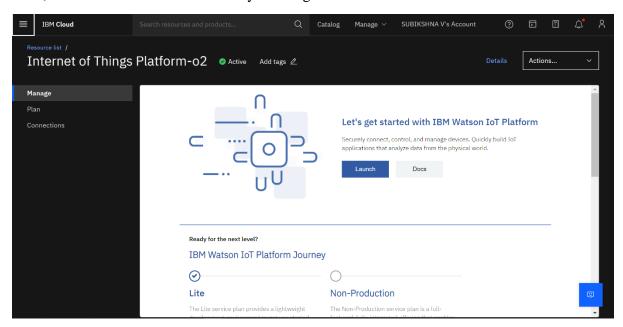
SPRINT 3

Team ID	PNT2022TMID04755
Project name	SmartFarmer - IOT Enabled Smart Farming
	Application

Now, Let's start with IBM Watson by clicking the Launch button.



Device Credentials:

Organization ID - flippr

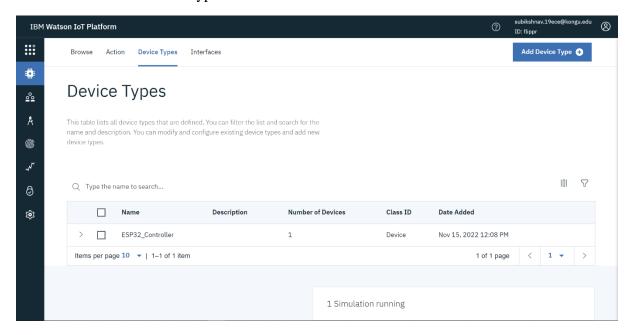
Device Type - ESP32_Controller

Device ID- BME280_Sensor

Authentication Method - use-token-auth

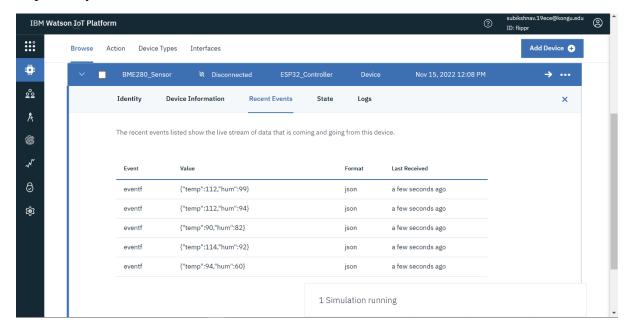
Authentication Token - C-4ZDzZOLNhQ11Ckzr

These are the list of device types.

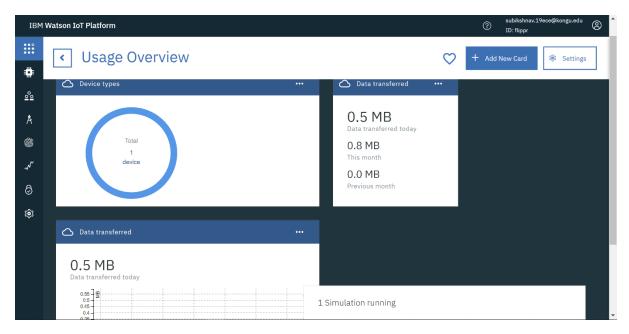


The below are the recent events by connecting the code with IBM cloud for certain time period.

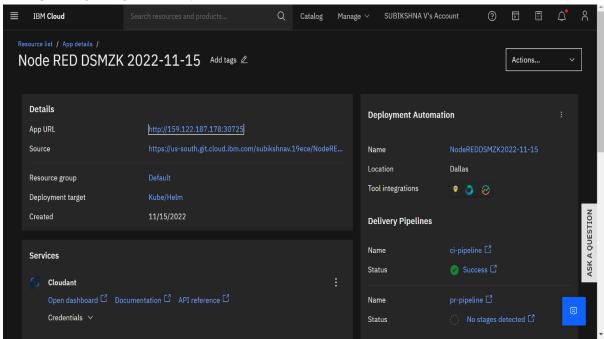
The random values of temperature and humidity is ranges from 90 to 120 and 60 to 100 respectively.



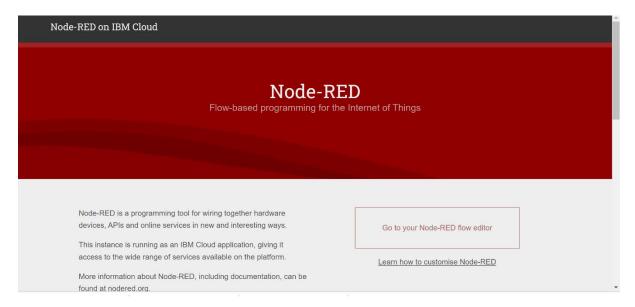
By clicking the device, the usage overview is displayed. The simulator data is received from the cloud.



APP URL FOR NODE-RED:

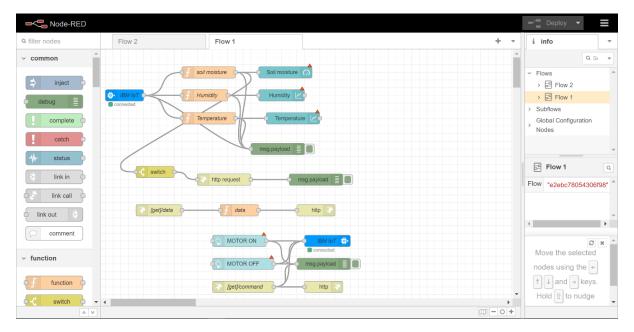


FRONT PAGE OF NODE-RED:

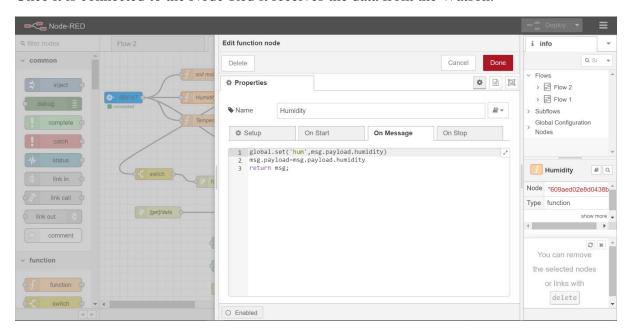


Now configure the Node-Red with IBM Watson platform to collect the IBM cloud data.

The IBM Watson is added to Node-Red. Then the appropriate device credentials obtained earlier are entered into the node to connect and fetch device telemetry to Node-Red.



Once it is connected to the Node-Red it receives the data from the Watson.



Connect the function node and write the Java script code to get each reading for temperature, humidity and soil moisture. Function name is renamed as temperature, humidity and soil moisture.

```
Json code for Soil moisture:
```

```
global.set('moist' , msg.payload.soil-moisture)
msg.payload = msg.payload.soil-moisture
return msg;
```

Json code for humidity:

global.set('hum' , msg.payload.humidity)
msg.payload = msg.payload.humidity
return msg;

Json code for temperature:

global.set('temp' , msg.payload.temperature)
msg.payload = msg.payload.temperature
return msg;

The output can be seen by connecting the API Key, Device ID, Device type in the IBM out node.

