Project Development - Delivery of Sprint – 2

Date	5 November 2022
Team ID	PNT2022TMID15629
Project Name	Project – Smart Farmer - IoT Enabled Smart Farming Application

Building Project

Connecting IoT Simulator to IBM Watson IoT Platform

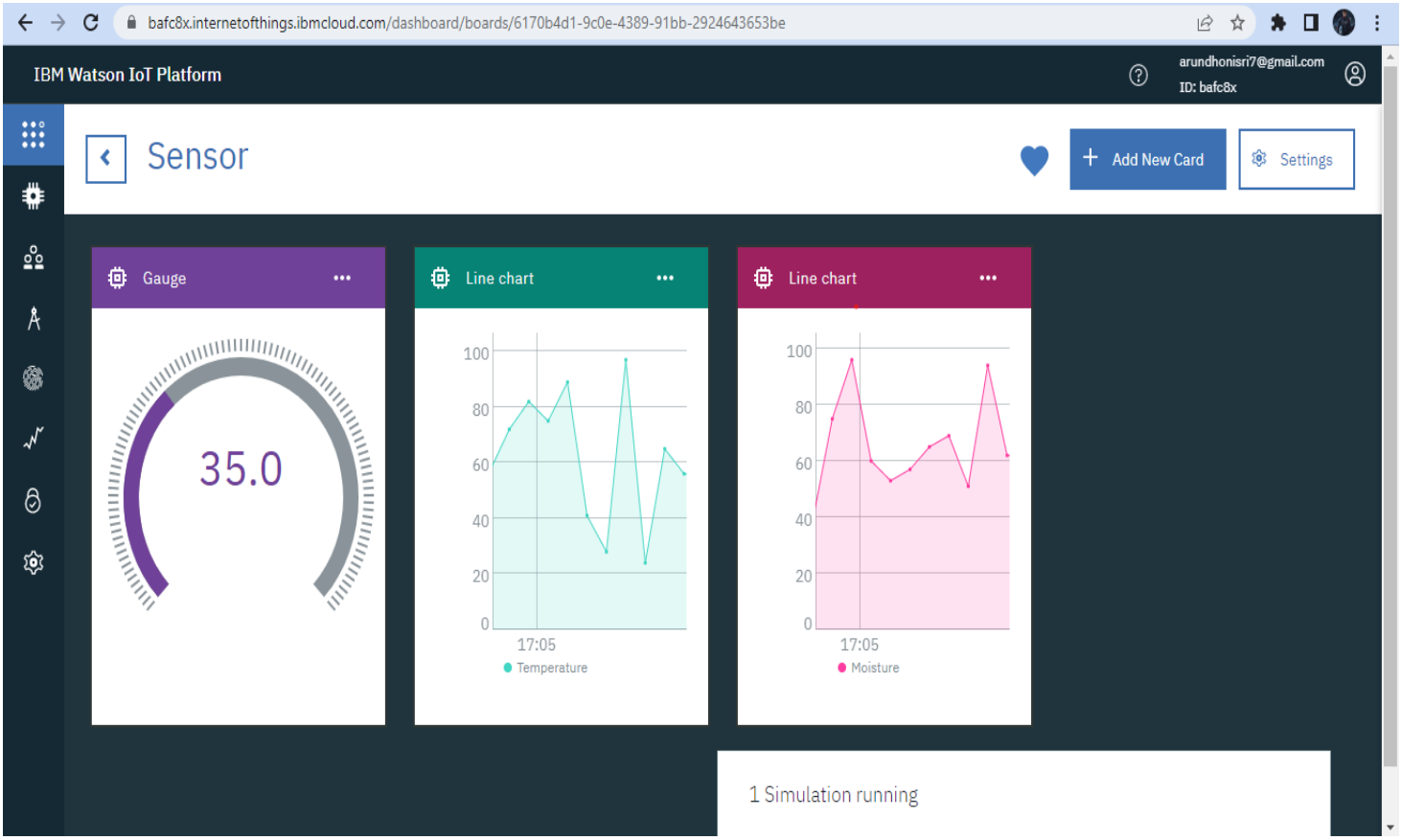
- Open link provided in below image
- Give the credentials of your device in IBM Watson
- Platform Click on connect

My credentials given to simulator are:

API Key: **a-bafc8x-kaa3fcpilc**

Device type: **Smart-Farmer**

Token: **GKMuuw2Bkc4TVBS7n?**

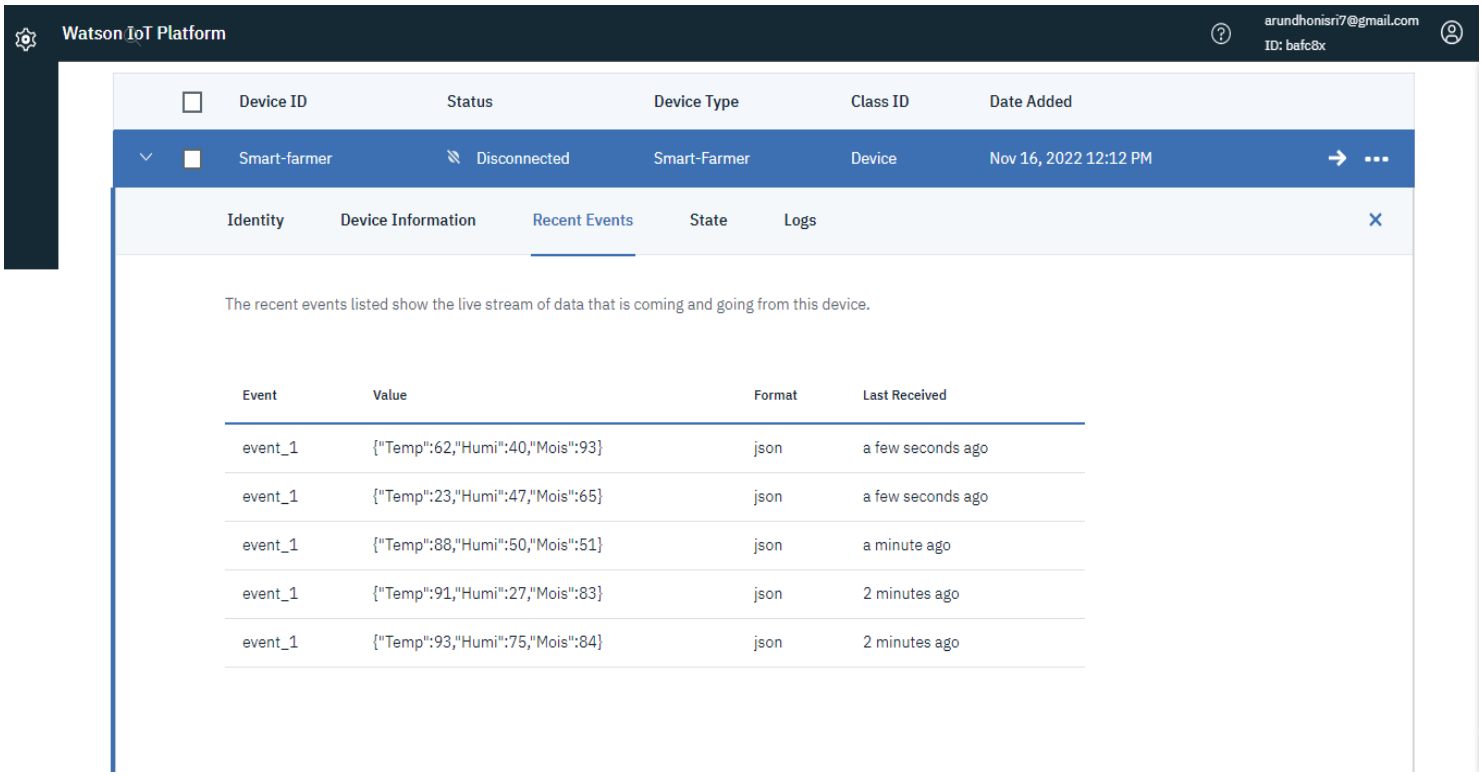


You can see the received data in graphs by creating cards in Boards tab

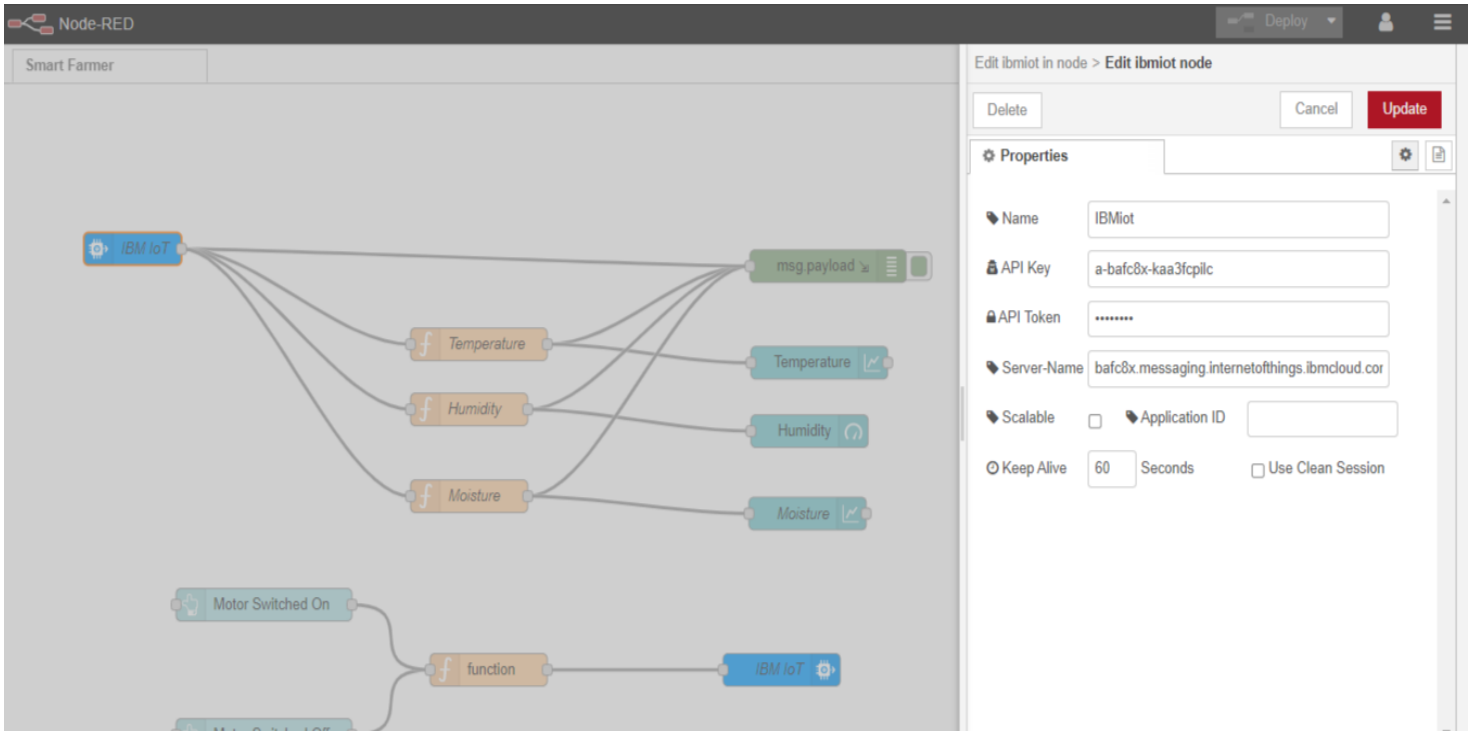
➢ You will receive the simulator data in cloud.

➢ You can see the received data in Recent Events under your device.

➢ Data received in this format(json).



Configuration of Node-Red to collect IBM cloud data



- The node IBM IoT App In is added to Node-Red workflow. 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 Node-Red receives data from the deviceDisplay the data using debug node for verification
- Connect function node and write the Java script code to get each reading separately.
- The Java script code for the function node is:

```
msg.payload = msg.payload.Temp

global.set('t', msg.payload)

return msg:
```

- Finally connect Gauge nodes from dashboard to see the data in UI.

Nodes Connected in Following Manner: