

# Create Dashboard node for creating UI(Web app)

Batch-B8-2A

Project name-Gas leakage monitoring and Detection System

Team Id-PNT2022TMID33893

Step1:

- Open IBM Watson and create device.
- Enable the device simulator.

IBM Watson IoT Platform

Browse Devices

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device Simulator ☒

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
> <input type="checkbox"/>	123	Disconnected	ultrasensor	Device	Oct 25, 2022 7:45 PM	
> <input type="checkbox"/>	dist	Disconnected	distance	Device	Nov 7, 2022 10:28 PM	
> <input type="checkbox"/>	temphum	Disconnected	abcd	Device	Nov 2, 2022 6:59 PM	

Items per page 50 | 1-3 of 3 items

1 of 1 page

Step2:Open the device simulation and on the respective device simulation.

The screenshot shows the IBM Watson IoT Platform interface. The main page is titled 'Browse Devices' and contains a table of devices. A 'Simulations' overlay is open on the right side of the screen.

**Simulations Overlay:**

- 1/50 Simulations Running
- + New Simulation
- Device Type distance: Configure Event
- Device Type ultrasensor: 1 Event
- Device Type abcd: 1 Event
- 1 Device: temphum
- 1 x Create Simulated Device Use Registered Device
- 1 event sent 28 bytes sent
- 1 of 1 page

**Browse Devices Table:**

Device ID	Status	Device Type	Class ID	Date
123	Disconnected	ultrasensor	Device	Oct
dist	Disconnected	distance	Device	Nov
temphum	Disconnected	abcd	Device	Nov

Items per page 50 | 1-3 of 3 items

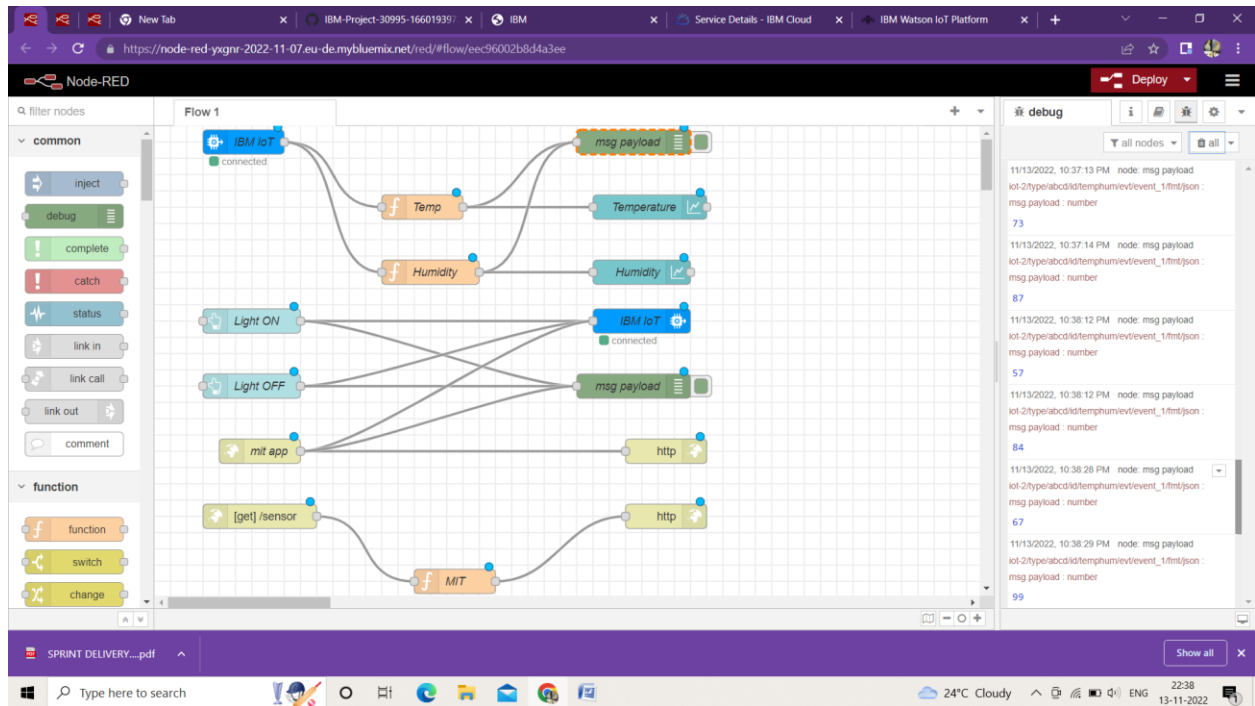
Step3:Alter the code,save and give send.

The screenshot shows the IBM Watson IoT Platform interface. The main view displays the 'Recent Events' for a device named 'temphum'. A modal window is open for editing the event type 'event\_1'. The modal shows a schedule of 'Every Minute' and a payload of a JSON object with 'temp' and 'Humid' fields. The payload is being edited to use random values: 'temp': random(10,80) and 'Humid': random(80,100). The modal also has a 'Send' button and an 'Upload a CSV file' button.

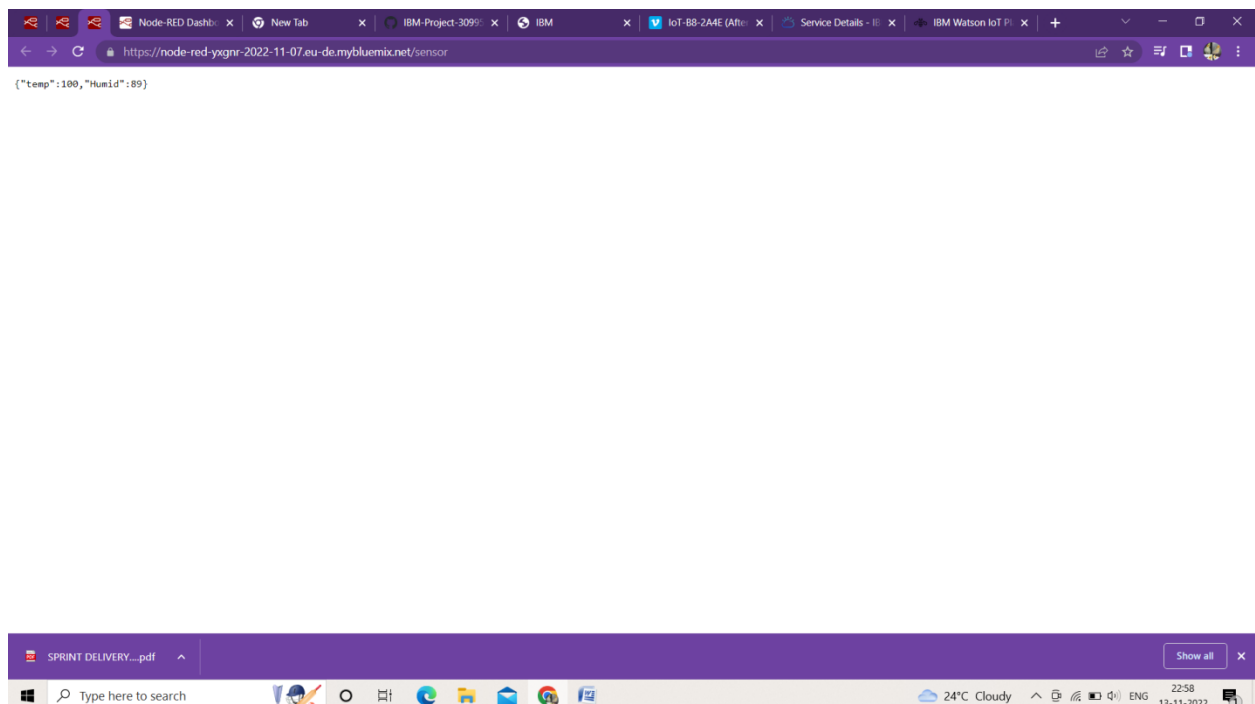
Step4:Open the Node-Red.

The screenshot shows the Node-RED interface. The main view displays a flow named 'Flow 1'. The flow starts with an 'IBM IoT' node connected to 'Temp' and 'Humidity' nodes. These nodes are connected to 'msg payload' nodes. The flow also includes 'Light ON' and 'Light OFF' nodes connected to an 'IBM IoT' node, and a 'mit app' node connected to an 'http' node. The flow ends with a 'MIT' node connected to an 'http' node.

Step5:When we give send the output is displayed on the node red screen.



Step6:Temperature and Humidity value will be displayed in the Web page.



Step7:The Output is displayed in the Recent events.

The screenshot shows the IBM Watson IoT Platform interface. The 'Recent Events' tab is selected for the device 'temphum'. The events table shows one event, 'event\_1', with a payload of `{\"temp\":67,\"Humid\":99}` in JSON format, received a few seconds ago. A modal window is open for configuring a new event type named 'event\_1'. The schedule is set to 'Every Minute'. The payload is defined as a JSON object with 'temp' and 'Humid' fields, each using a random value generator: `{\"temp\": random(10,80), \"Humid\": random(80,100)}`.

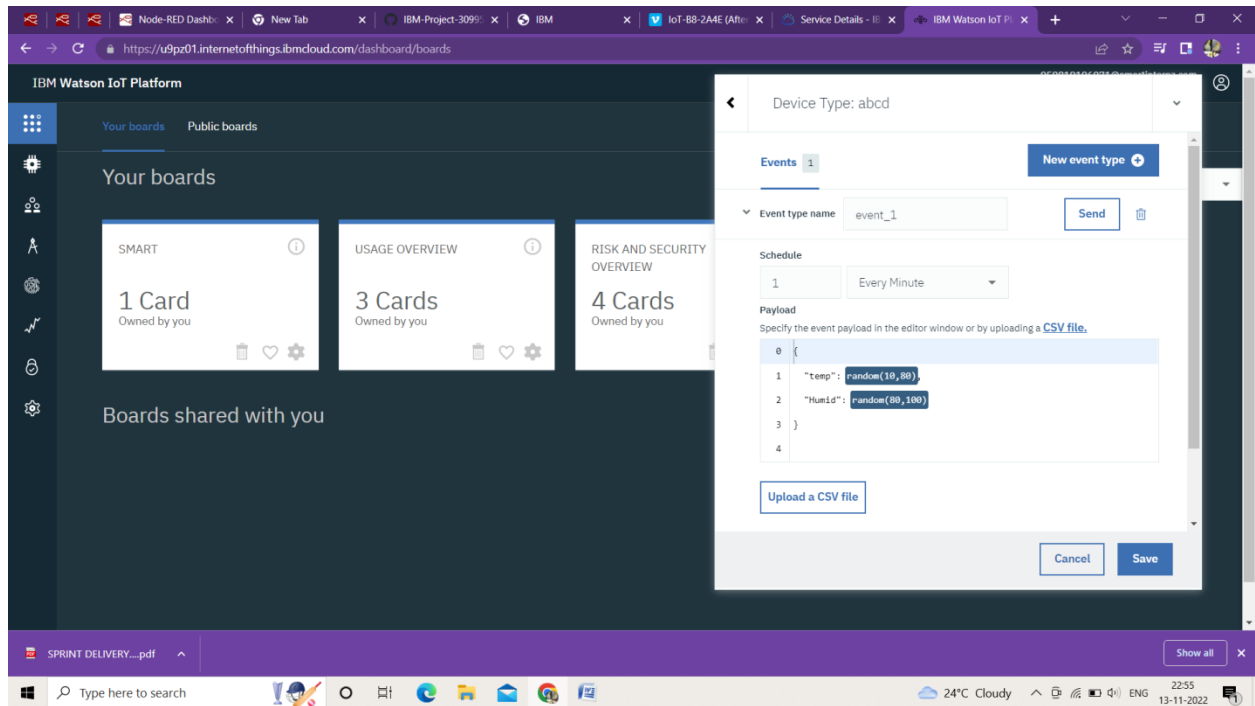
Event	Value	Format	Last Received
event_1	<code>{\"temp\":67,\"Humid\":99}</code>	json	a few seconds ago

Step8:Go to Boards.

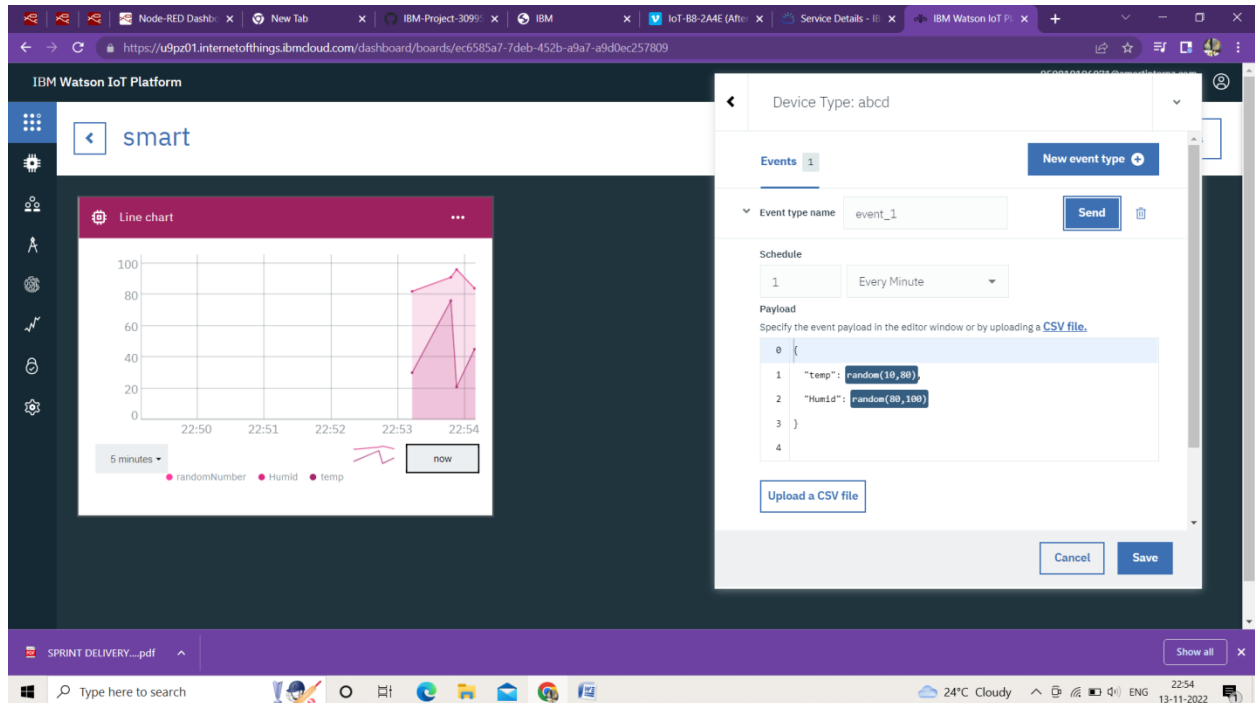
The screenshot shows the IBM Watson IoT Platform interface with the 'Boards' tab selected. A list of devices is displayed, including 'dist', 'temphum', and 'ultrasensor'. A modal window for configuring a new event type is also visible, showing the same configuration as in Step 7.

Device ID	Status	Device Type	Class ID	Date
23	Disconnected	ultrasensor	Device	Oct
dist	Disconnected	distance	Device	Nov
temphum	Disconnected	abcd	Device	Nov

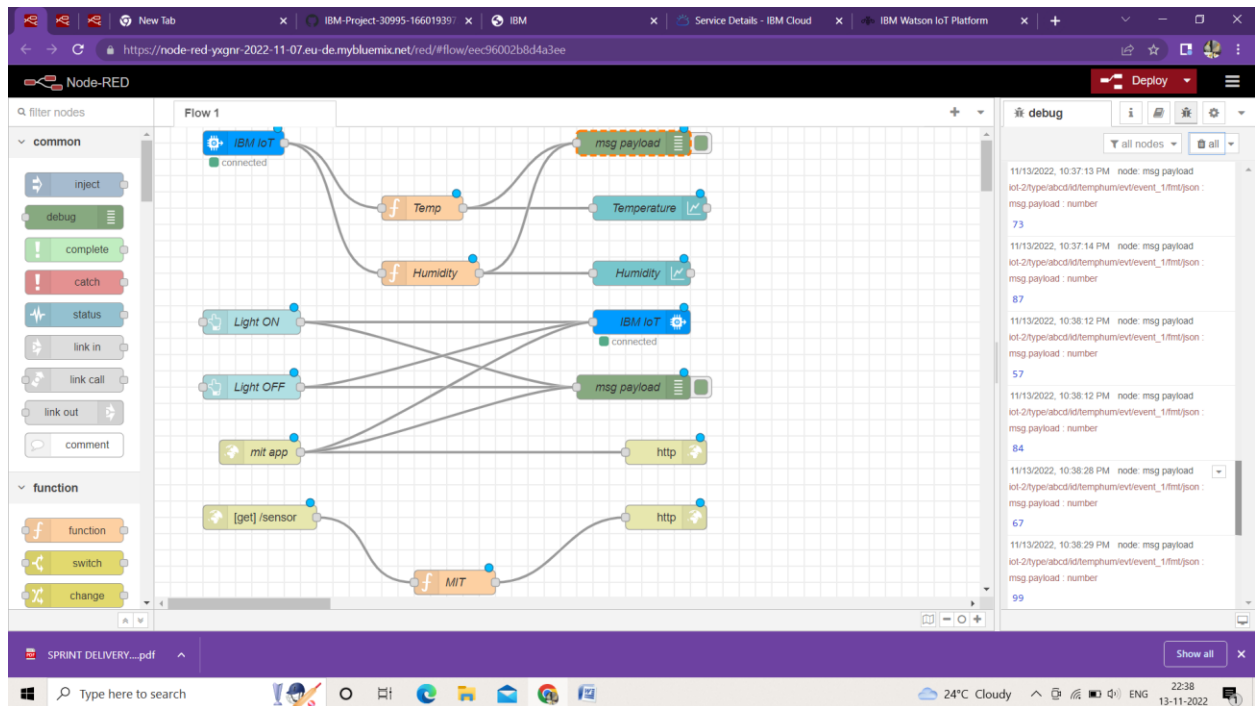
Step9:Open Your Boards.



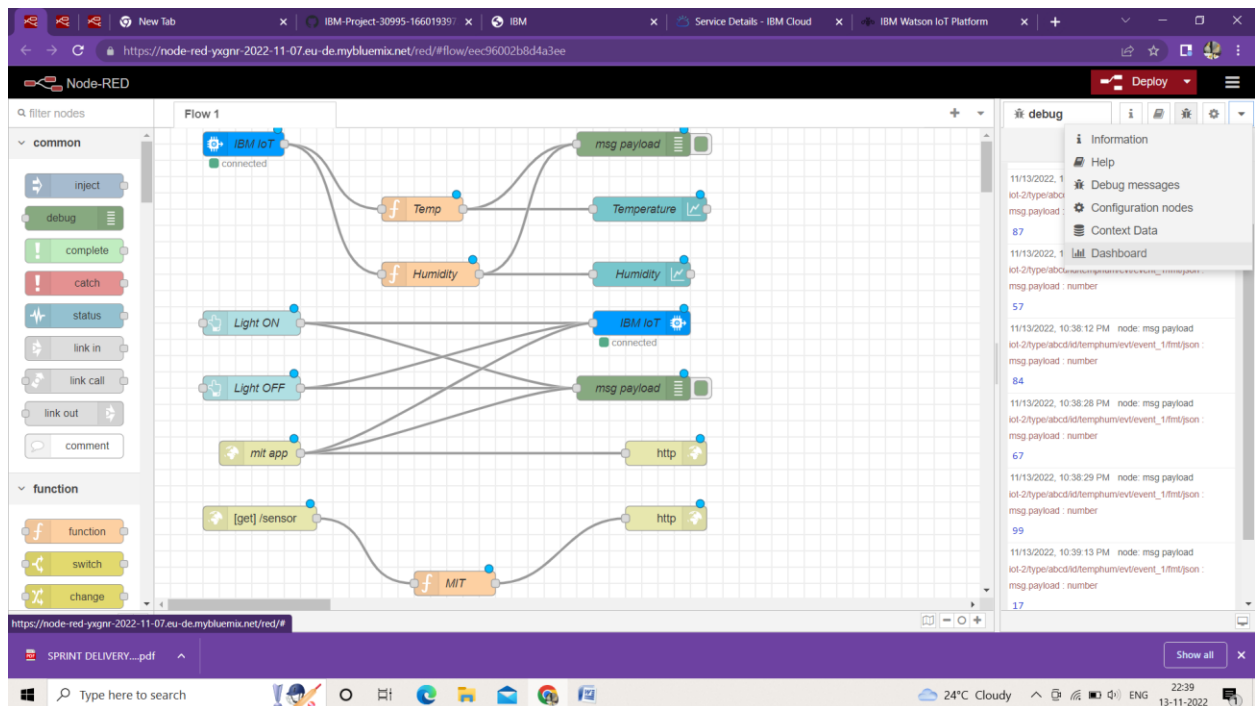
Step10:The line chart is Displayed.



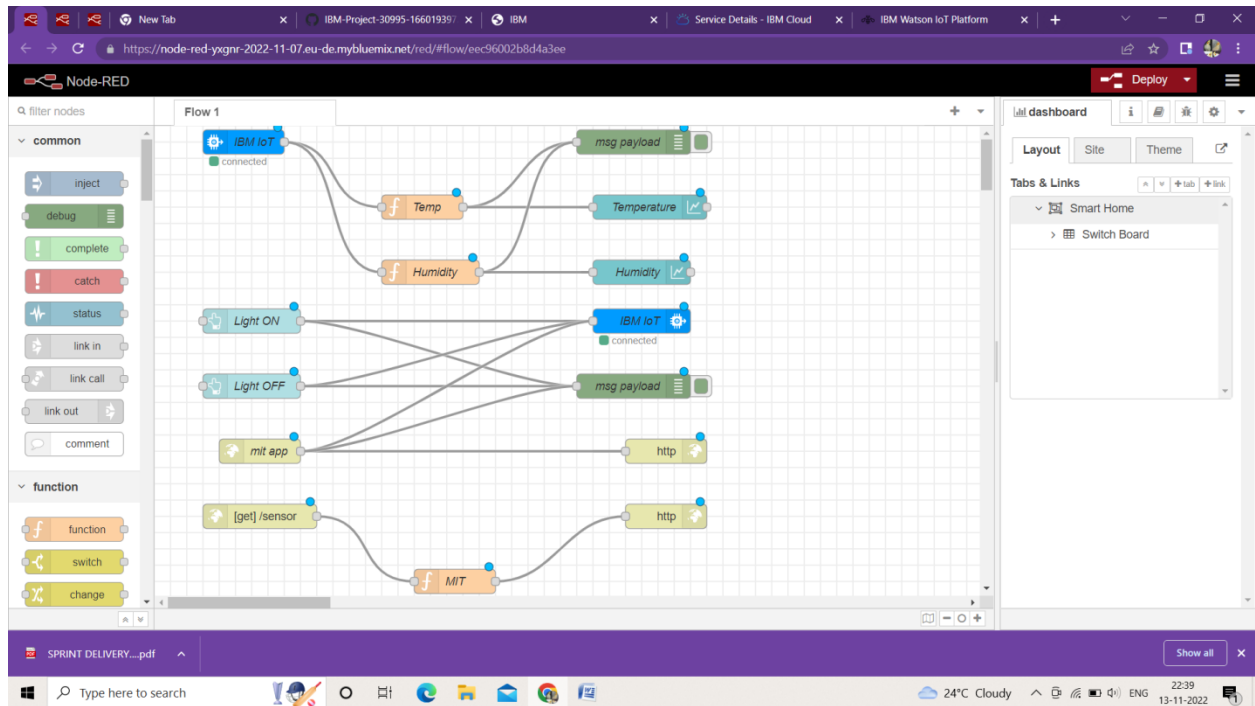
Step 11: Again open the Node Red flow.



Step 12: Open the Dashboard.



Step 13: Open Layout and open Smart Home.



Step 14: The Temperature and Humidity Graph is Displayed.

