

DEVELOPE A WEB APPLICATION USING NODE-RED

Batch-B8-2A

Project name-Gas leakage monitoring and Detection System

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Step1:

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

IBM Watson IoT Platform

Browse Action Device Types Interfaces

Add Device

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 ☒

	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
>	123	Disconnected	ultrasensor	Device	Oct 25, 2022 7:45 PM	
>	dist	Disconnected	distance	Device	Nov 7, 2022 10:28 PM	
>	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 panel is titled 'Browse Devices' and contains a table of devices. A 'Simulations' panel is open on the right, showing a list of simulations for different device types. The 'temphum' device is selected, and the 'Create Simulated Device' button is highlighted.

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

Simulations

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

Step3:Alter the code,save and give send.

The screenshot shows the 'Device Type: abcd' simulation configuration page. The 'Events' tab is active, showing a list of events. The 'event_1' event is selected, and the 'Send' button is highlighted. The 'Payload' section shows a JSON payload with random values for 'temp' and 'Humid'.

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

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Device Type: abcd

Events 1

New event type +

Event type name event_1

Send

Schedule

1 Every Minute

Payload

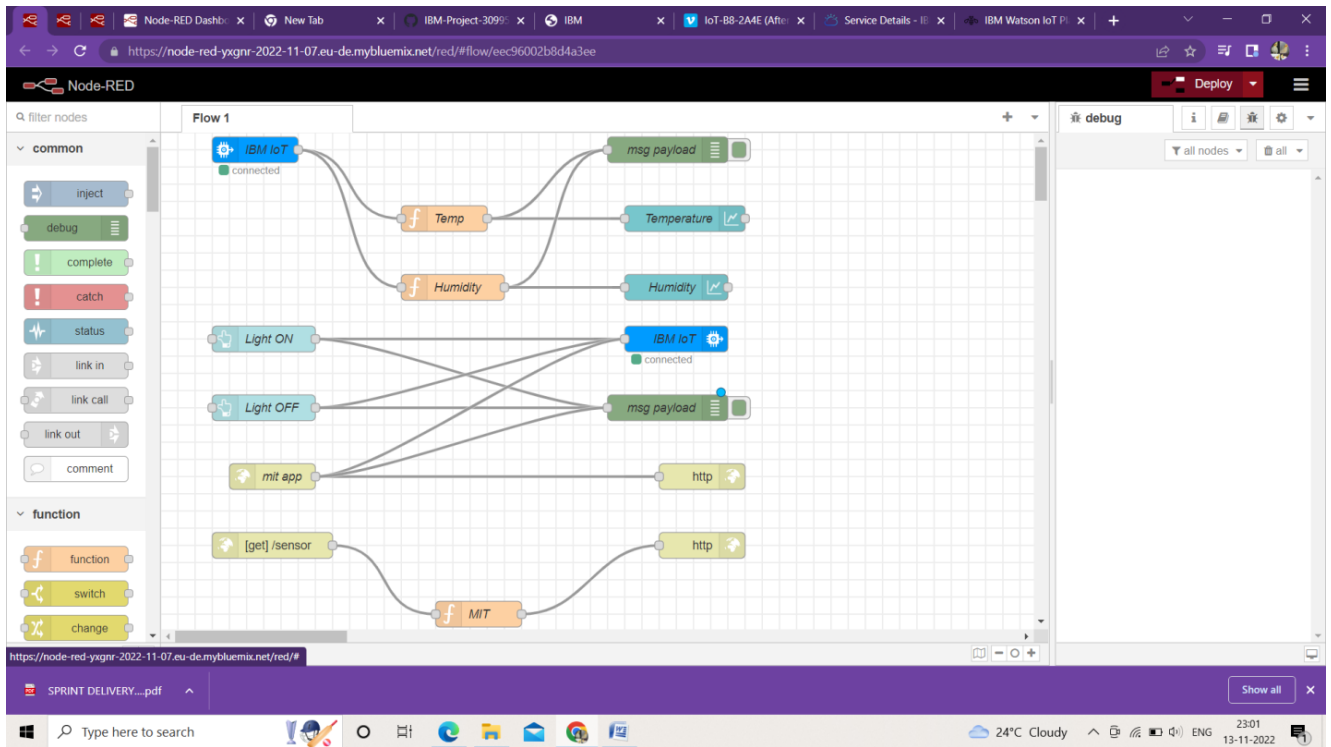
Specify the event payload in the editor window or by uploading a CSV file.

```
0 {
1   "temp": random(10,80)
2   "Humid": random(80,100)
3 }
4
```

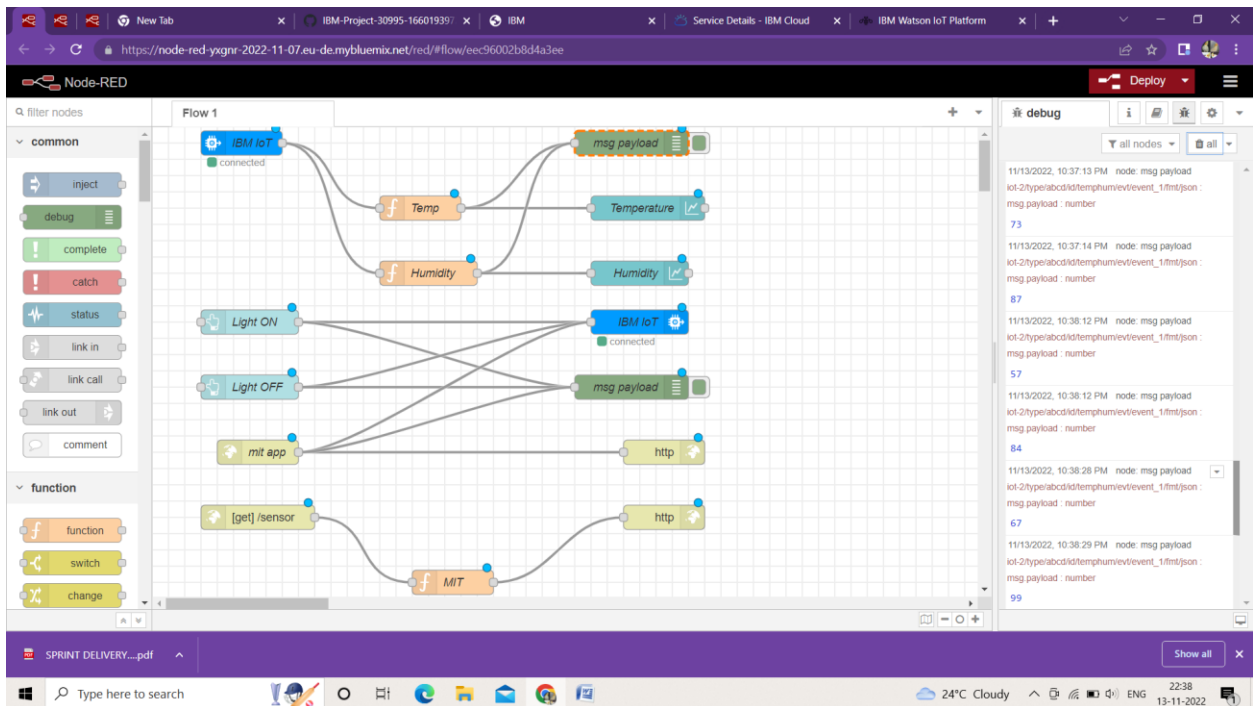
Upload a CSV file

Cancel Save

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.

