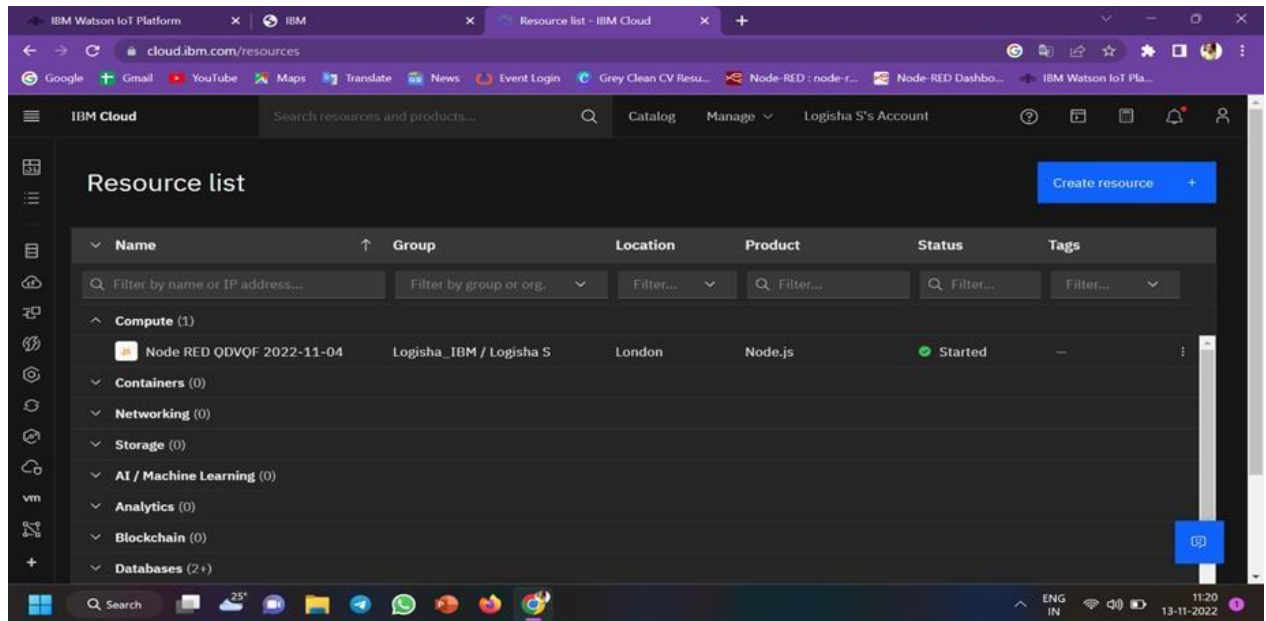


DEVELOP THE WEB APPLICATION USING NODE-RED

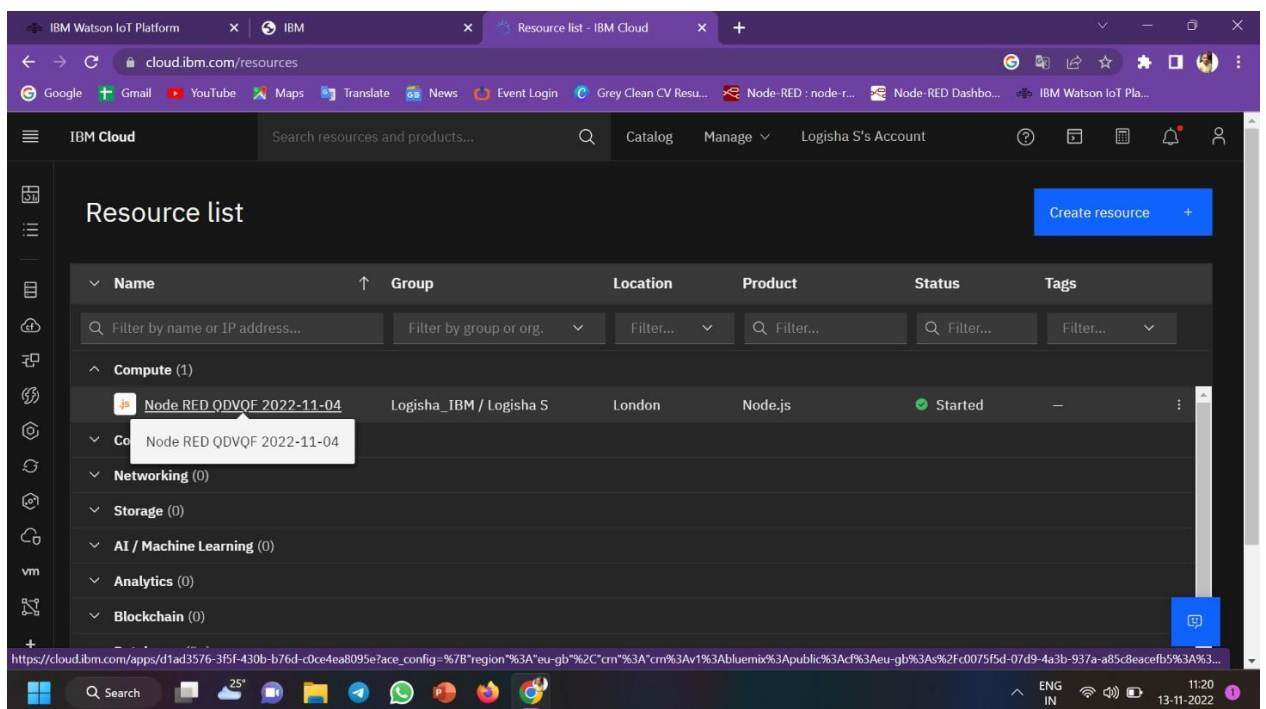
Date	13 NOVEMBER 2022
Team ID	PNT2022TMID32740
Project Name	Gas Leakage Monitoring and Alerting System

STEPS:

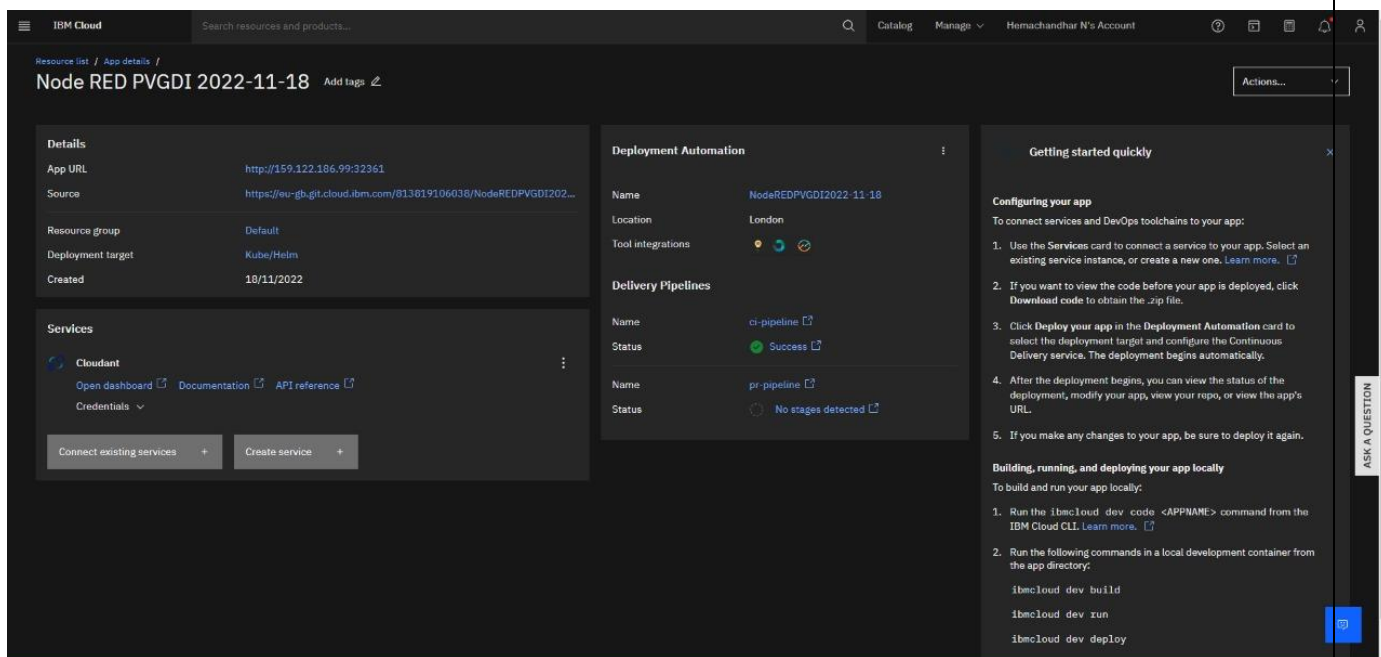
- ❖ IBM cloud dashboard, go to Node-Red application.



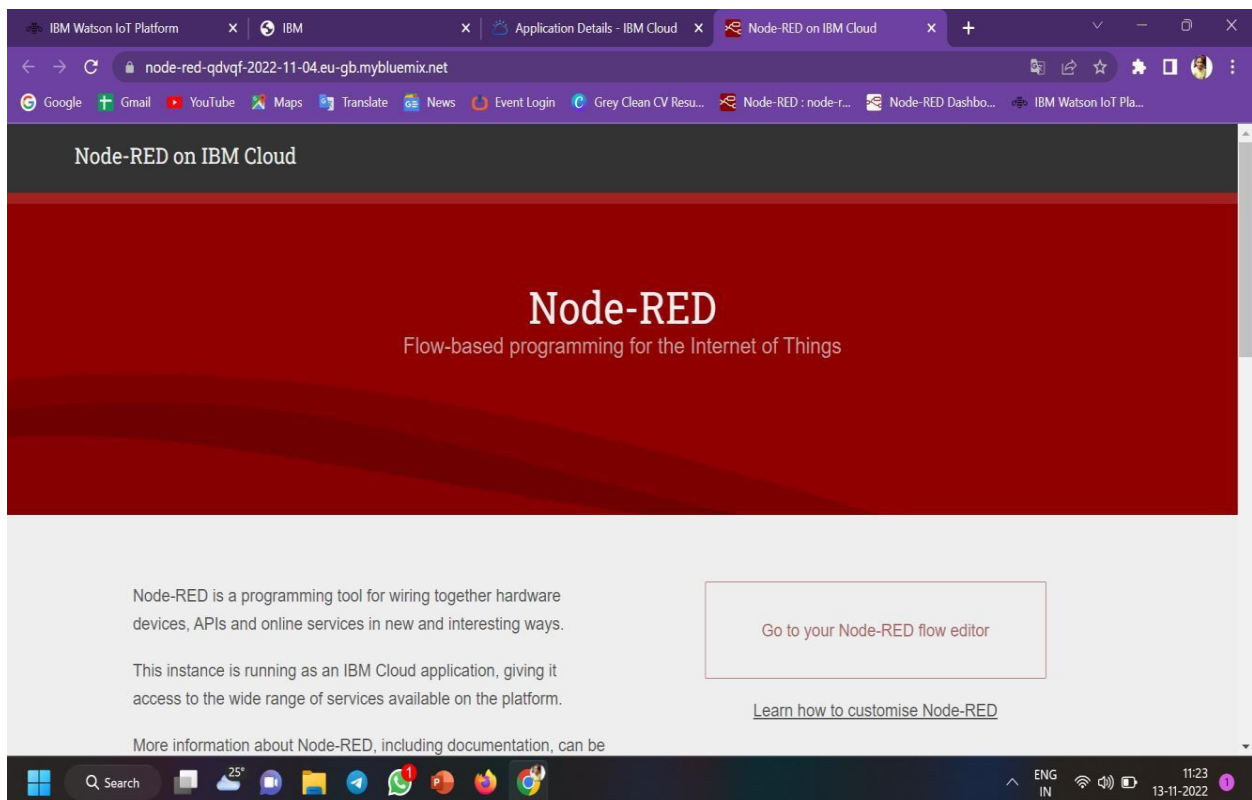
- ❖ A new window appears where we need to create Node-Red.



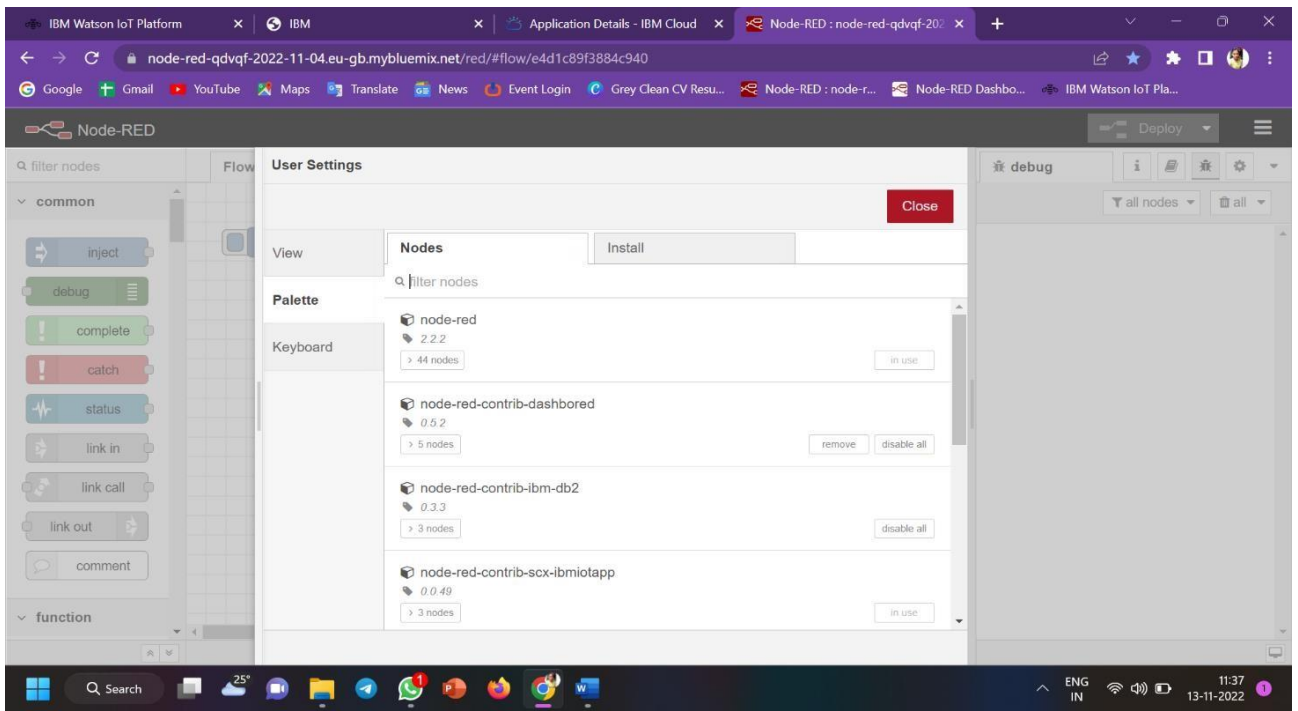
- ❖ Click on visit App URL in Node-Red service dashboard.



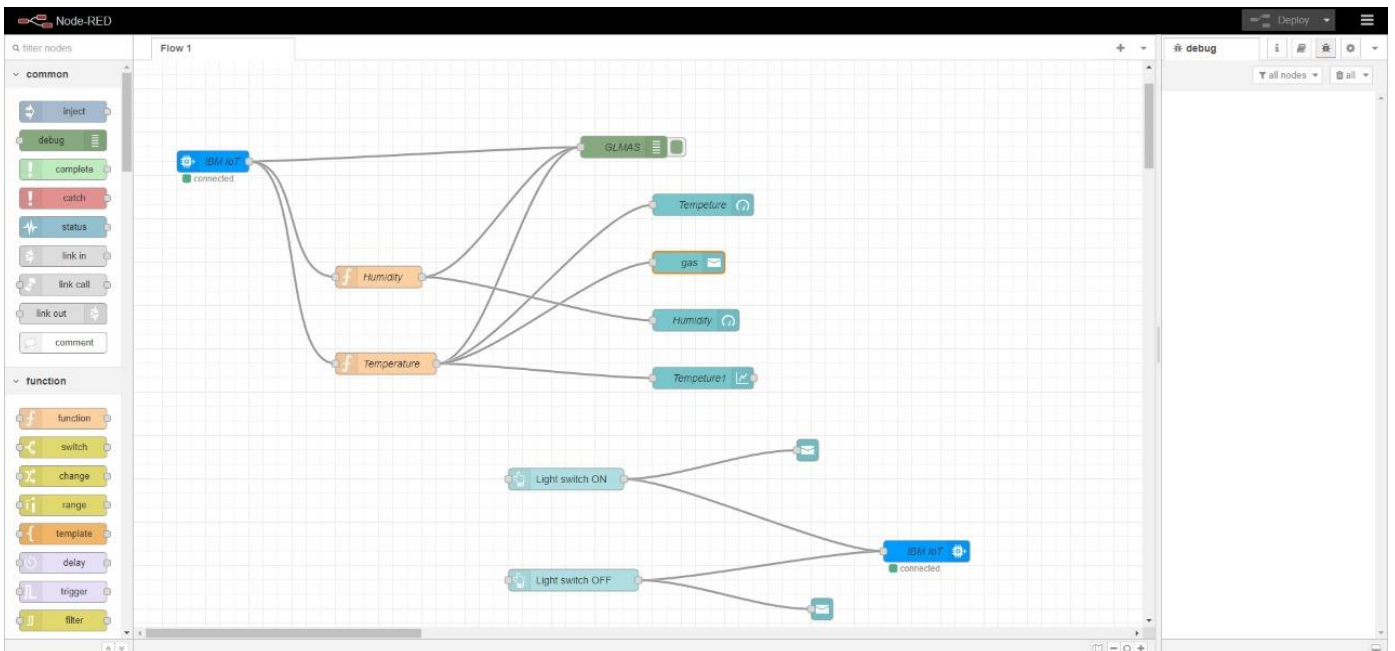
- ❖ Click on your Node-Red flow editor where you will be redirected to the Node-Red flow editor



- ❖ Install the Nodes from the Manage Palette.



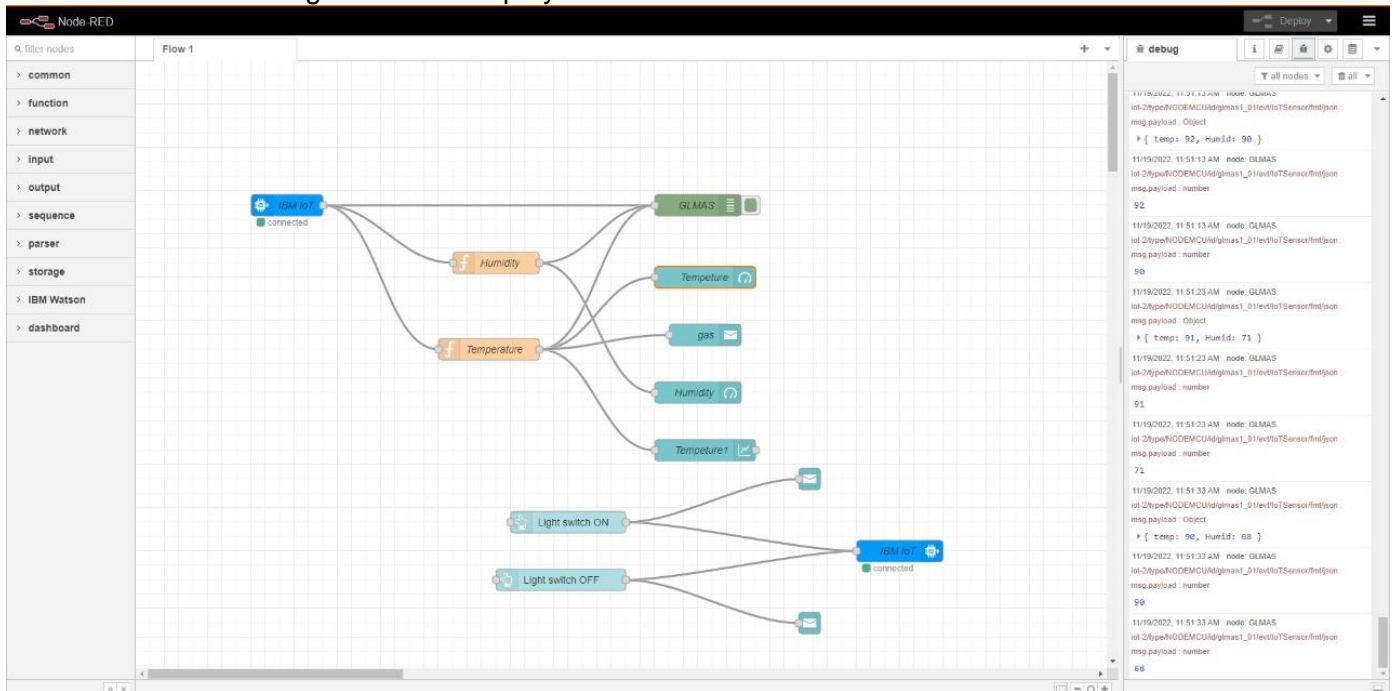
- ❖ Drag and place the function Node Gauge Node in the Flow editor and give the connection respectively.



- ❖ Click on the Deploy option to check the connection status please the debug Node in the flow editor and click on the deploy to see the respective value in the debug tab.

The screenshot displays the Node-RED web interface. On the left, the 'common' and 'function' node palettes are visible. The central workspace shows a flow named 'Flow 1' with an 'IBM IoT' node connected to several output nodes: 'Humidity', 'Temperature', 'GLMAS', 'Temperture', 'gas', 'Humidity', and 'Temperature?'. Below these, there are 'Light switch ON' and 'Light switch OFF' nodes. On the right, the 'Edit ibmiot in node' configuration panel is open, showing fields for Authentication (API Key), API Key (IBMIOT/APIKEY), Input Type (Device Event), Device Type (All or NODEMCU), Device Id (All or gimas1_01), Event (All or +), Format (All or json), QoS (0), Name (IBM IoT), and Service (registered). A yellow tooltip is visible at the bottom of the configuration panel, stating: 'Use the Input Type property to configure this node to receive Events sent by IoT Devices, Commands sent to IoT Devices, Status Messages referring to IoT Devices, or Status Messages referring to IoT Applications. Check the info tab, to get more information about each of the fields.' On the far right, the 'debug' console is open, showing a list of all nodes and a search bar.

❖ After editing the Nodes deploy it.



RESULT:

Thus, the Node-Red Web Application is created successfully.