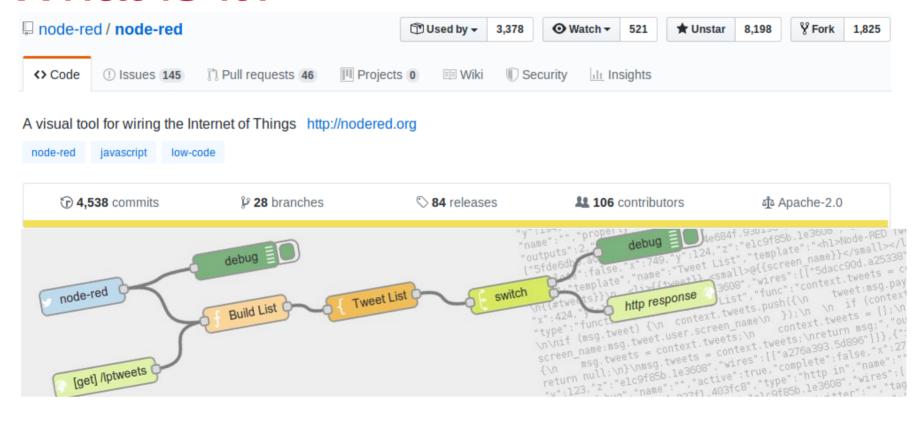
Node-RED: graphical programming fred-for-all

Martin Berka

What is it?



Demo

```
sudo npm install -g --unsafe-perm node-red
node-red
```

127.0.0.1:1880/#

From the sidebar: connect http input (path: hello) \rightarrow function block (add msg.payload = '<h1>Hello Node!<h>'; before return msg;) \rightarrow http output

Click Deploy to launch, then visit http://127.0.0.1:1880/hello

Demo – next steps

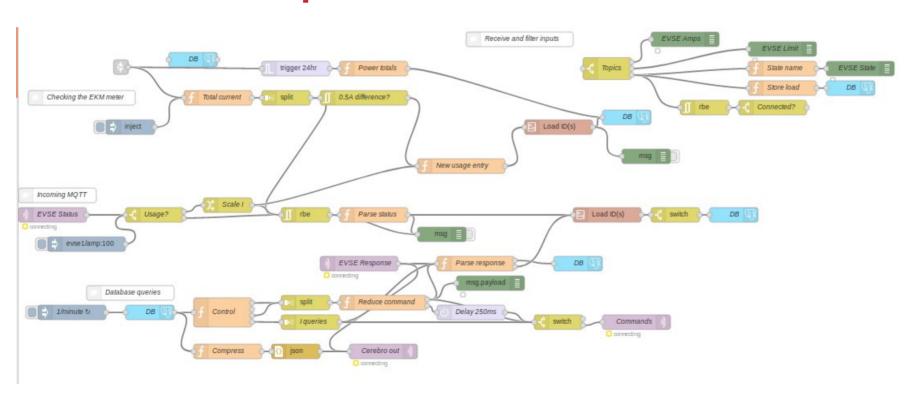
- Add MQTT subscribe to a topic on test.mosquitto.org port 1883.
- Save any message that comes in: flow.set('mqtt', `\${msg.payload} from \${msg.topic}`);
- Use flow.get('mqtt') to retrieve it in the function block that produces the content for /hello
- Too few messages coming in? Spice it up by adding a /send http path that sends a message to test/node, and see the same message reflected when you reload /hello.

Example: https://gist.github.com/MBerka/36a08dc2146847fe17cbb9bb843dc8d2

When to start: Need a...

- Minimal, quickly customizable API server on any Node system?
- Dashboard that lets you control your Raspberry Pi from your phone on the same network?
- Demo that emails you when a user sends five tweets within five minutes of a certain file on the computer changing and turns on an IoT light?
- Break from looking at text?

When to stop:



Resources

Node-RED front page, https://nodered.org/

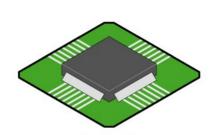
Contribute: github.com/node-red/node-red

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Run locally

- Getting started
- Docker



On a device

- Raspberry Pi
- BeagleBone Black
- Interacting with Arduino
- Android



In the cloud

- IBM Cloud
- SenseTecnic FRED
- Amazon Web Services
- Microsoft Azure