

SPRINT-2

Date	06 November 2022
Team ID	PNT2022TMID30034
Project Name	Smart Farmer - IoT Enabled Smart Farming Application

Step-1:

Creating device in IBM Watson.

The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar includes tabs for Node-RED, Node-RED Dashboard, Welcome to Project, IBM, Service Details - IBM, and IBM Watson IoT Platform. The main header shows the user's email (610819106013@smartinternz.com) and ID (o7kvsp). The left sidebar contains icons for various functions. The main content area is titled 'Browse Devices' and includes a 'Add Device' button. Below the title, there are tabs for 'All Devices' and 'Diagnose'. A descriptive text states: '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.' A search bar labeled 'Search by Device ID' is present. The table below lists the devices:

Device ID	Status	Device Type	Class ID	Date Added
123	Disconnected	Aurdino	Device	Oct 16, 2022 1:43 PM

At the bottom of the table, it indicates 'Items per page 50' and '1-1 of 1 item'. A 'Device Simulator' toggle is set to 'On'. At the bottom right, it shows '1 Simulation running'.

Step-2:

Enable device simulator and create event of the device.

The screenshot displays the IBM Watson IoT Platform interface. The main page is titled 'Browse Devices' and shows a table of devices. A modal window is open for creating a new event type for a device of type 'Aurdino'.

Device Type: Aurdino

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   "randomlumber": random(0, 100),  
2   "temp": random(0, 99),  
3   "hum": random(0, 100),  
4   "moisture": random(0, 100)  
5 }  
6
```

Table: Browse Devices

Device ID	Status	Device Type
123	Disconnected	Aurdino

Items per page: 50 | 1-1 of 1 item

Step-3:

- Connecting IBM Watson to node-red to send device data from cloud to node-red.
- Creating Node-red dashboard to display the received data.
- It will display farm data like temperature, humidity, moisture. For monitoring weather, Climatic conditions of that region will be displayed in dashboard for every five minutes.

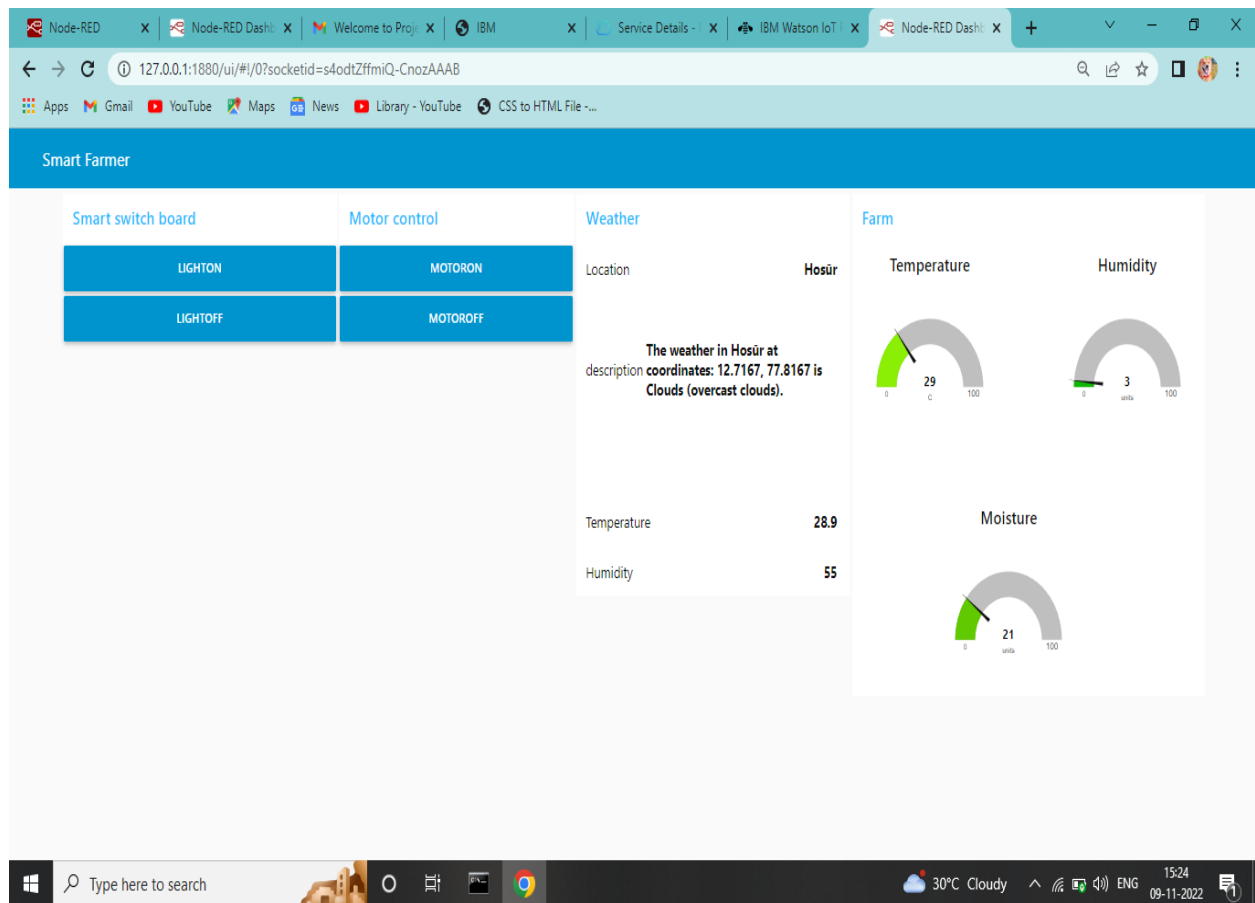


Fig. USN-6: Accessing node-red Dashboard