

Sprint - 2

- Team ID : PNT2022TMID22491
- Project Name Project : Signs with Smart Connectivity for Better Road Safety

Step – 1

Create a Device using IBM IoT platform

The screenshot displays the IBM Watson IoT Platform dashboard. The browser address bar shows the URL: `1658ut.internetofthings.ibmcloud.com/dashboard/devices/browse`. The dashboard header includes the IBM Watson IoT Platform logo and a user profile for `sundarrajanm.ece19@veltechmultitech.org` with ID `1658ut`. A navigation bar contains tabs for `Browse`, `Action`, `Device Types`, and `Interfaces`, along with an `Add Device` button.

The main content area shows a list of devices. A search bar is present with the text "Search by Device ID". The device list table has the following columns: `Device ID`, `Status`, `Device Type`, `Class ID`, `Date Added`, `Descriptive Location`, and `Added By`. One device is listed with ID `2244`, status `Disconnected`, and type `sundar`.

An expanded view for the device `2244` is shown below the table, displaying the following details:

Identity	Device Information	Recent Events	State	Logs
Device ID	2244			
Device Type	sundar			
Date Added	Nov 19, 2022 1:02 PM			
Added By	sundarrajanm.ece19@veltechmultitech.org			
Connection Status	Disconnected			

At the bottom of the dashboard, there is a status bar indicating "1 Simulation running". The Windows taskbar at the very bottom shows the time as 1:12 PM on 11/19/2022.

Step – 2

Generating Simulation:

The screenshot shows the IBM Watson IoT Platform interface. The main panel displays the details for device 2244, which is currently disconnected. The 'Recent Events' tab is active, showing a list of events generated by the device. A modal window is open for configuring a new event type named 'event_1' for the device type 'sundar'. The event is scheduled to occur every minute. The payload is a JSON object with random values for Temperature, Humidity, and Rain.

Event	Value	Format	Last Received
event_1	{"Temperature":16,"Humidity":30,"Rain":6}	json	a few seconds ago
event_1	{"Temperature":89,"Humidity":97,"Rain":89}	json	a few seconds ago
event_1	{"Temperature":11,"Humidity":86,"Rain":33}	json	a few seconds ago
event_1	{"Temperature":3,"Humidity":33,"Rain":32}	json	a few seconds ago
event_1	{"Temperature":47,"Humidity":69,"Rain":64}	json	a few seconds ago

Event type name: event_1

Schedule: 20 Every Minute

Payload:

```
{
  "Temperature": random(0, 100),
  "Humidity": random(0, 100),
  "Rain": random(0, 100)
}
```

Buttons: Send, Upload a CSV file, Cancel, Save

The screenshot shows the same IBM Watson IoT Platform interface, but now the device 2244 is connected and the simulation is running. The 'Recent Events' tab shows a new set of events generated by the simulation. A status bar at the bottom indicates '1 Simulation running'.

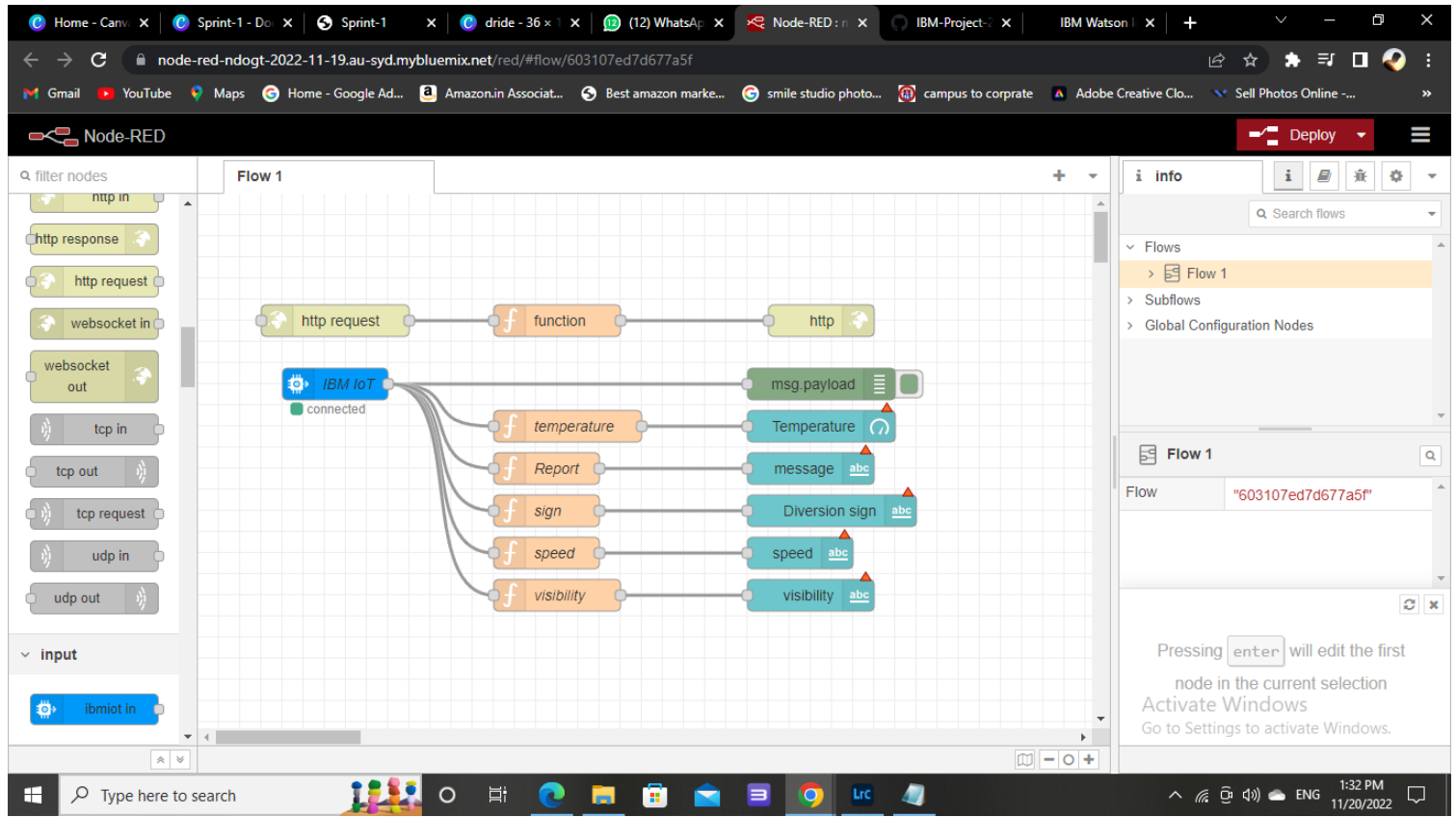
Event	Value	Format	Last Received
event_1	{"Temperature":98,"Humidity":20,"Rain":26}	json	a few seconds ago
event_1	{"Temperature":28,"Humidity":48,"Rain":30}	json	a few seconds ago
event_1	{"Temperature":88,"Humidity":58,"Rain":86}	json	a few seconds ago
event_1	{"Temperature":13,"Humidity":43,"Rain":92}	json	a few seconds ago
event_1	{"Temperature":63,"Humidity":89,"Rain":7}	json	a few seconds ago

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1 Simulation running

Step – 3: Creating Node-Red



Step – 4: Altering Link using ui to get the Graphical output

