

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 main heading is "Browse Devices". Below it, there are tabs for "All Devices" and "Diagnose". A message 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." Below this is a search bar labeled "Search by Device ID". To the right of the search bar is a "Device Simulator" toggle switch, which is currently turned on. Below the search bar is a table with the following columns: Device ID, Status, Device Type, Class ID, and Date Added. The table contains one row with the following data: Device ID 123, Status Disconnected, Device Type Aurdino, Class ID Device, and Date Added Oct 16, 2022 1:43 PM. Below the table, there is a pagination bar showing "Items per page 50" and "1-1 of 1 item". To the right of the pagination bar, it says "1 of 1 page". At the bottom of the page, there is a status bar that says "1 Simulation running".

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

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 an Arduino device.

Device Type: Arduino

Events 1 New event type +

Event type name: Send

Schedule

1

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, 90),  
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.

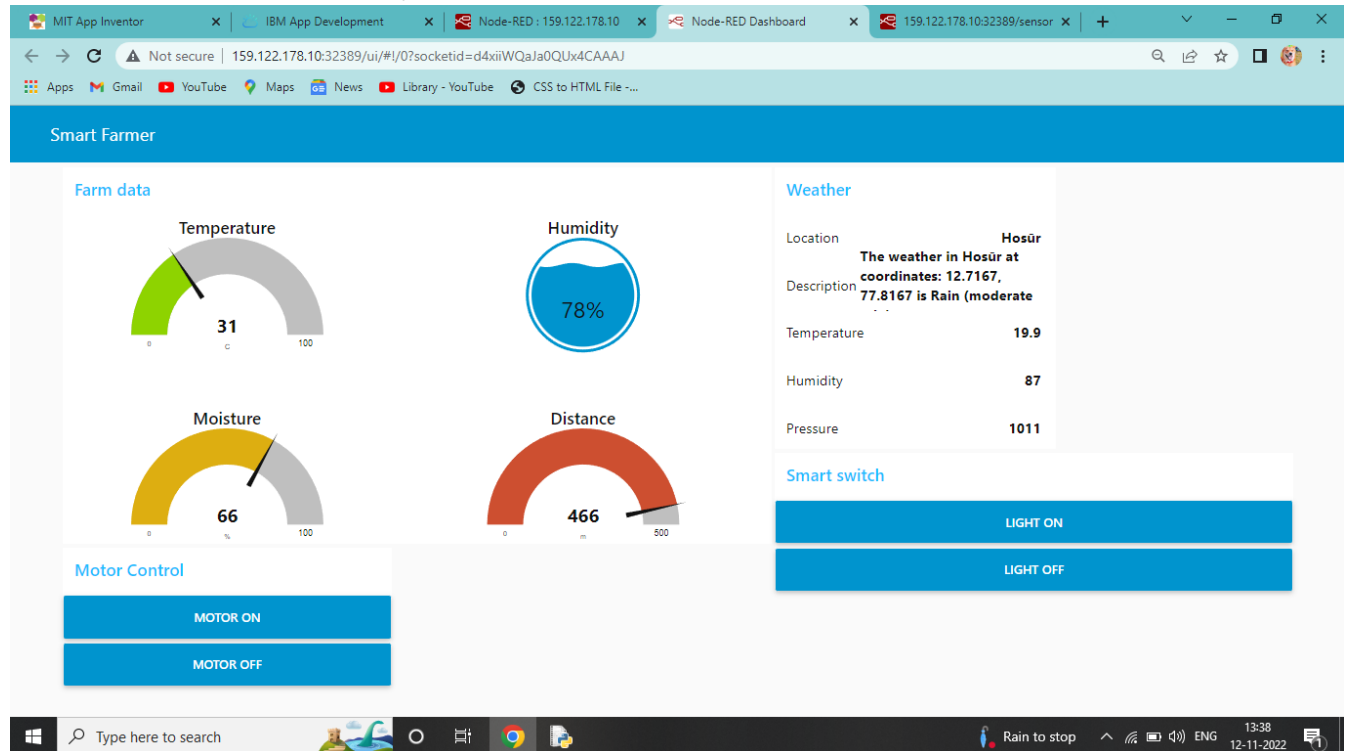


Fig. USN-6: Accessing node-red Dashboard