

## Sprint 2

Date	19 Nov 2022
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Project Name	Hazardous area monitoring for industrial plant powered by IoT

**NODE RED SETUP AND CONNECTIONS:** IBM IOT device is connected to functions (Such as Temperature, Humidity). The output from the python code is displayed as output(msg.payload)

The screenshot shows the Node-RED web interface. The main workspace contains a flow named 'Flow 1'. It starts with an 'IBM IoT' device node (connected). This node branches into two function nodes: 'hum' and 'temp'. The 'hum' node connects to a 'Humidity' output node, and the 'temp' node connects to a 'Temperature' output node. Below this, there are 'Relay On' and 'Relay Off' nodes connected to another 'IBM IoT' device node. At the bottom, a 'get /sensor' node connects to a 'function 1' node, which then connects to an 'http request' node. On the right, the debug console shows the output of the 'function 1' node, displaying a JSON object with 'temp' and 'Humid' values.

The python code random values are published in IBM CLOUD IOT Device

The screenshot shows the IBM Watson IoT Platform dashboard. The 'Browse' tab is selected, and a search for '1234' has been performed. The device with ID 1234 is listed with a status of 'Connected'. The 'Recent Events' tab is selected, showing a table of events. The events are as follows:

Event	Value	Format	Last Received
IoT Sensor	{"temp":83,"Humid":73}	json	a few seconds ago
IoT Sensor	{"temp":86,"Humid":69}	json	a few seconds ago
IoT Sensor	{"temp":98,"Humid":61}		
IoT Sensor	{"temp":100,"Humid":65}		

At the bottom, it indicates '1 Simulation running'.

## NODE RED DASHBOARD OUTPUT:

