

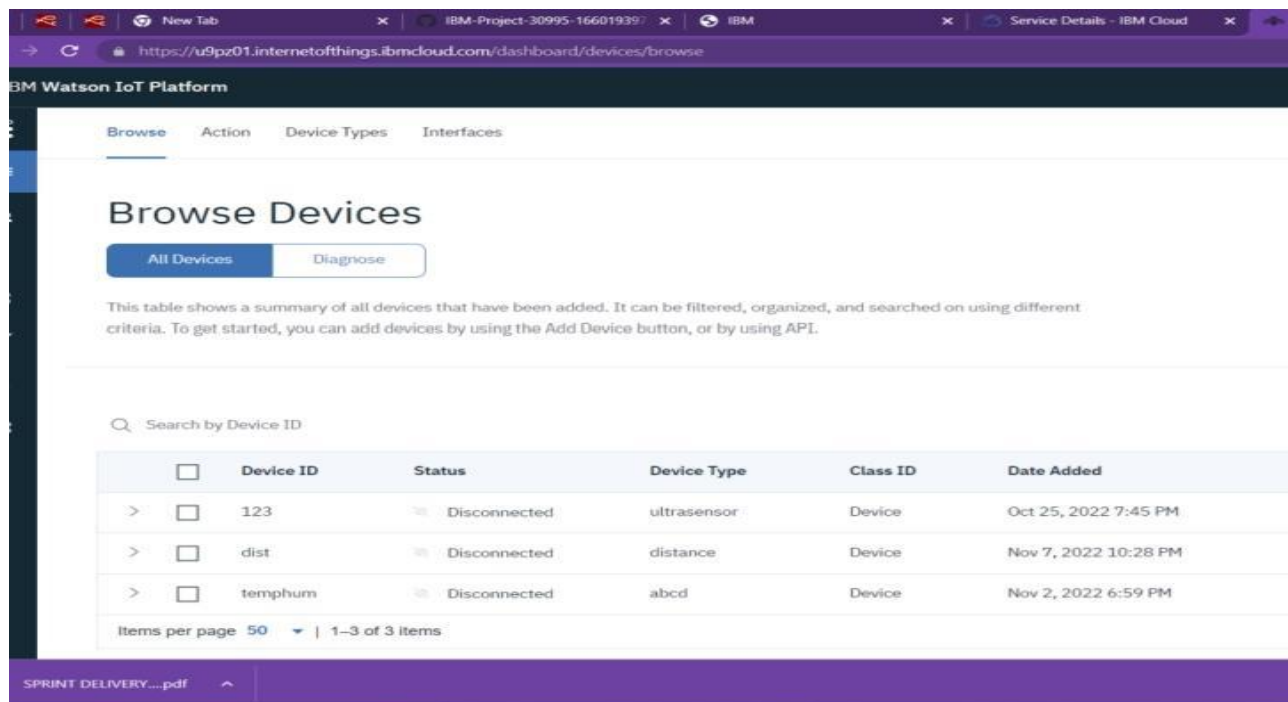
# DEVELOPE A WEB APPLICATION USING NODE-RED

Project name-Gas leakage monitoring and Detection System

Team Id-PNT2022TMID53925

Step1:

- a) Open IBM Watson and create device.
- b) Enable the device simulator.



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

The screenshot shows the IBM Watson IoT Platform interface. The main panel is titled 'Browse Devices' and contains a table of devices. A sidebar on the right, titled 'Simulations', is open, showing a list of device types and a 'New Simulation' button. The table in the main panel has the following data:

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

The 'Simulations' sidebar shows 1/50 Simulations Running and a list of device types: distance, ultrasensor, and abcd. The 'ab cd' device type is selected, showing 1 Event and a 'Create Simulated Device' button.

Step3:Alter the code,save and give send.

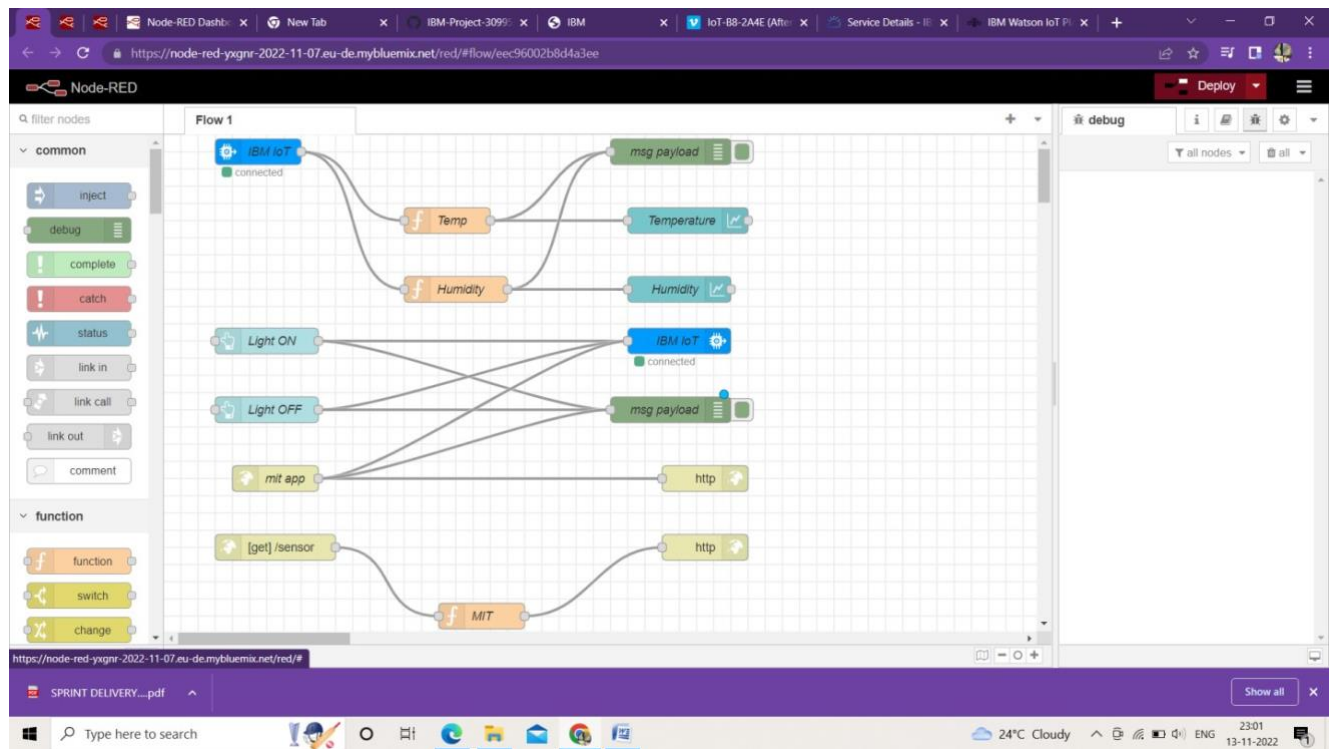
The screenshot shows the 'Device Type: abcd' configuration page. The 'Events' tab is selected, showing a list of events. The 'event\_1' event is selected, and the 'Payload' field is being edited. The payload is a JSON object with the following structure:

```
{
  "temp": random(10,90),
  "Humid": random(80,100)
}
```

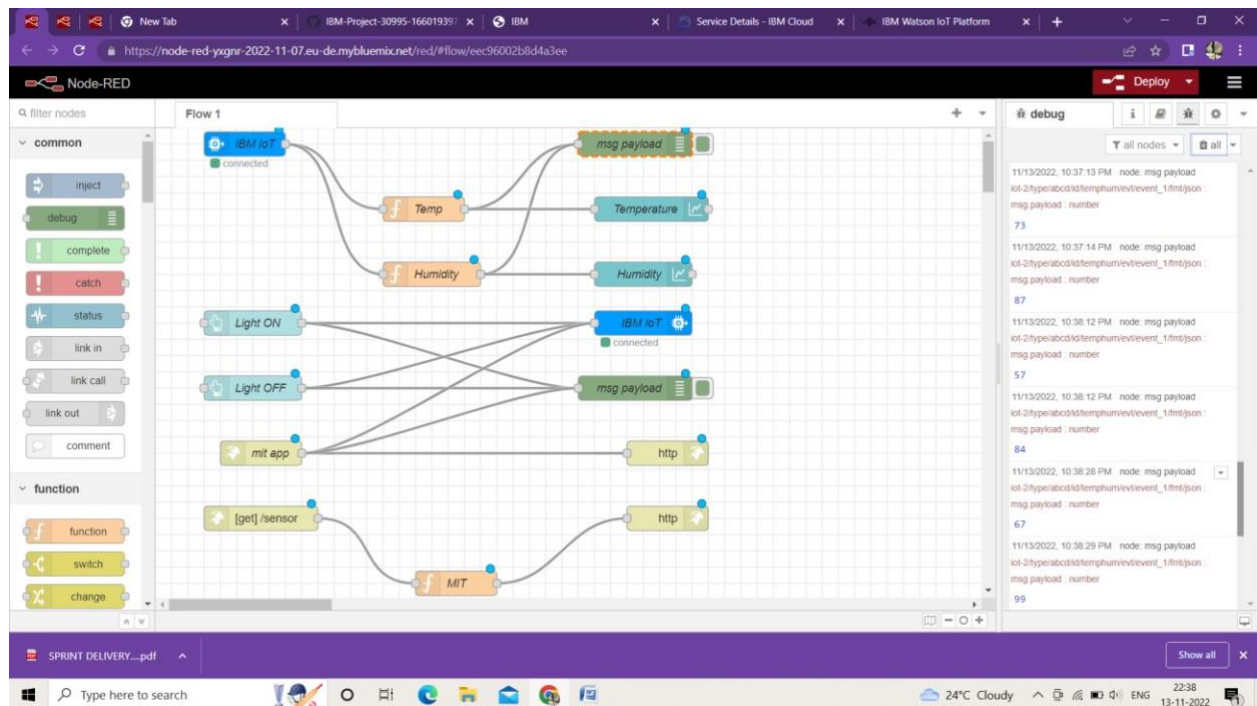
The 'Schedule' field is set to 'Every Minute'. The 'Send' button is visible. The 'Device Type: abcd' configuration page also shows a table of recent events:

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

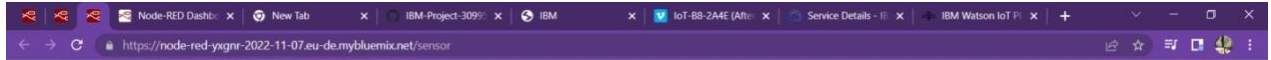
Step4:Open the Node-Red.



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.



{"temp":100,"Humid":89}

