



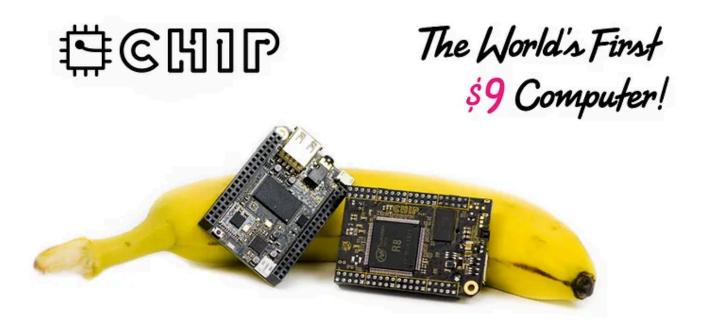
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So I recently got a neat little <u>C.H.I.P. device</u> which is a tiny but surprisingly powerful machine running a flavour of Debian and thought I'd put it to work running a MQTT broker for all my devices at home, so here's the instructions to do just that.





#### **Add the Mosquitto Debian repository**

```
wget http://repo.mosquitto.org/debian/mosquitto-repo.gpg.key
sudo apt-key add mosquitto-repo.gpg.key
cd /etc/apt/sources.list.d/
sudo wget http://repo.mosquitto.org/debian/mosquitto-jessie.list
sudo apt-get update
```

#### **Install Mosquitto and its command line clients**

```
sudo apt-get install mosquitto
sudo apt-get install mosquitto-clients
```

### **Check it's running**

sudo service mosquitto status

### What you want to see is something like

```
Jan 14 23:56:42 chip systemd[1]: Started LSB: mosquitto MQTT v3.1 message broker.
```

To start, stop and restart the broker in future, use the commands

```
sudo service mosquitto start
sudo service mosquitto stop
sudo service mosquitto restart
```

#### Test that it's working

In your existing terminal, subscribe to the "testtopic" topic

```
mosquitto_sub -h localhost -t "testtopic" -v
```

Then open another terminal and send a message on that topic

```
mosquitto_pub -h localhost -t "testtopic" -m "Testing"
```

If all goes well then should see the message printed to the first terminal

```
chip@chip:~$ mosquitto_sub -h localhost -t "testtopic" -v
testtopic Testing
```

Success! You have a working MQTT broker running on the default port 1883.

#### **Adding Websocket protocol support**

Currently we only have MQTT protocol, so to enable Websockets on port 1884, we need to configure and restart Mosquitto. To do this, start by creating a configuration file in the appropriate location. I've called mine protocols.conf.

```
sudo vi /etc/mosquitto/conf.d/protocols.conf
```

Define the contents like so

```
listener 1883
protocol mqtt
listener 1884
protocol websockets
```

And again, restart with

```
sudo service mosquitto restart
```

#### Be aware

It's worth noting that by default there's no security, so if you wish to make your broker available from the web, you may want to consider locking it down a touch. There's a fair number of options, so I won't be covering them in this post, but see the <u>mosquitto configuration</u> for further information.

Debian Ubuntu Mqtt Mosquitto Chip





## No responses yet





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