

## SPRINT-2

Date	31 OCTOBER 2022
TEAM ID	PNT2022TMID26938
Project Name	IoT Based smart crop Protection system for agriculture
Maximum mark	20 marks

### Create Node Red and Connect to IBM Watson Platform:

The screenshot displays the Node-RED web interface in a browser. The top navigation bar includes tabs for 'Ad-Aware SecureSearch', 'Application Details - IBM Cloud', 'Node-RED : node-red-oiimk-2022-11-10', and 'IBM Watson IoT Platform'. The address bar shows the URL: <https://node-red-oiimk-2022-11-10.eu-gb.mybluemix.net/red/#flow/e9a091c8255df07c>.

The main workspace, titled 'Flow 1', contains the following nodes and connections:

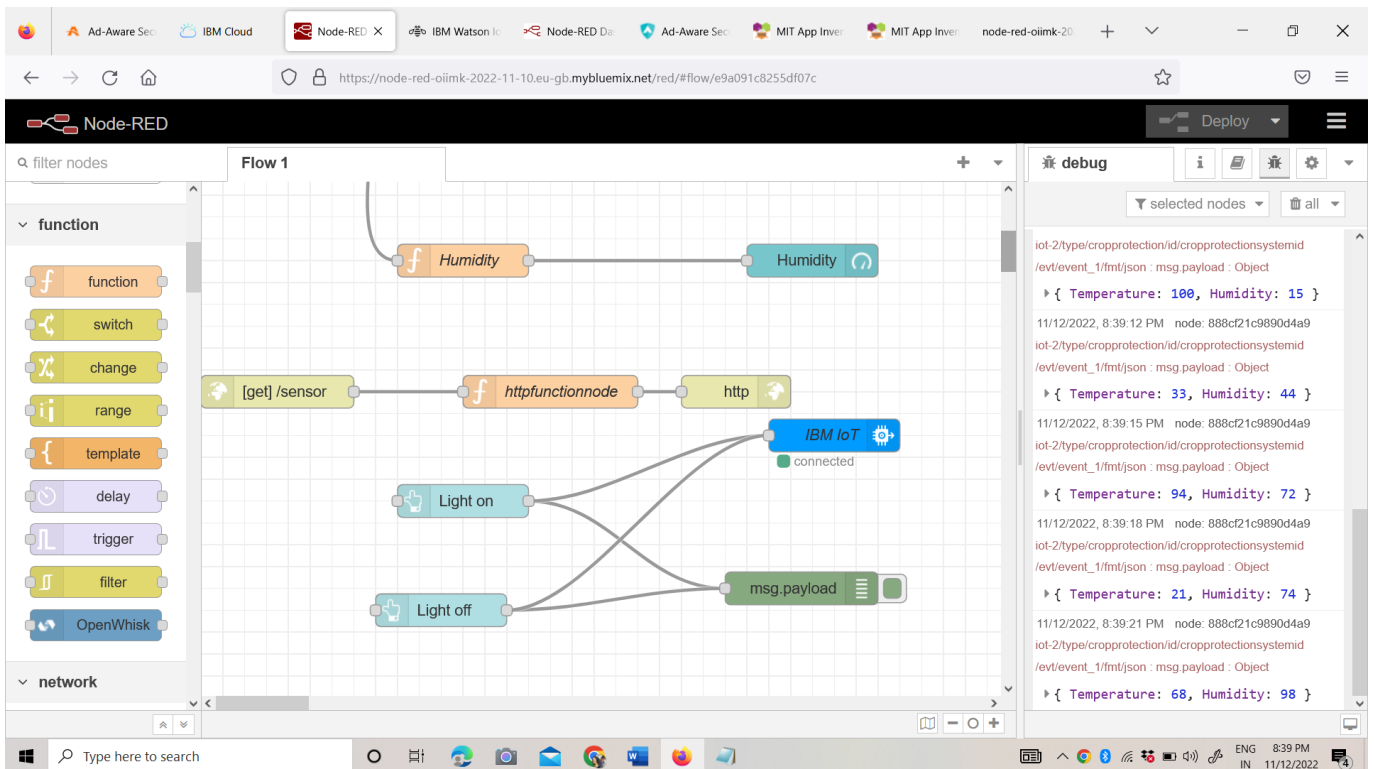
- IBM IoT** node (blue) with a 'connected' status indicator.
- msg.payload** node (green) connected to the output of the IBM IoT node.
- temperature node** (orange) connected to the output of the msg.payload node.
- Temperature** node (teal) connected to the output of the temperature node.

The left sidebar shows the 'function' category selected, with various nodes like 'function', 'switch', 'change', 'range', 'template', 'delay', 'trigger', 'filter', and 'OpenWhisk' available. The bottom sidebar shows the 'network' category.

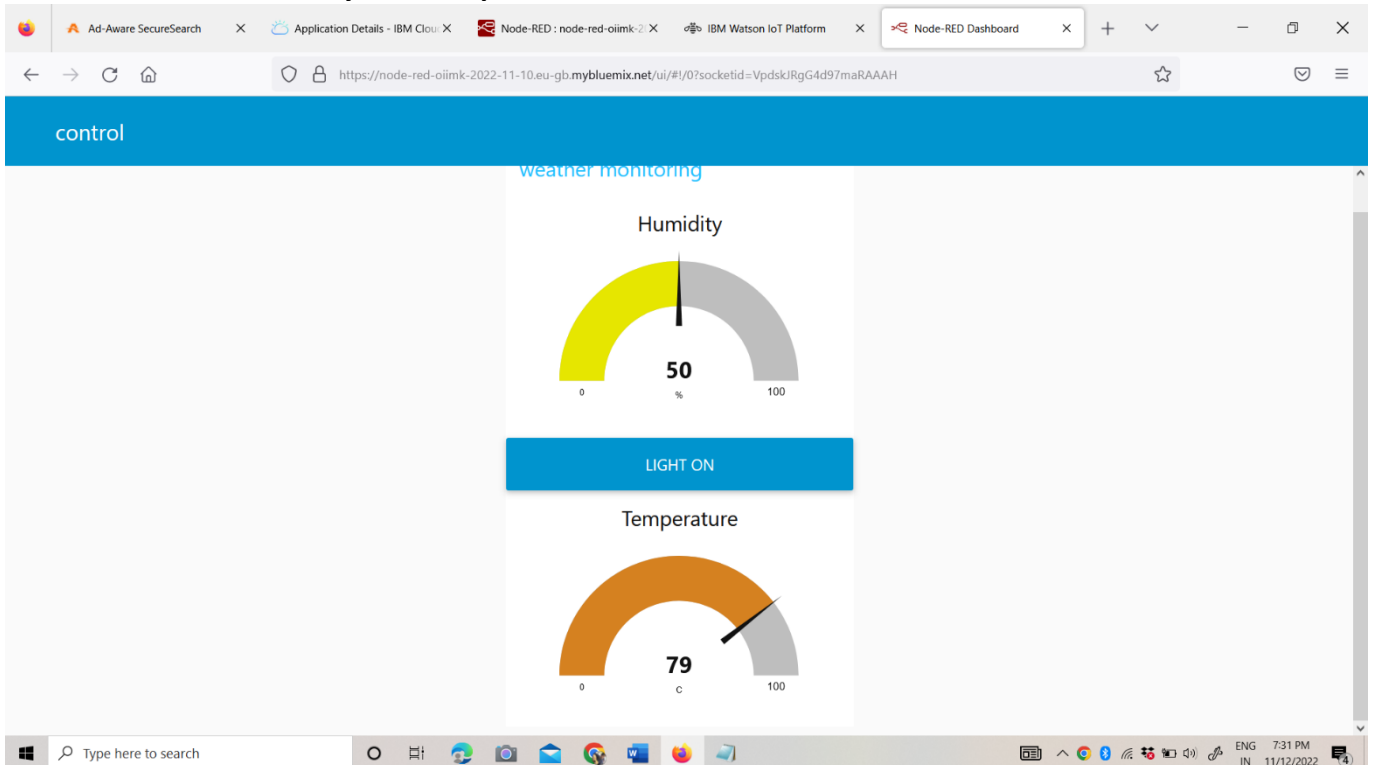
The right sidebar displays the 'debug' console, showing a log of events. The log entries are as follows:

```
iot-2/type/cropprotection/id/cropprotectionssystemid  
/evt/event_1/fmt/json : msg.payload : Object  
  object  
    Temperature: 56  
    Humidity: 10  
11/12/2022, 7:00:00 PM node: 888cf21c9890d4a9  
iot-2/type/cropprotection/id/cropprotectionssystemid  
/evt/event_1/fmt/json : msg.payload : Object  
  { Temperature: 56, Humidity: 32 }  
11/12/2022, 7:00:03 PM node: 888cf21c9890d4a9  
iot-2/type/cropprotection/id/cropprotectionssystemid  
/evt/event_1/fmt/json : msg.payload : Object  
  { Temperature: 25, Humidity: 74 }  
11/12/2022, 7:00:07 PM node: 888cf21c9890d4a9  
iot-2/type/cropprotection/id/cropprotectionssystemid  
/evt/event_1/fmt/json : msg.payload : Object  
  { Temperature: 85, Humidity: 68 }  
11/12/2022, 7:00:10 PM node: 888cf21c9890d4a9  
iot-2/type/cropprotection/id/cropprotectionssystemid
```

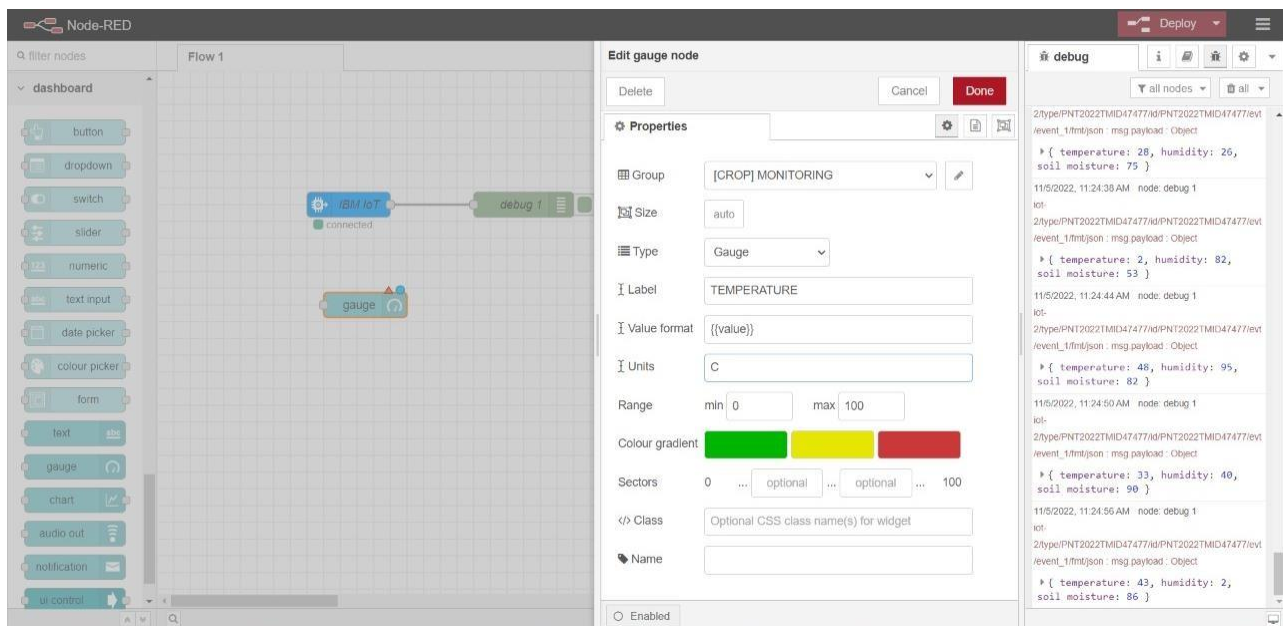
## Temperature and Humidity of land to check the Weather Condition:



## User Interface of Humidity and Temperature:



Edit gauge node (Here the gauge nodes are named as Temperature, Humidity and Soilmoisture):



Check with Wokwi with code whether the LED is Turn on:

