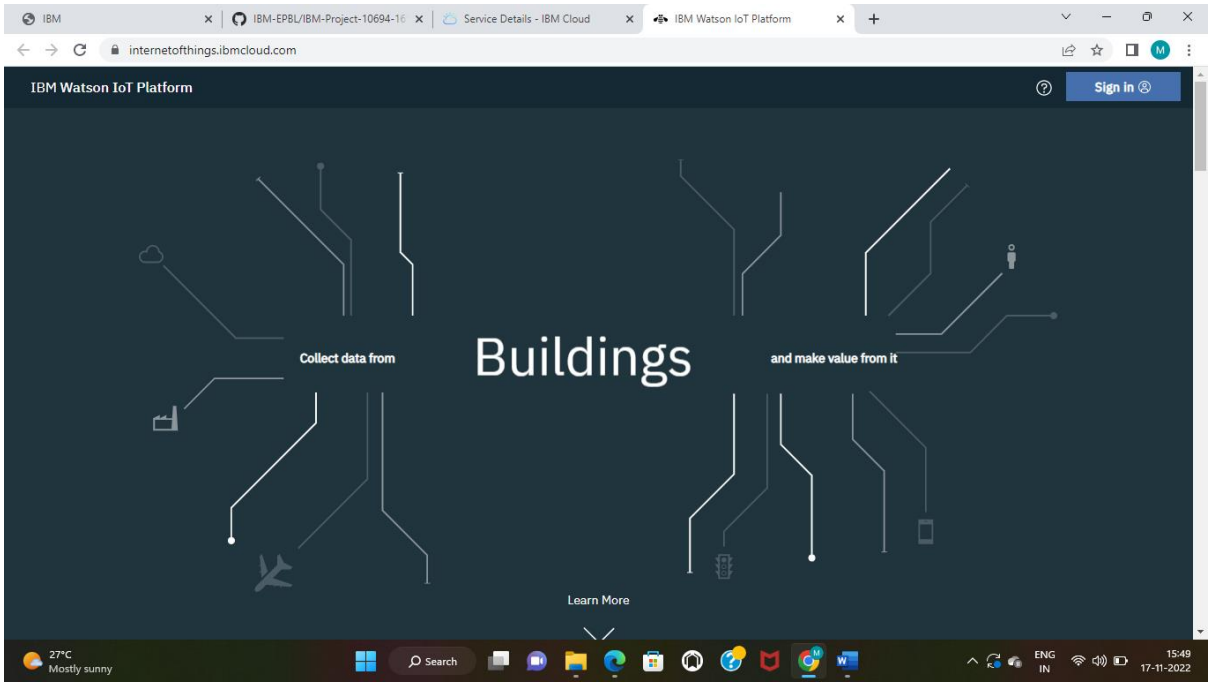
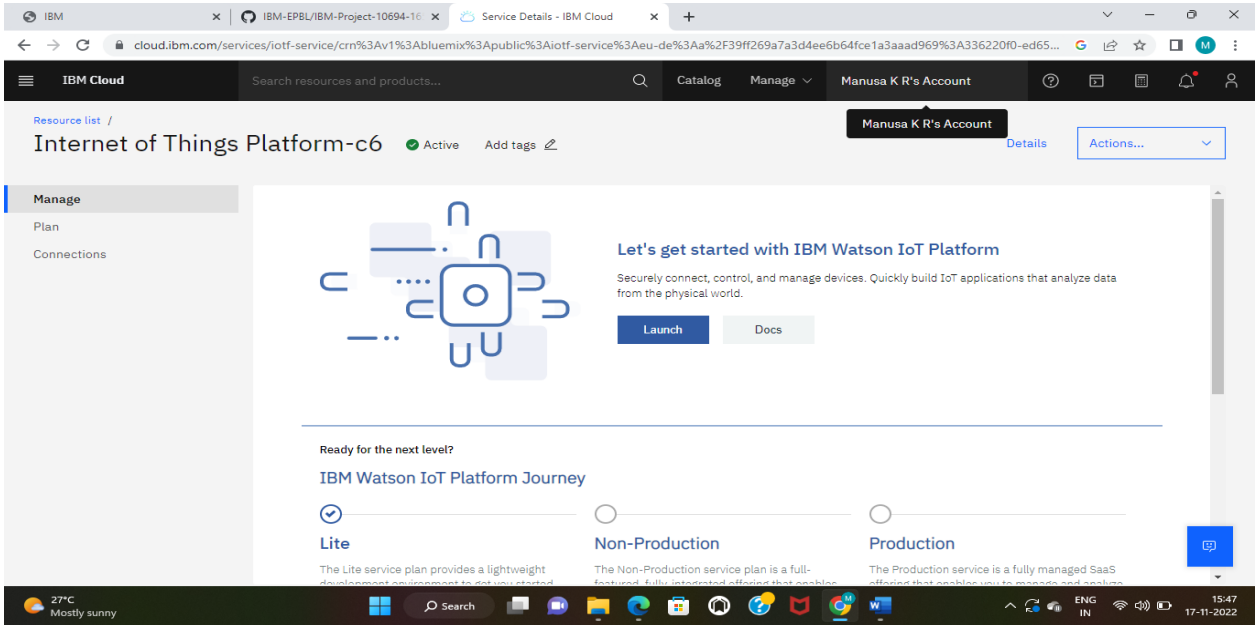
SENDING DATA FROM RASPBERRY-PI TO IBM WATSON

DATE	**5 NOVEMBER**
TEAM ID	**PNT2022TMID15063**
PROJECT TITLE	**GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES**

Step-1: Create a device in IBM Watson

➢ Firstly, login into your IBM-Bluemix account with your e-mail ID and Password.

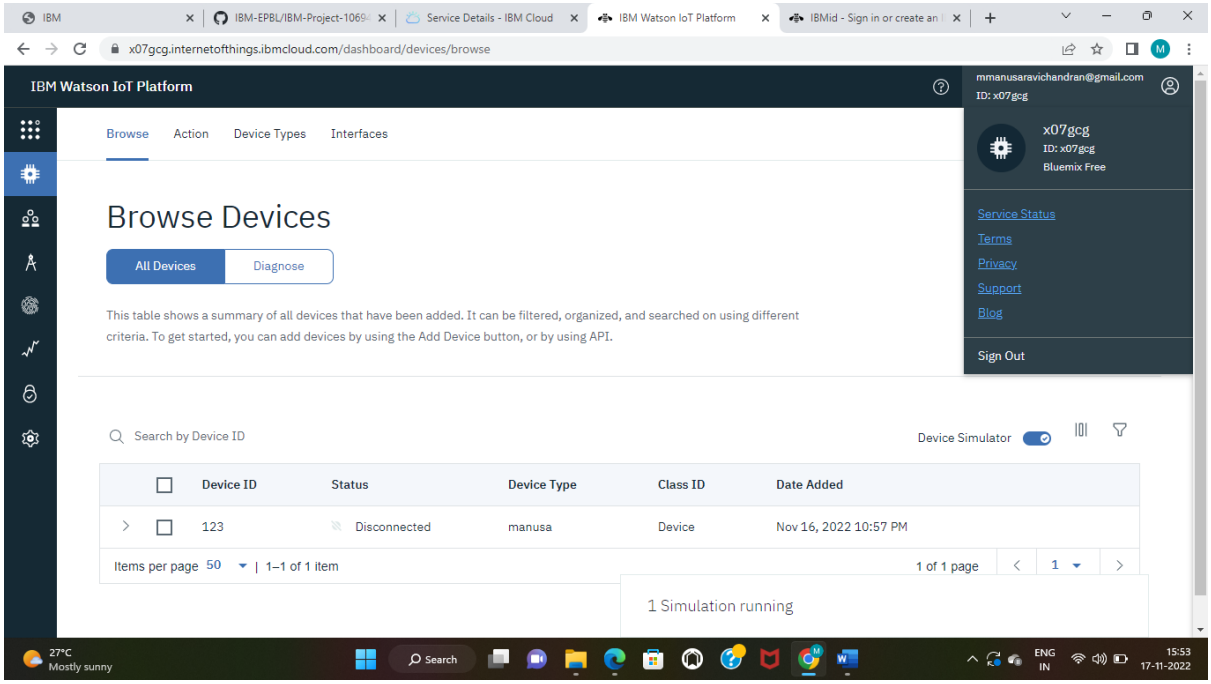




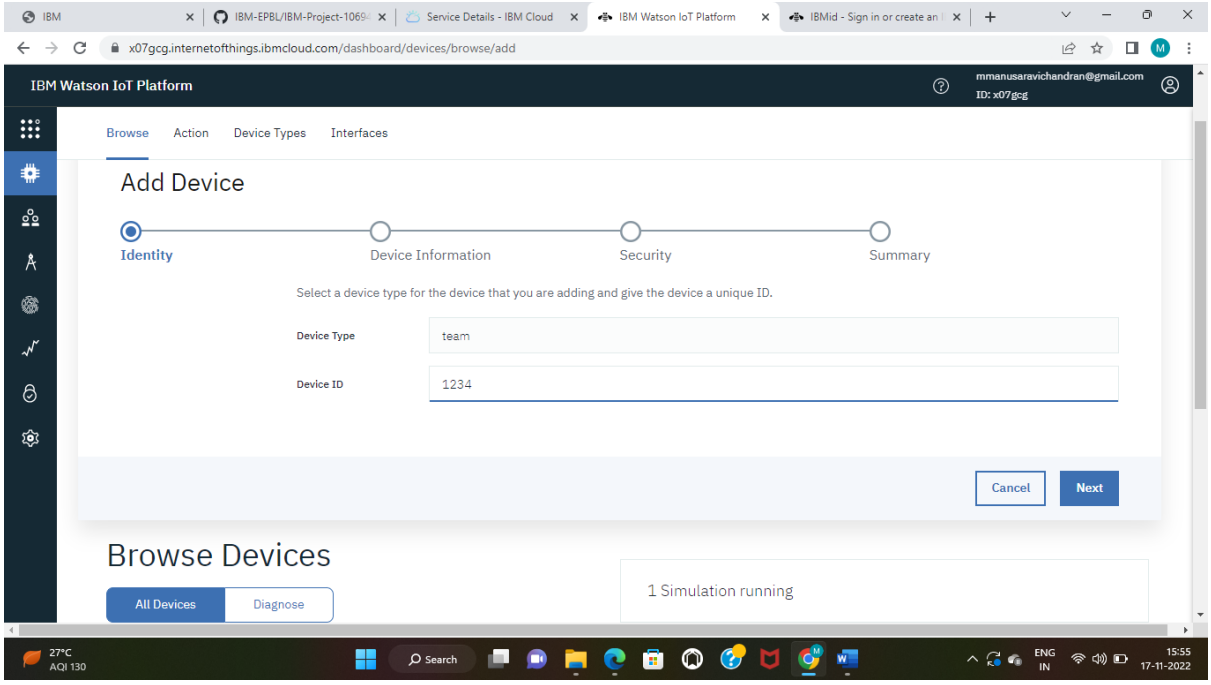
➢ Click on Launch

➢ Dashboard of IBM Watson IoT platform

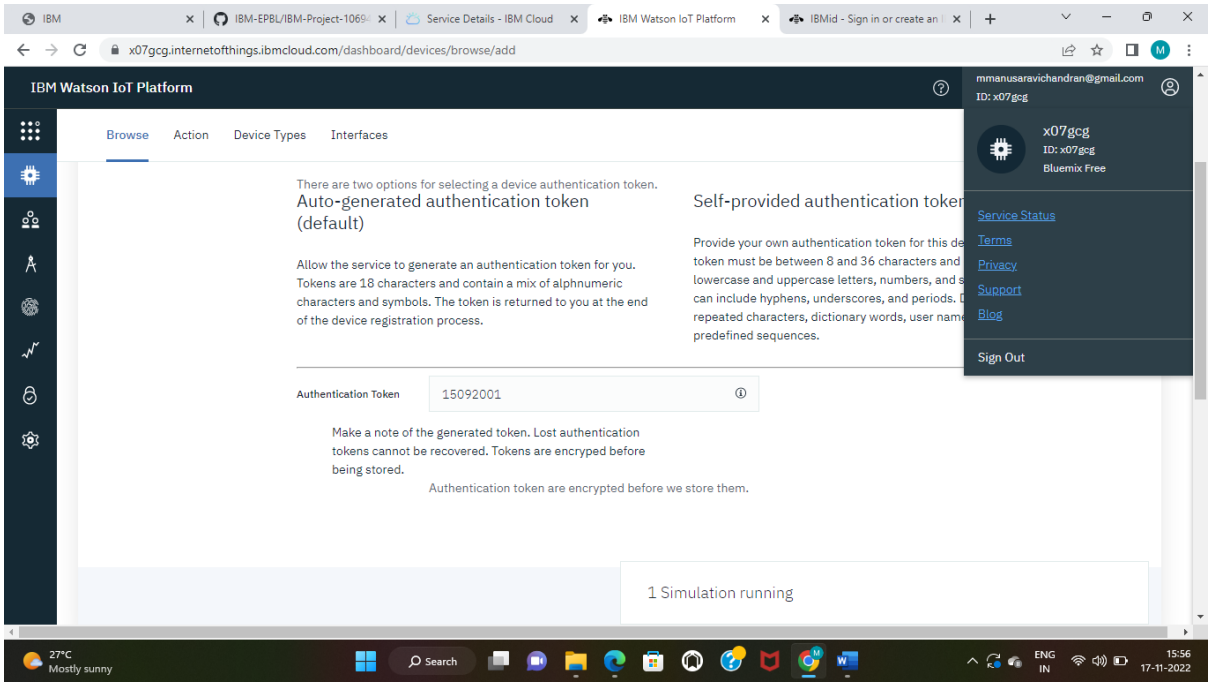
➢ Click on Add device



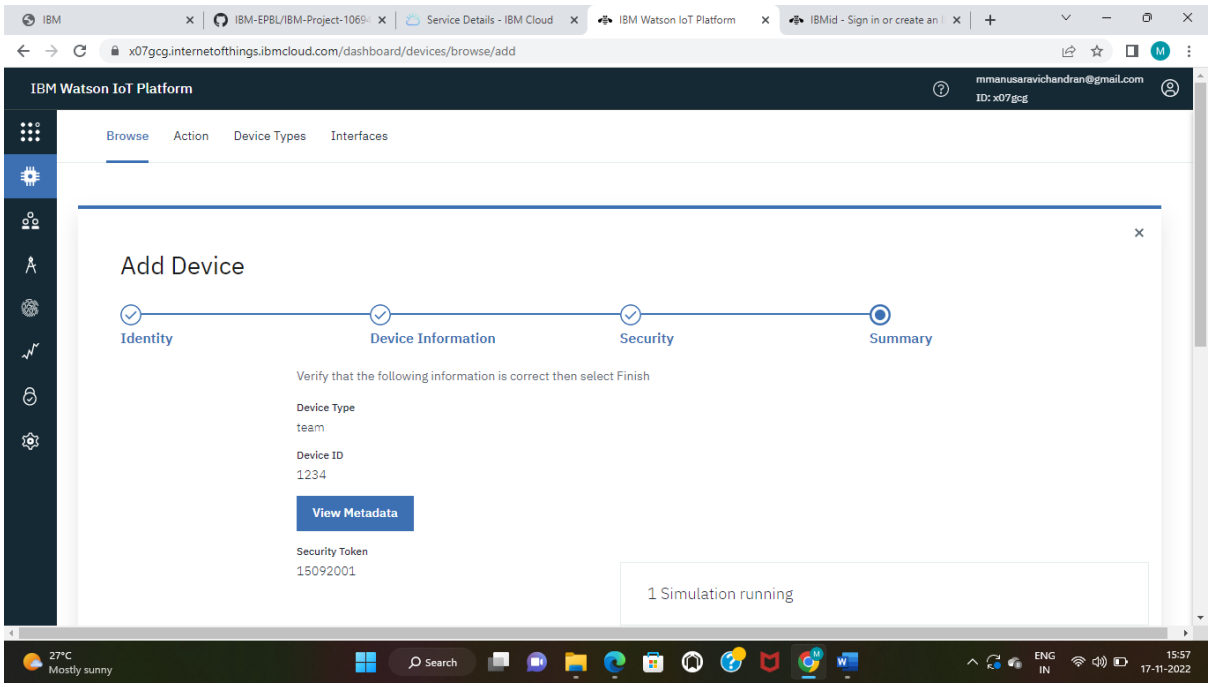
➢ After click on Add device this page will open



➢ Go to device type and fill the details.

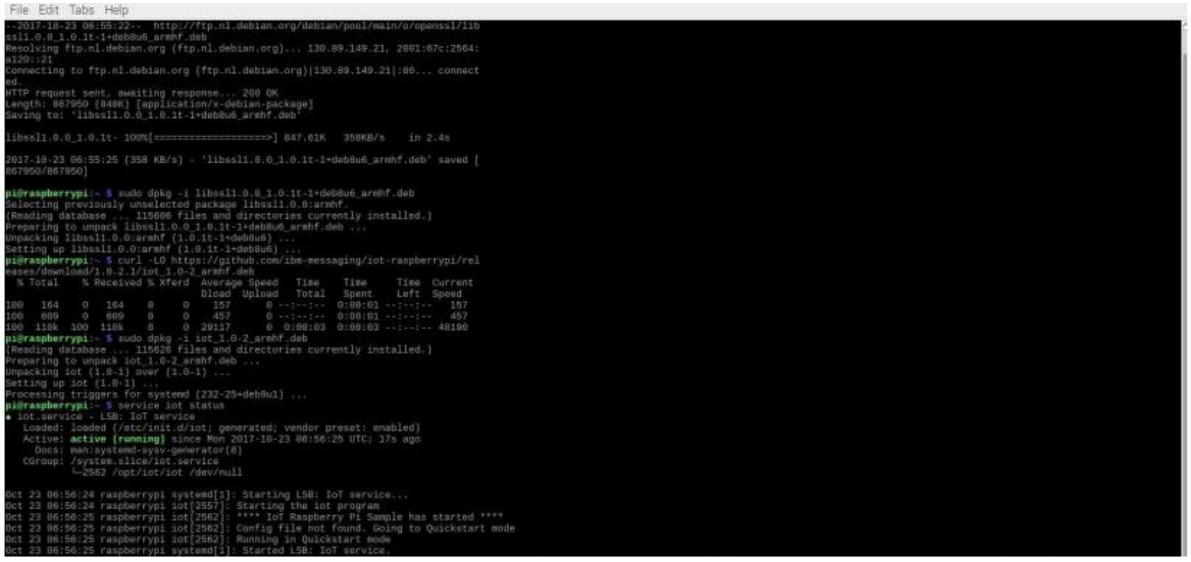


➢ Click on Finish

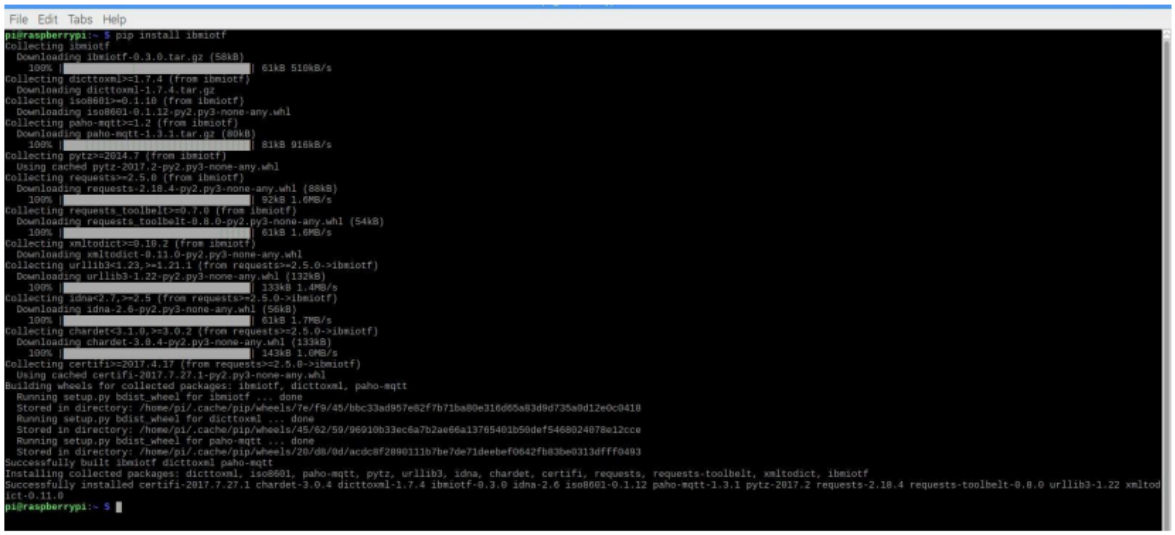


STEP-2: INSTALLING NECESSARY PACKAGES ON YOUR PI:

- Now we are going to install necessary packages on your pi.
- Open your terminal in your pi and type the following commands :curl -LO https://github.com/ibm-messaging/iot-raspberrypi/releases/download/1.0.2.1/io t_1.0-2_armhf.deb sudo dpkg -i iot_1.0-2_armhf.deb service iot status

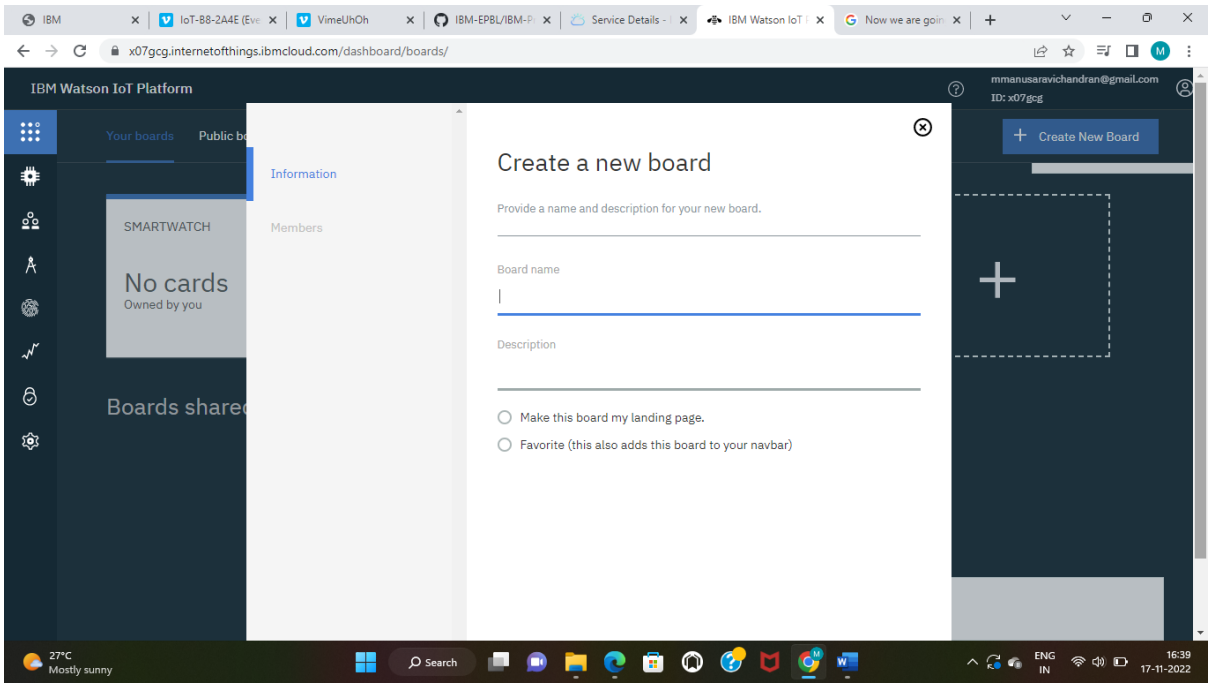


➢ Then open your terminal and type pip install ibmiotf

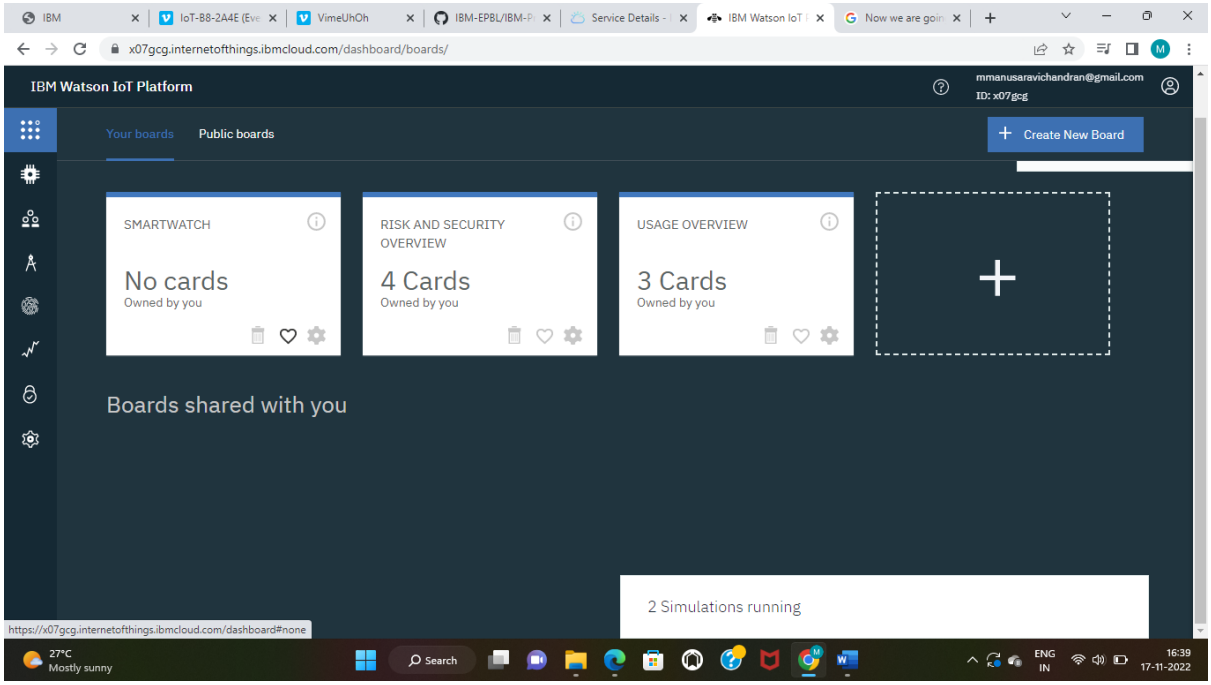


Step-3: Checking your data sent on IBM Bluemix

After you have sent your sensors data you can check whether it is received at your iot platform :Just look at the image below and if u see the same wifi kind of symbol on your created device then your data is being received.



Step-4: Creating boards and cards for visualization of data:

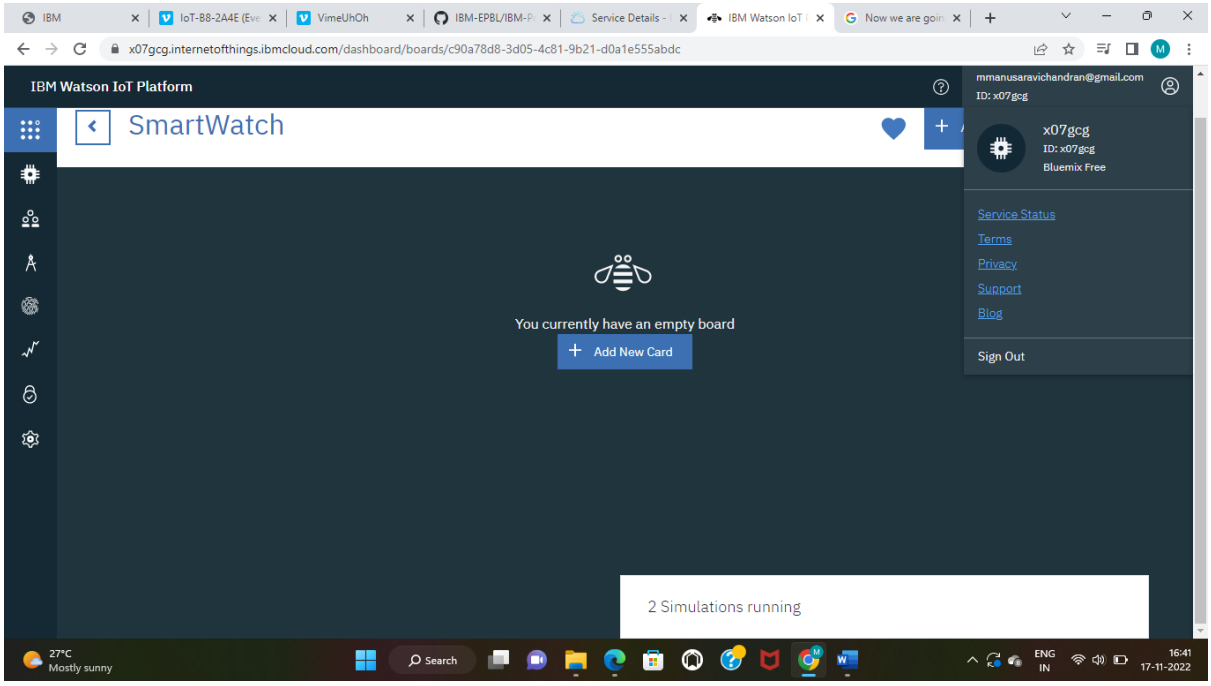


➢ Click on Create a new board to create a board .

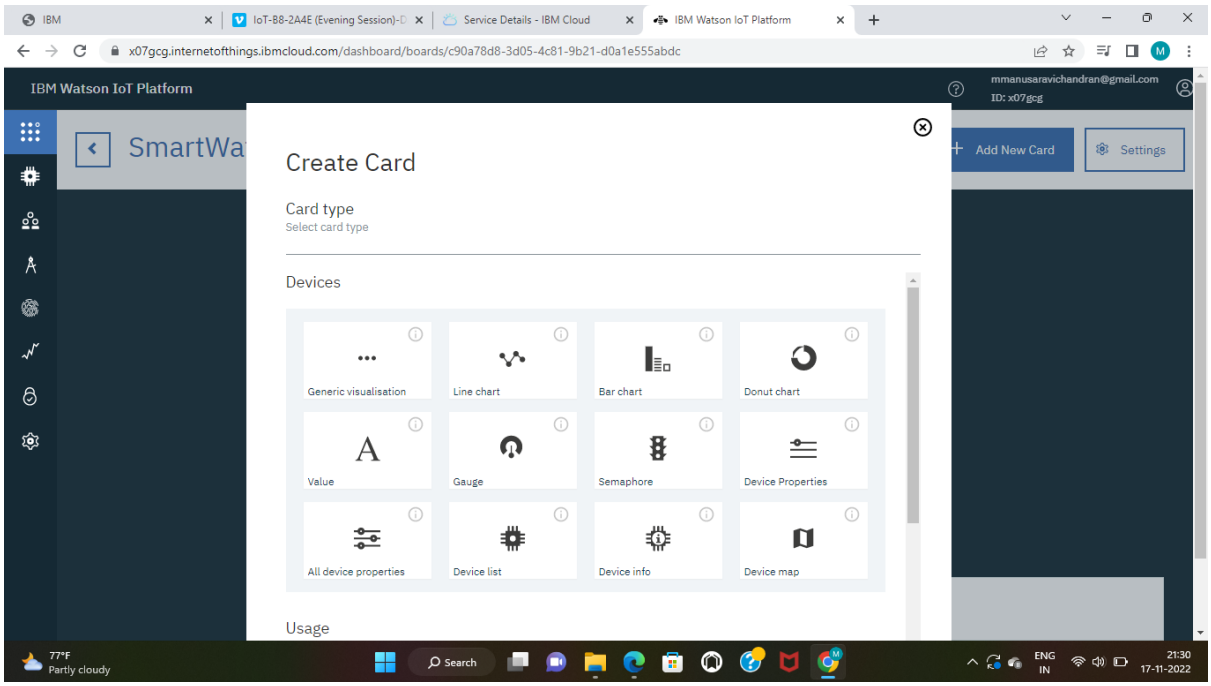
➢ Then click on Next you get the below window then again click on Submit

➢ Then double click on your boards name which you have created.

➢ Click on Add New Card



➢ Select the type of Graph u want accordingly and click next



➢ You get the below window, choose the Device and click on Next

➢ Select the event, properly to be visualized on your graph and click next. In my case it is Random Pressure.

➢ Then select the size of the graph and color of the graph board you want and click next