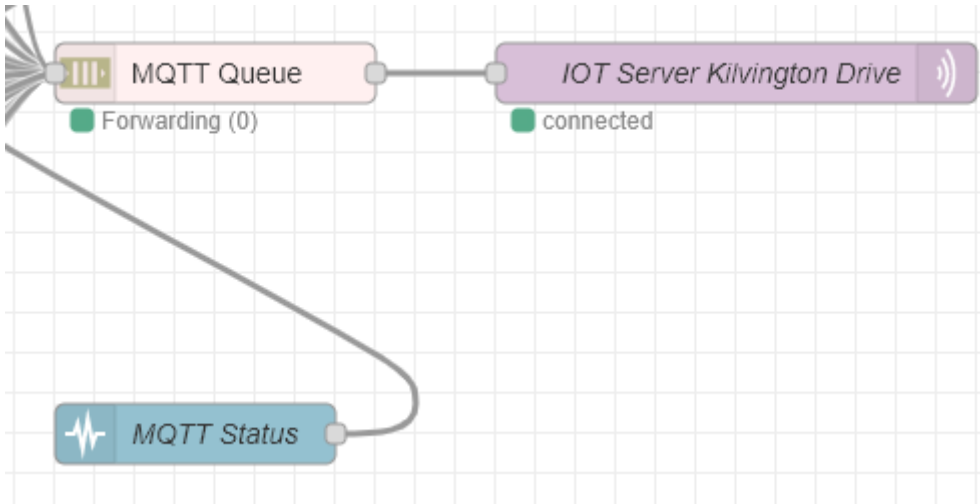# Node-Red Configuration

Node-red allows MQTT messages to be published to the Kilvington

They are typically configured as per the below.

IOT Server Node

The IOT Server Node defines the connection back the the Kilvington Thingsboard server.

When the connection is working it will display the connected message underneatth

The node is configured as per the below

Edit mqtt out node

Delete		Cancel	Done

⚙ **Properties**

🌐 Server   pbr-iot-1.pbr.org.au ⌄ ✎

☰ Topic   v1/devices/me/telemetry

⚙ QoS   2 ⌄   ↻ Retain ⌄

🏷 Name   IOT Server Kilvington Drive

Tip: Leave topic, qos or retain blank if you want to set them via msg properties.

The **Topic** field is the default topic for Thingsboard

Edit mqtt out node > **Edit mqtt-broker node**

Delete		Cancel	Update

⚙ **Properties**

🏷 Name   pbr-iot-1.pbr.org.au

Connection	Security	Messages

🌐 Server   pbr-iot-1.pbr.org.au   Port   8883

☑ Enable secure (SSL/TLS) connection

   TLS Configuration   pbr-iot-1.pbr.org.au ⌄ ✎

🏷 Client ID   Leave blank for auto generated

⏱ Keep alive time (s)   60   ☑ Use clean session

☑ Use legacy MQTT 3.1 support

The **Username** field corresponds with the **Access Token** attribute in the Thingsboard device configuration


Troubleshooting

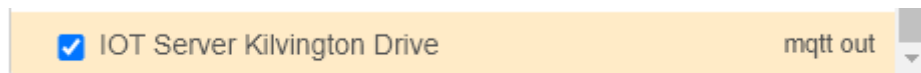In the event that MQTT messages are not being passed to the Thingsboard service from Node-red, check the following:

1) Verify network from connectivity to/from Kilvington Drive to the Unipi location is working.

2) Connect to the the Unipi via SSH and verify that the DNS name specified under the mqtt broker can be resolved.

3) Access Node-red on port 1880 of the Unipi and verify that the **MQTT Queue** node is set to **Forwarding** instead of **Storing.** If storing is being used this would indicate the the **MQTT Status** node is failing a check.
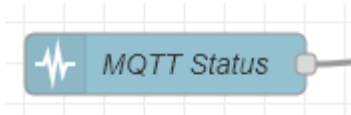
If this is the case, open the node and ensure that the the status of the correct (online) node is being checked.