

CREATE IBM WATSON IOT PLATFORM AND DEVICE CREATE IBM WATSON IOT PLATFORM AND DEVICE

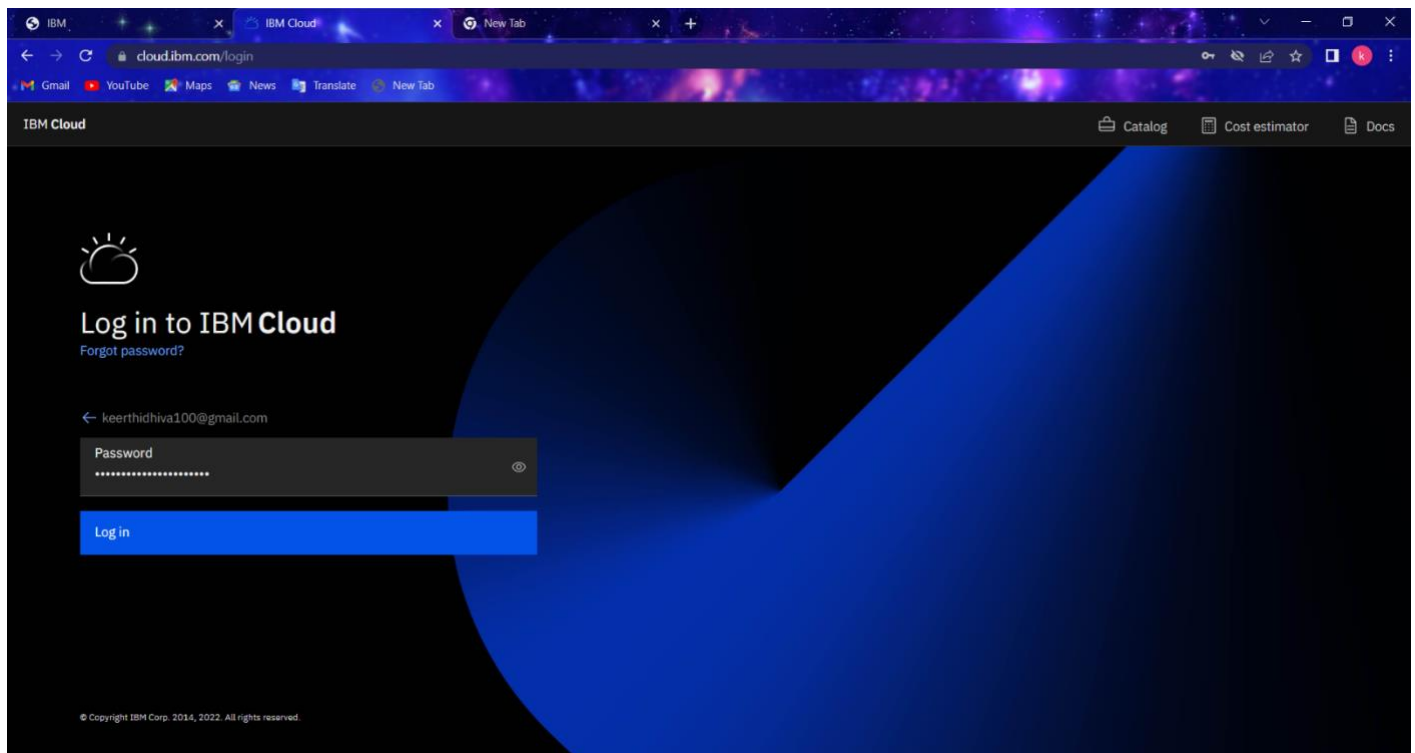
Date	25 October 2022
Team ID	PNT2022TMID05234
Project Name	Smart Solutions for Railways

AIM:

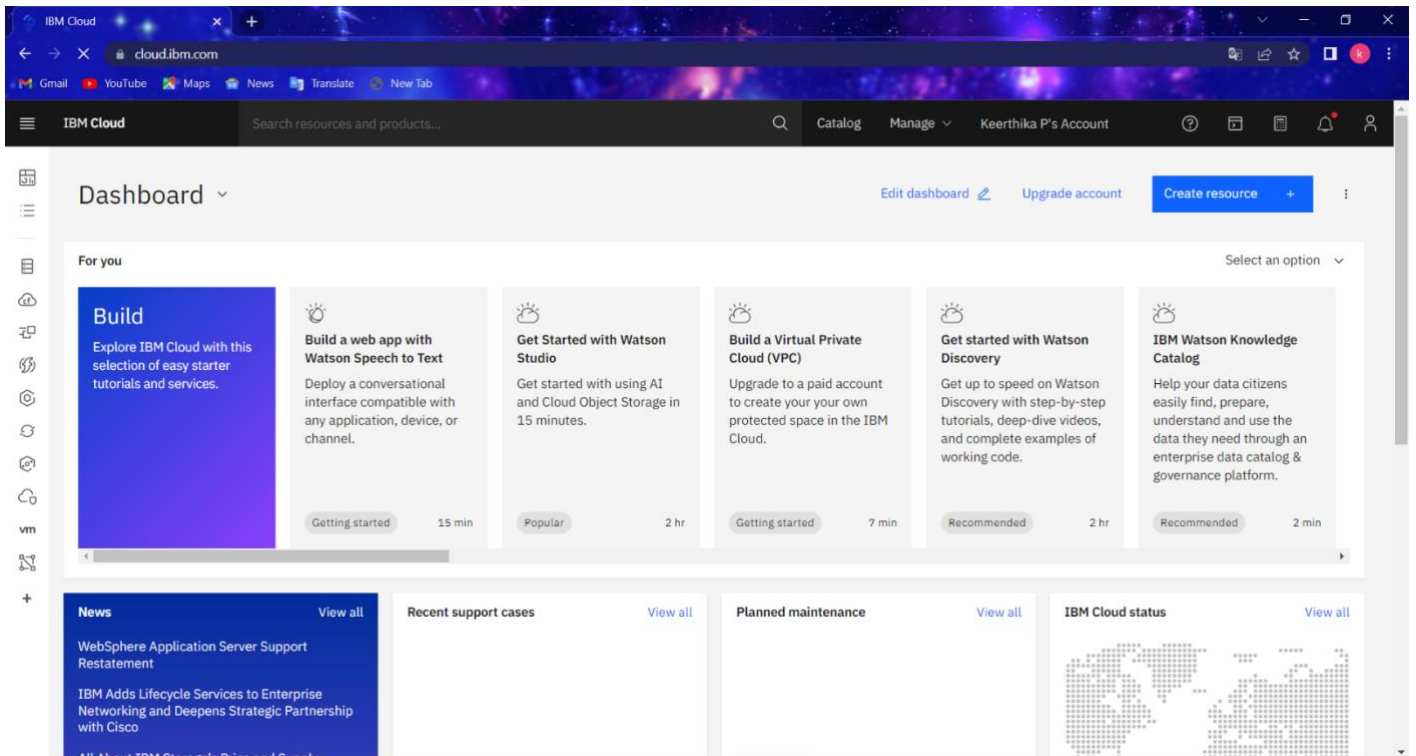
To create the IBM Watson IoT platform and device.

Steps to be followed

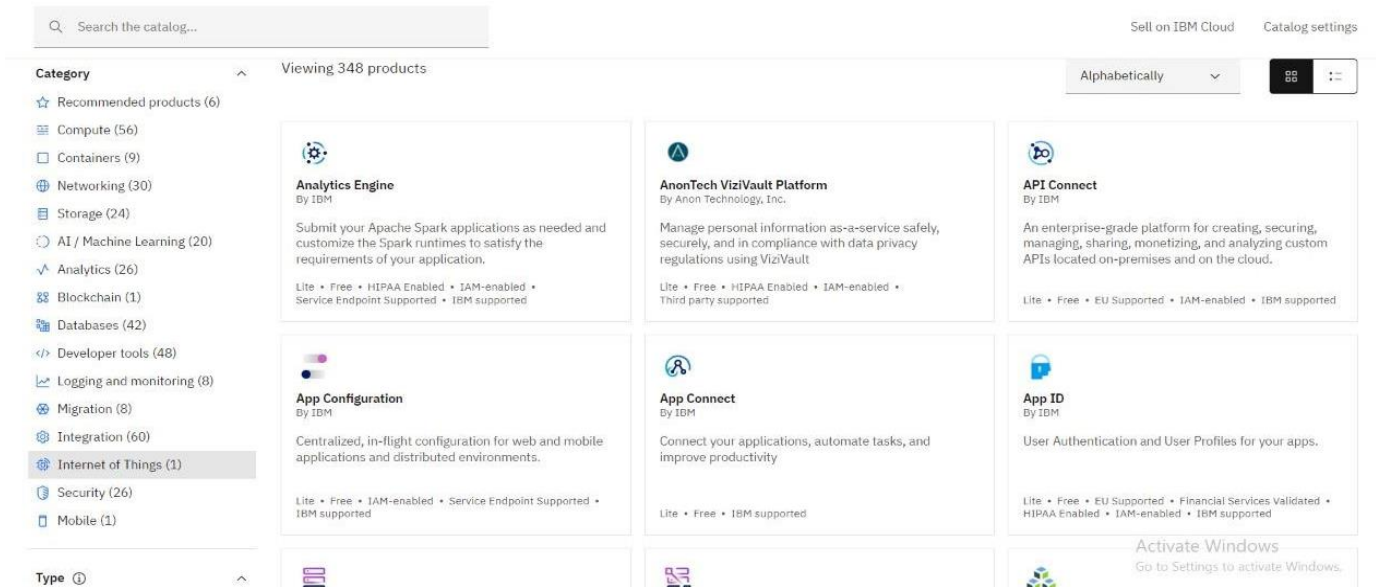
Step 1: Firstly, create an IBM cloud account with IBM id and password.



Step 2: Home page of IBM cloud.



Step 3: Click on the catalog on the top.



Step 4: Click on IoT in the category mentioned.

Step 5: Click on Internet of Things Platform.

Search the catalog...

Sell on IBM Cloud Catalog settings

Internet of Things x

Internet of Things

Alphabetically

Type ①

- ☒ All
- ☐ Services
- ☐ Software
- ☐ Professional services

Provider

- ☐ IBM (1)

Pricing plan ①

- ☐ Lite
- ☐ Free

Compliance

- ☐ IAM-enabled

Viewing 1 product

Filters: Internet of Things x Clear all

Internet of Things Platform
By IBM

This service is the hub of all things IBM IoT, it is where you can set up and manage your connected devices so that your apps can access their live and historical data.

Lite • Free • IAM-enabled • IBM supported

[Learn more](#)

Activate Windows
Go to Settings to activate Windows.

Step 6: If already a lite is present delete it else u can't create another.

Internet of Things Platform - IBM Cloud

cloud.ibm.com/catalog/services/internet-of-things-platform

IBM Cloud Search resources and products... Catalog Manage Keerthika P's Account

Internet of Things Platform

This service is the hub of all things IBM IoT, it is where you can set up and manage your connected devices so that your apps can access their live and historical data.

Create About

Type Service

Provider IBM

Last updated 08/15/2022

Category Internet of Things

Compliance IAM-enabled

Location Frankfurt London Dallas Washington DC

Related links Docs

Select a location

Frankfurt (eu-de)

Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

Plan	Features	Pricing
Lite	Includes up to 500 registered devices, and a maximum of 200 MB of each data metric Maximum of 500 registered devices Maximum of 500 application bindings Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed	Free

The Lite service plan for Internet of Things Platform includes up to 500 registered devices, and a maximum of 200 MB each of.

Summary

Internet of Things Platform Free

Location: Frankfurt

Plan: Lite

Service name: Internet of Things Platform-58

Resource group: Default

Existing Lite plan instance

You can have only 1 Lite plan instance of this service per resource group. [Delete](#) your current Lite plan instance in Default resource group to create a new one, or [view the existing instance](#).

☐ I have read and agree to the following license agreements: [Terms](#)

Create

Add to estimate

Step 7: Tick agreements and then click on create.

Step 8: Click on the launch button.

Resource list /

Internet of Things Platform-m7 Active [Add tags](#)

[Details](#) [Actions...](#)

Manage

- Plan
- Connections

Let's get started with IBM Watson IoT Platform

Securely connect, control, and manage devices. Quickly build IoT applications that analyze data from the physical world.

[Launch](#) [Docs](#)

Ready for the next level?

IBM Watson IoT Platform Journey

- Lite**

The Lite service plan provides a lightweight development environment to get you started with the connectivity capabilities of Watson IoT Platform.

• Free
- Non-Production**

The Non-Production service plan is a full-featured, fully-integrated offering that enables you to explore Watson IoT Platform to see how the service can fit into your IoT environment.

• Starts at \$500 per month
- Production**

The Production service is a fully managed SaaS offering that enables you to manage and analyze enterprise IoT data.

• Includes IBM Service & Support

Step 9: After clicking on the launch button this tab will open.

Service Details • IBM Cloud

internetofthings.ibmcloud.com

IBM Watson IoT Platform [Sign in](#)

Collect data from **Buildings** and make value from it

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To provide a smooth navigation, your cookie preferences will be shared across the IBM web domains listed [here](#).

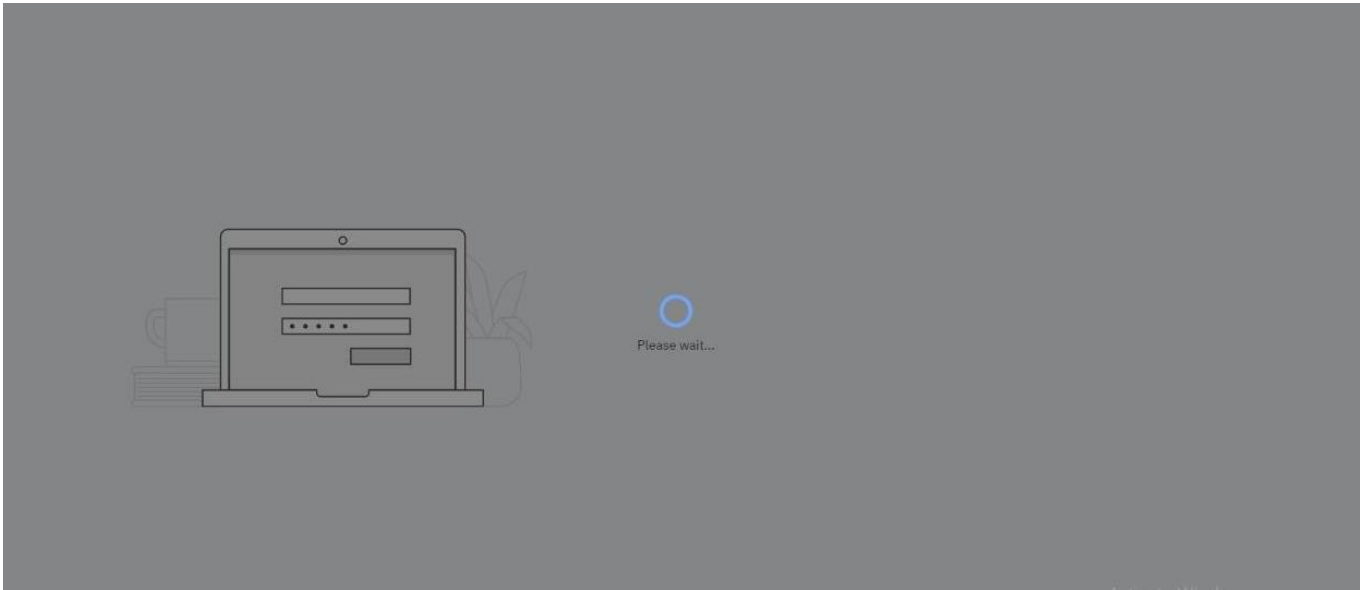
[Accept all](#)

[Required only](#)

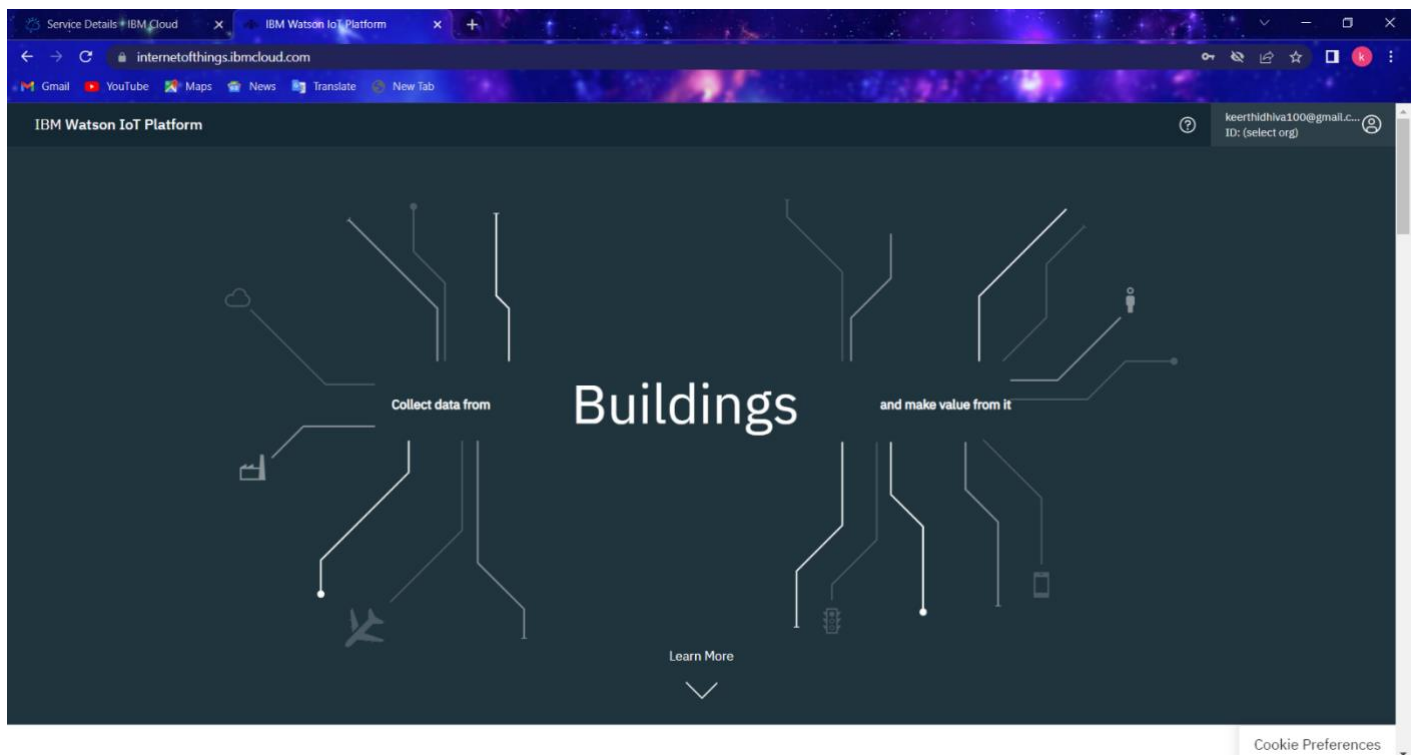
Step 10: Click on Sign in.

Step 11: Fill the login details.

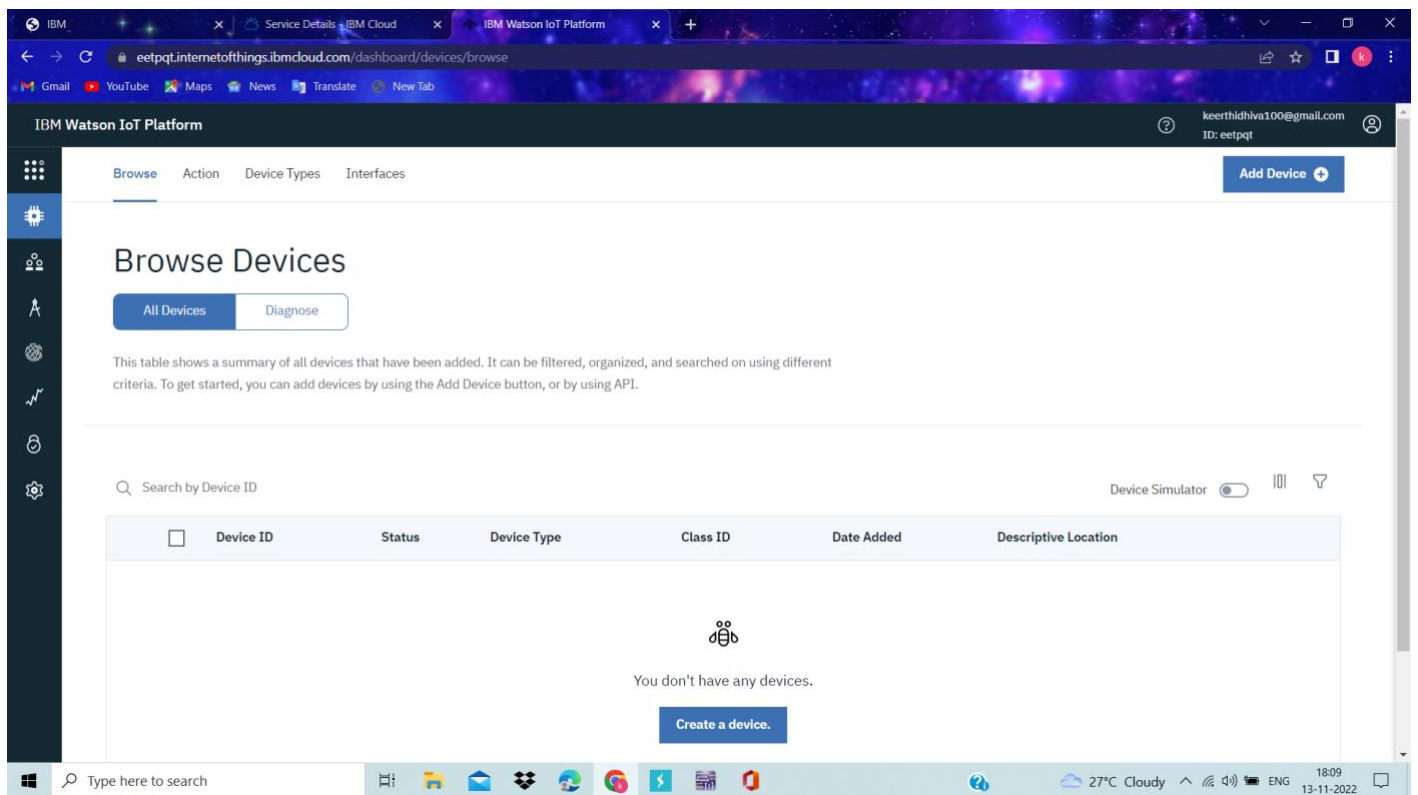
Step 12: Sign in on progress.



Step 13: Once it is logged in, the name will be displayed click on it and then click on Bluemix Free.

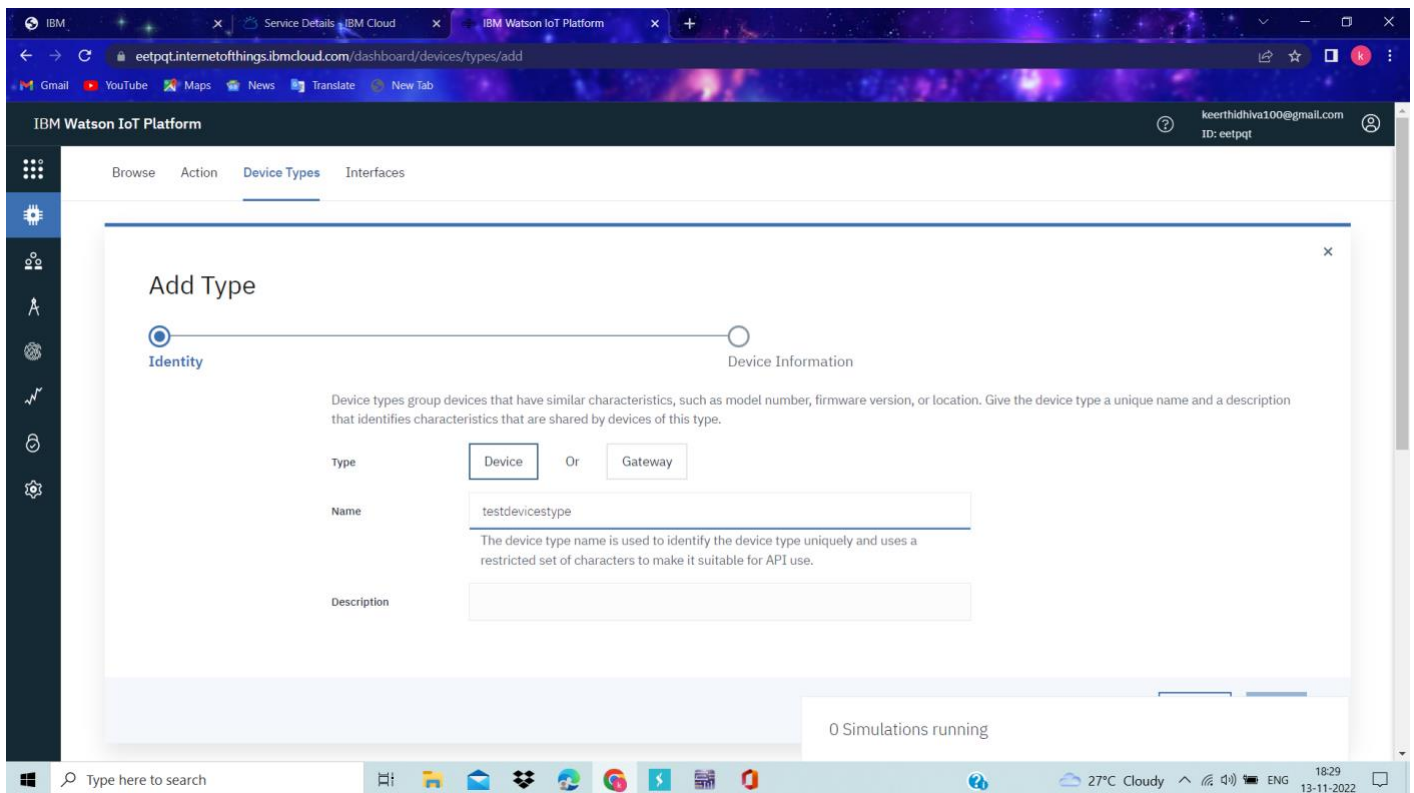


Step 14: This is the IBM Watson platform.

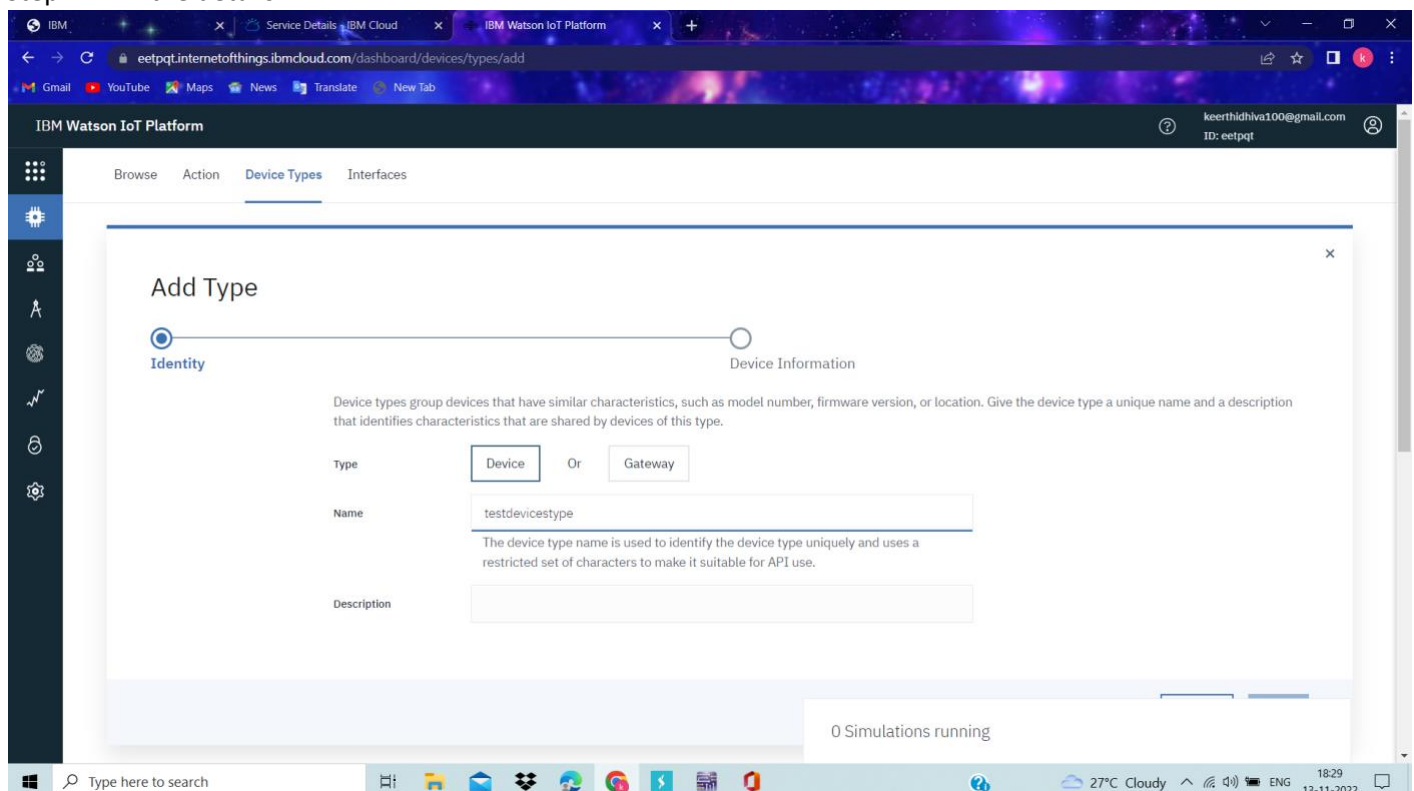


Step 15: Click on Add Device.

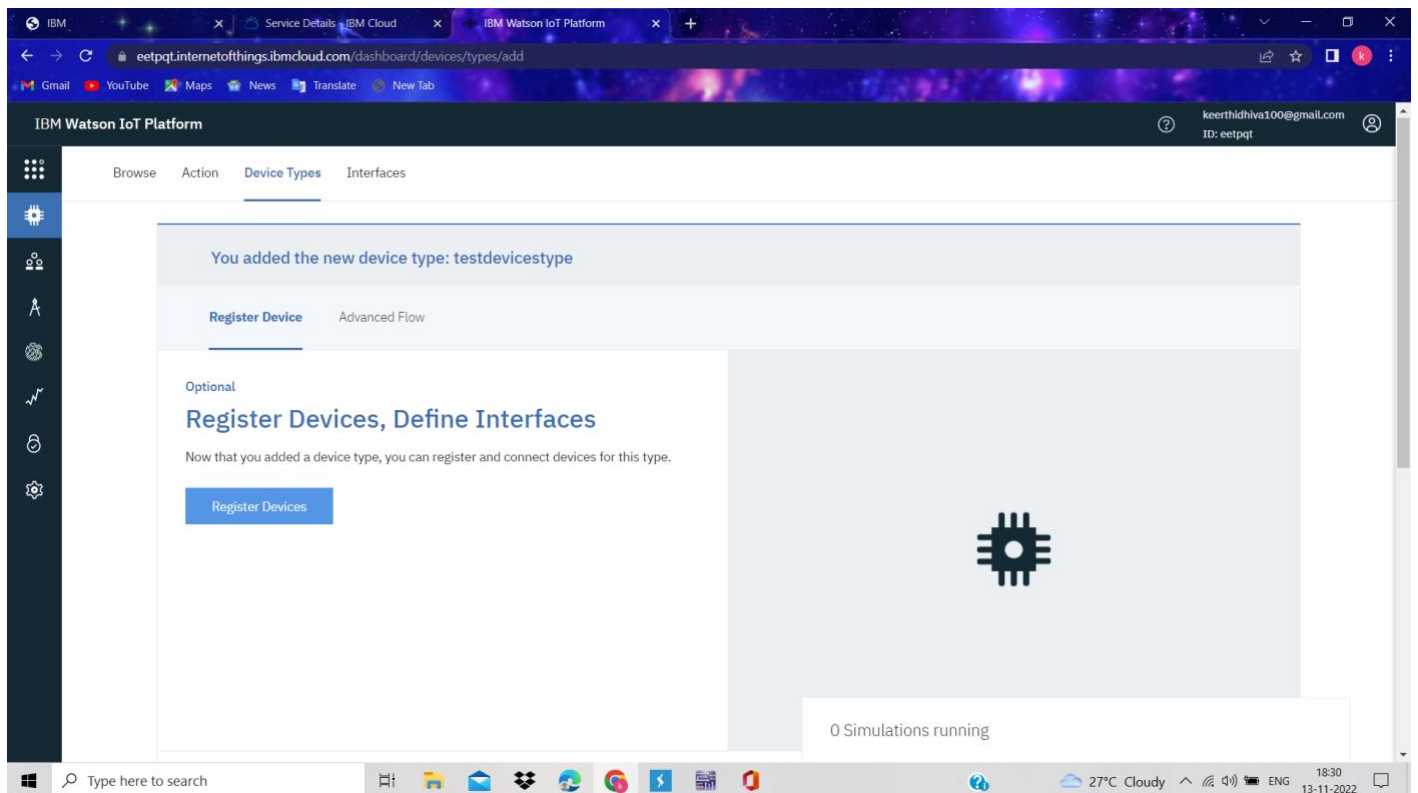
step 16: Click on Device Type.



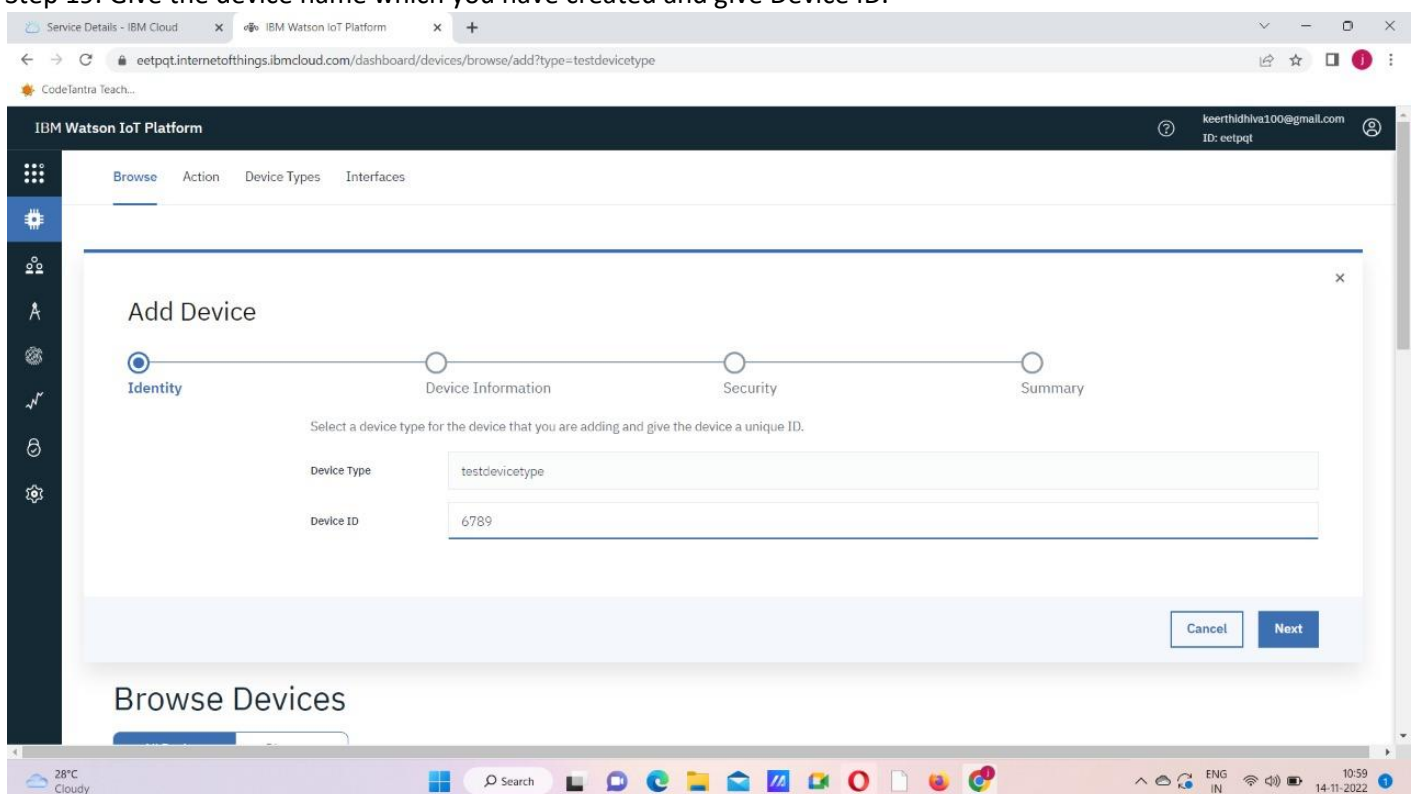
Step 17: Fill the details.



Step 18: Click on Register Devices.



Step 19: Give the device name which you have created and give Device ID.

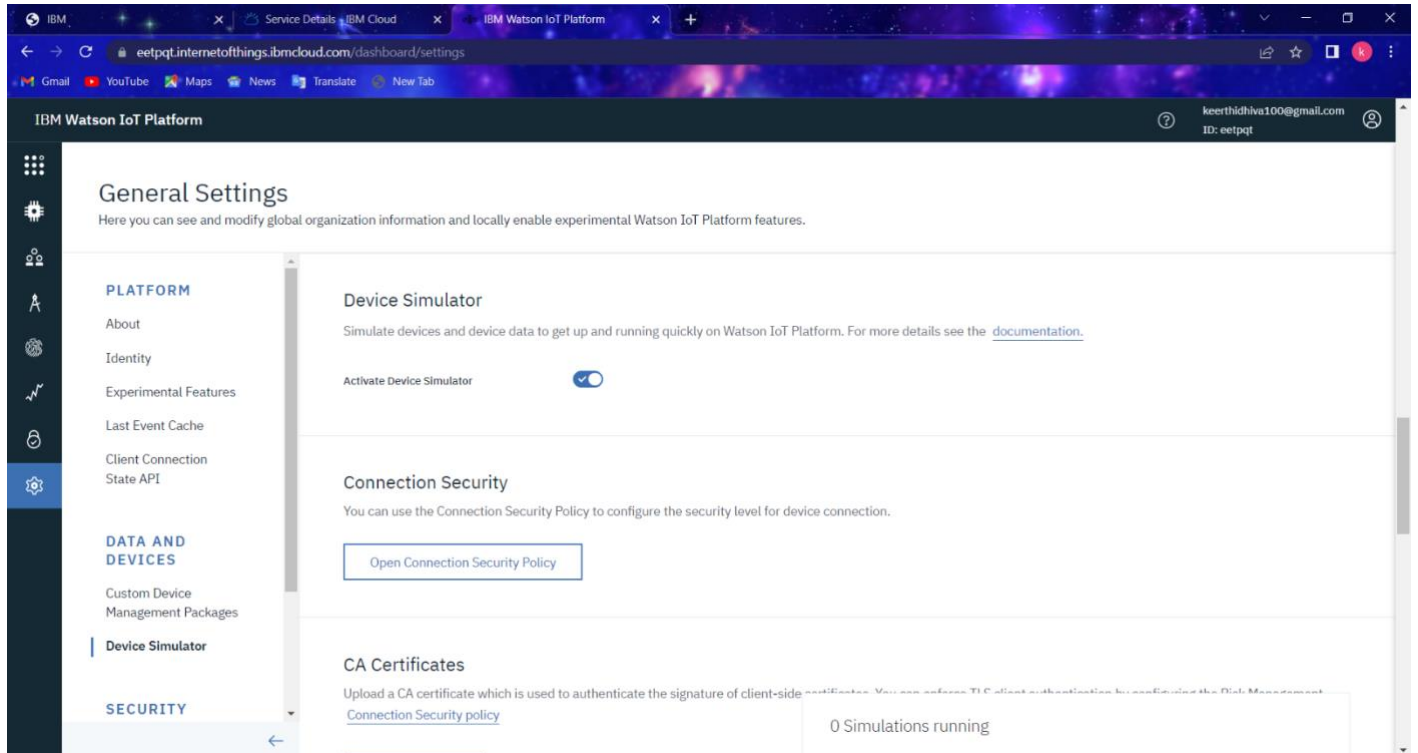


Step 20: After giving all the data, Click on Finish.

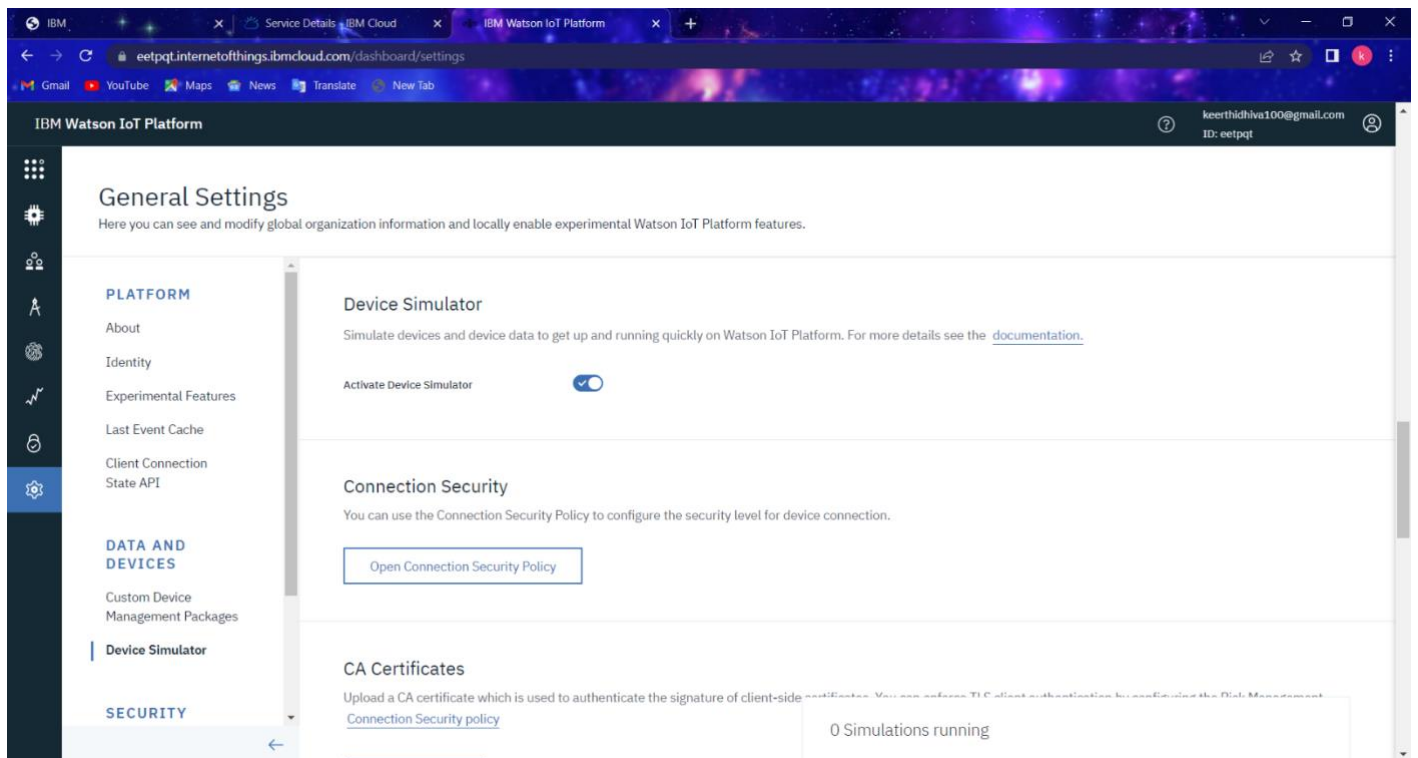
Step 21: After creating the device, Copy the Device Credentials.

Step 22: Go to Setting, click on Data and Devices.

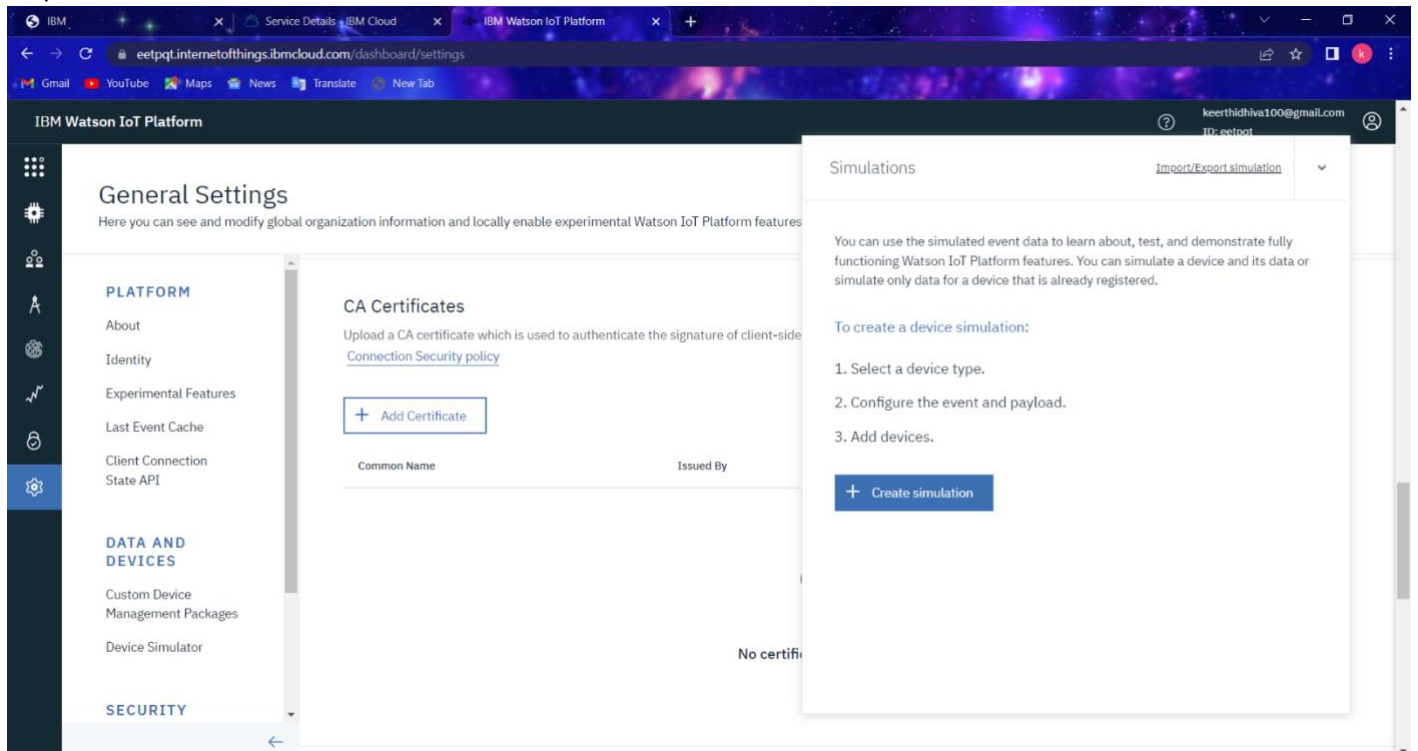
Step 23: Then click on Device Simulator and Activate Device Simulator.



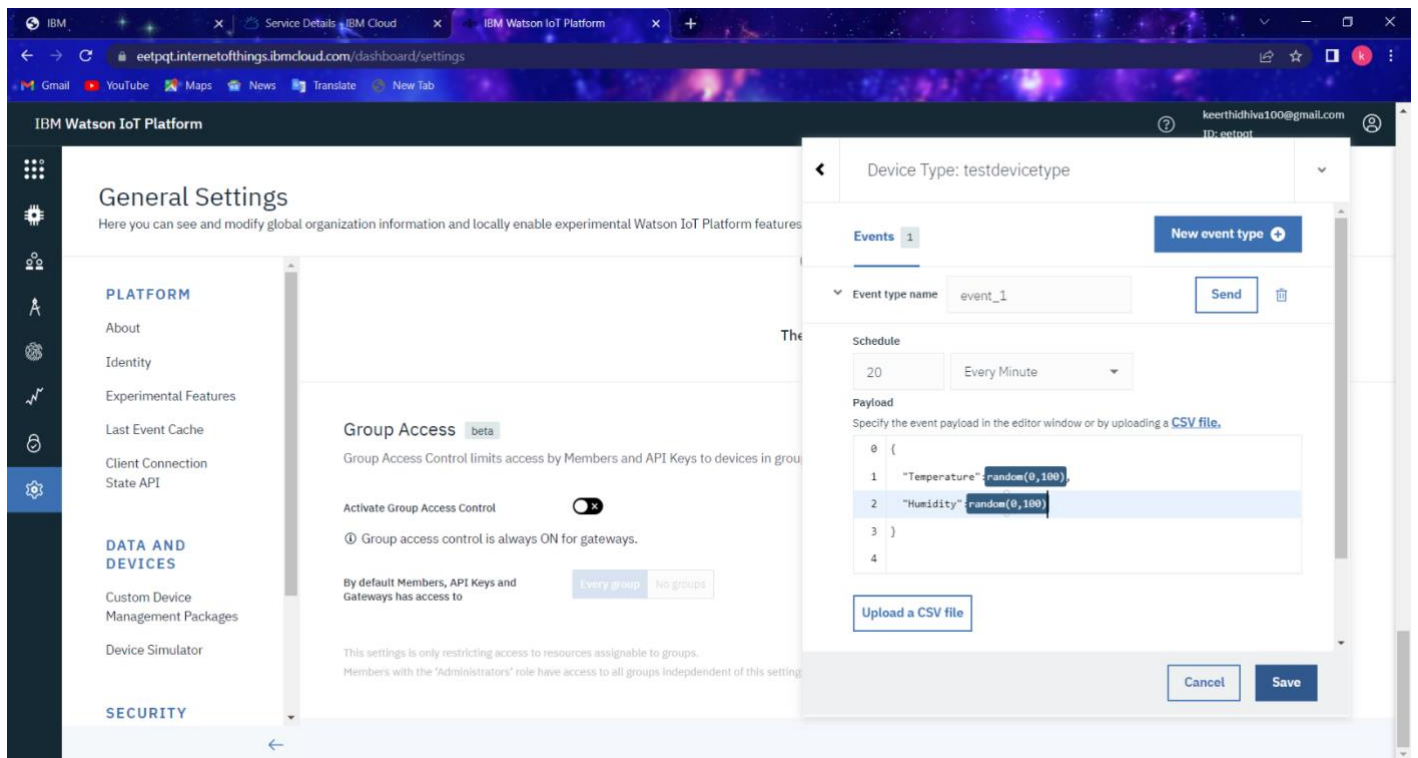
Step 24: Click on the pop-up screen on the right side.



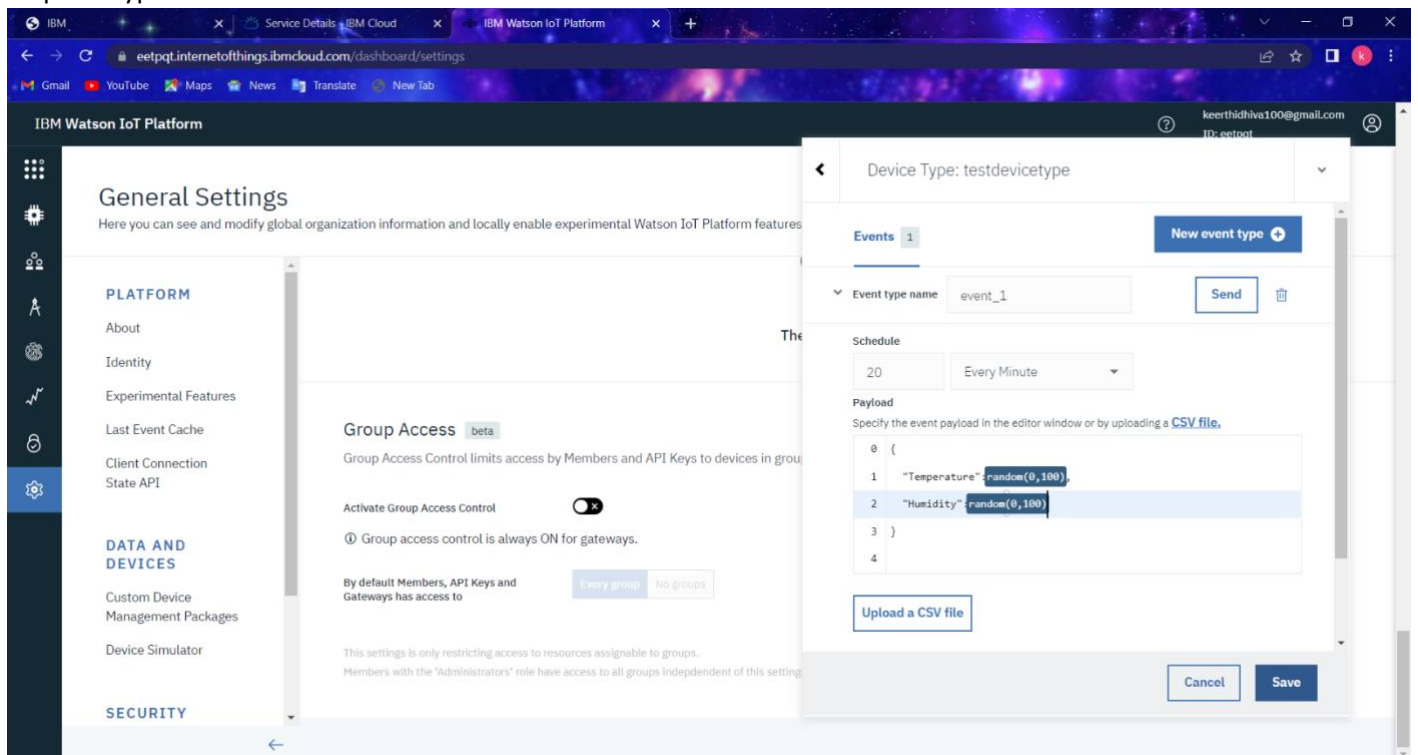
Step 25: Click on Create Simulation.



Step 26: Choose the Device.



Step 27: Type the code.



Step 28: Click on Use Registered Device and choose the device and run it.

Step 29: Go to devices then click on devices and check the recent events whether the code is running or not.

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains various icons for navigation. The main content area displays details for a device with ID '6789', which is 'Disconnected'. The 'Recent Events' tab is active, showing a table of events:

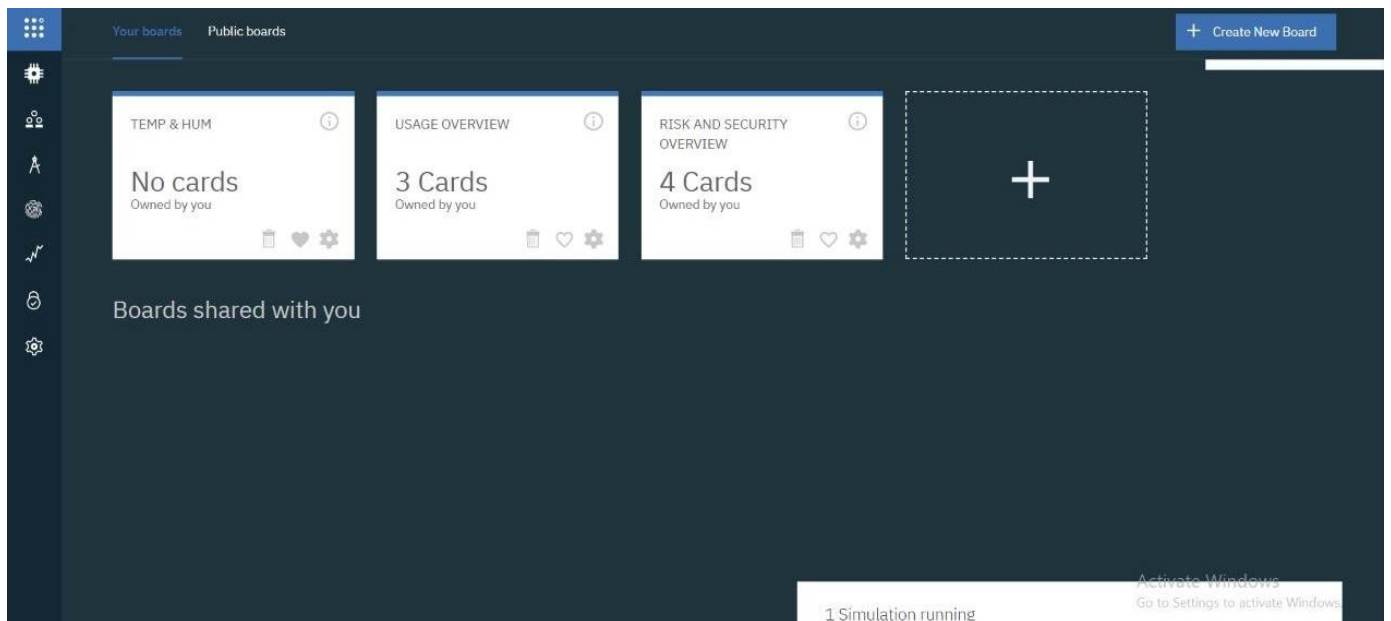
Event	Value	Format	Last Received
event_1	{"Temperature":99,"Humidity":95}	json	a few seconds ago
event_1	{"Temperature":56,"Humidity":46}	json	a few seconds ago
event_1	{"Temperature":59,"Humidity":0}	json	a few seconds ago

Below the table, it indicates 'Items per page 50' and '1-3 of 3 items'. At the bottom right, a status bar shows '1 Simulation running'.

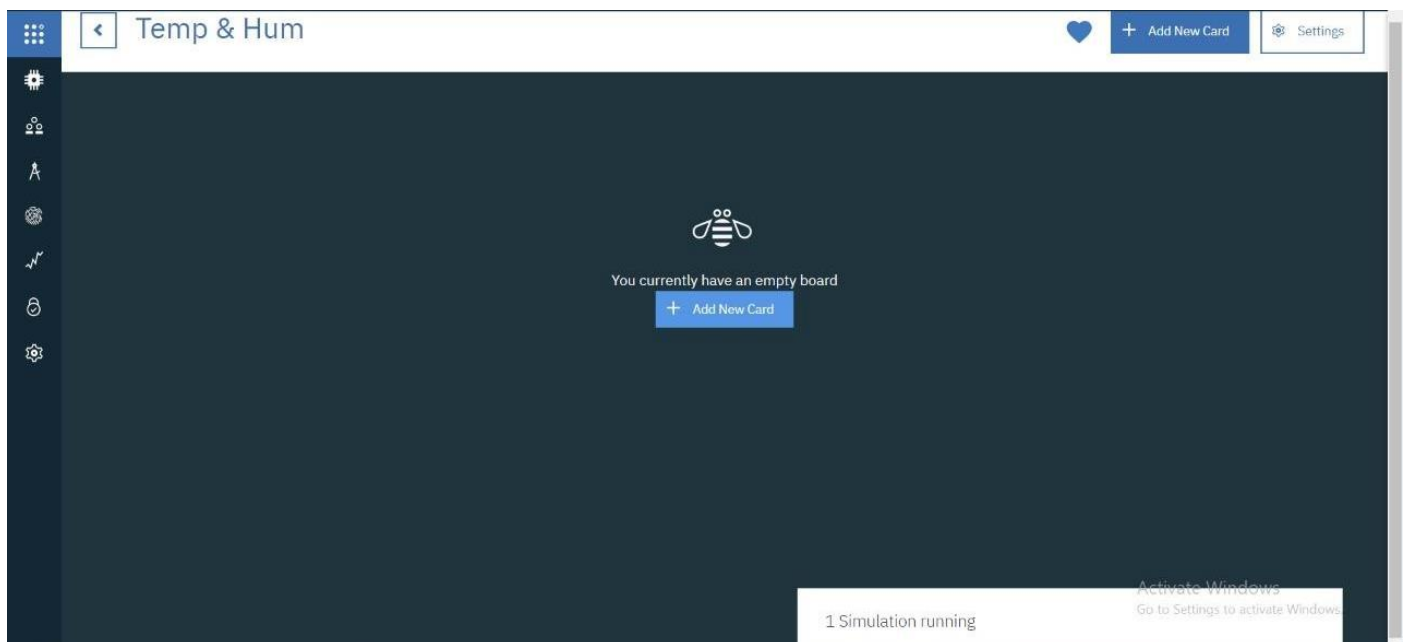
Step 30: Go to Board and click on + Create New Board, fill the details and create a board.

The screenshot shows the 'Your boards' section of the IBM Watson IoT Platform dashboard. It features two existing boards: 'USAGE OVERVIEW' (3 Cards) and 'RISK AND SECURITY OVERVIEW' (4 Cards). A large dashed box with a plus sign indicates where to click to create a new board. The top right corner has a '+ Create New Board' button. The bottom right corner shows a status bar with '1 Simulation running' and an 'Activate Windows' watermark.

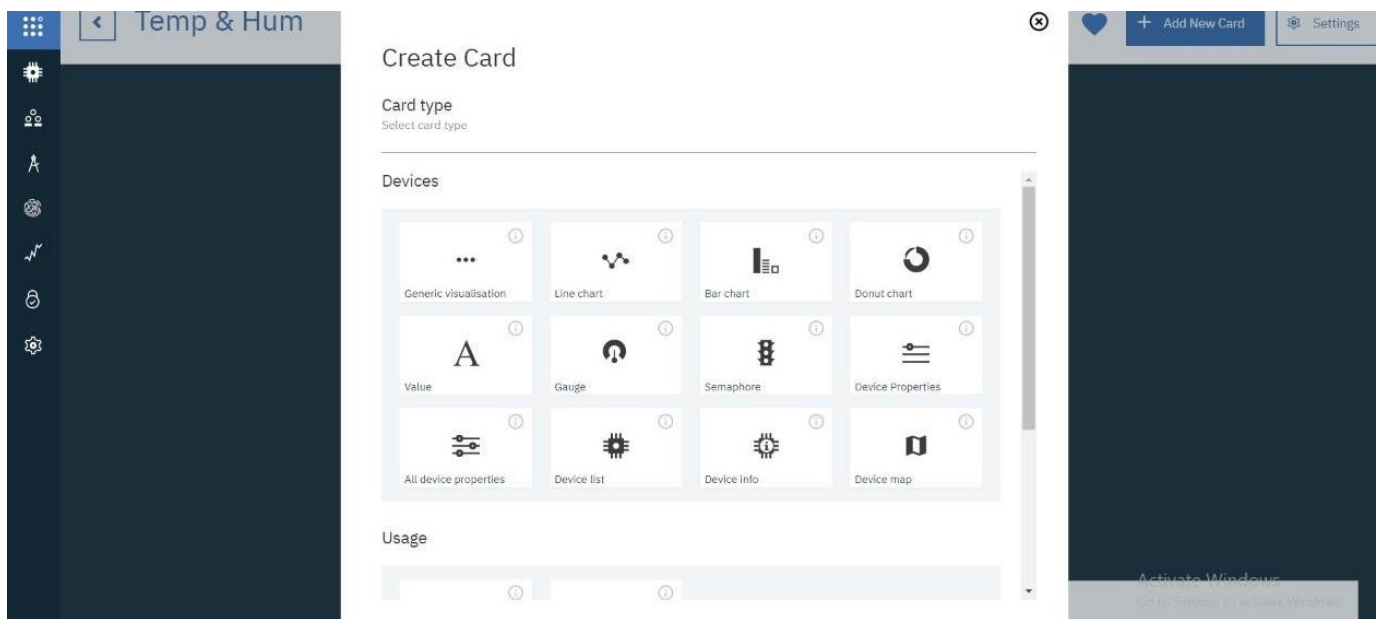
Step 31: Click on the board which is created.



Step 32: Go Add New Card.



Step 33: Choose the Card Type.



Step 34: Choose the device.

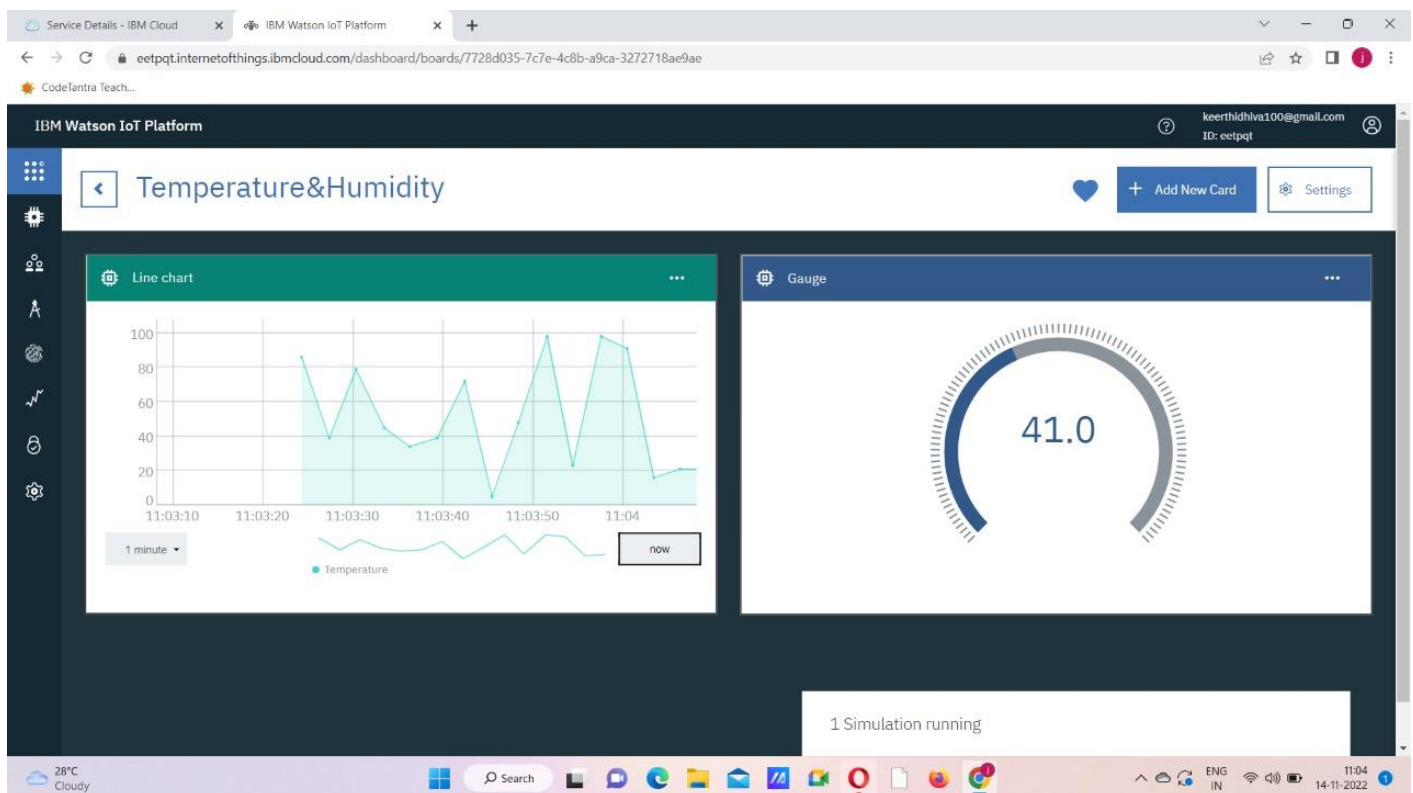
Step 35: Click on Connect new data set.

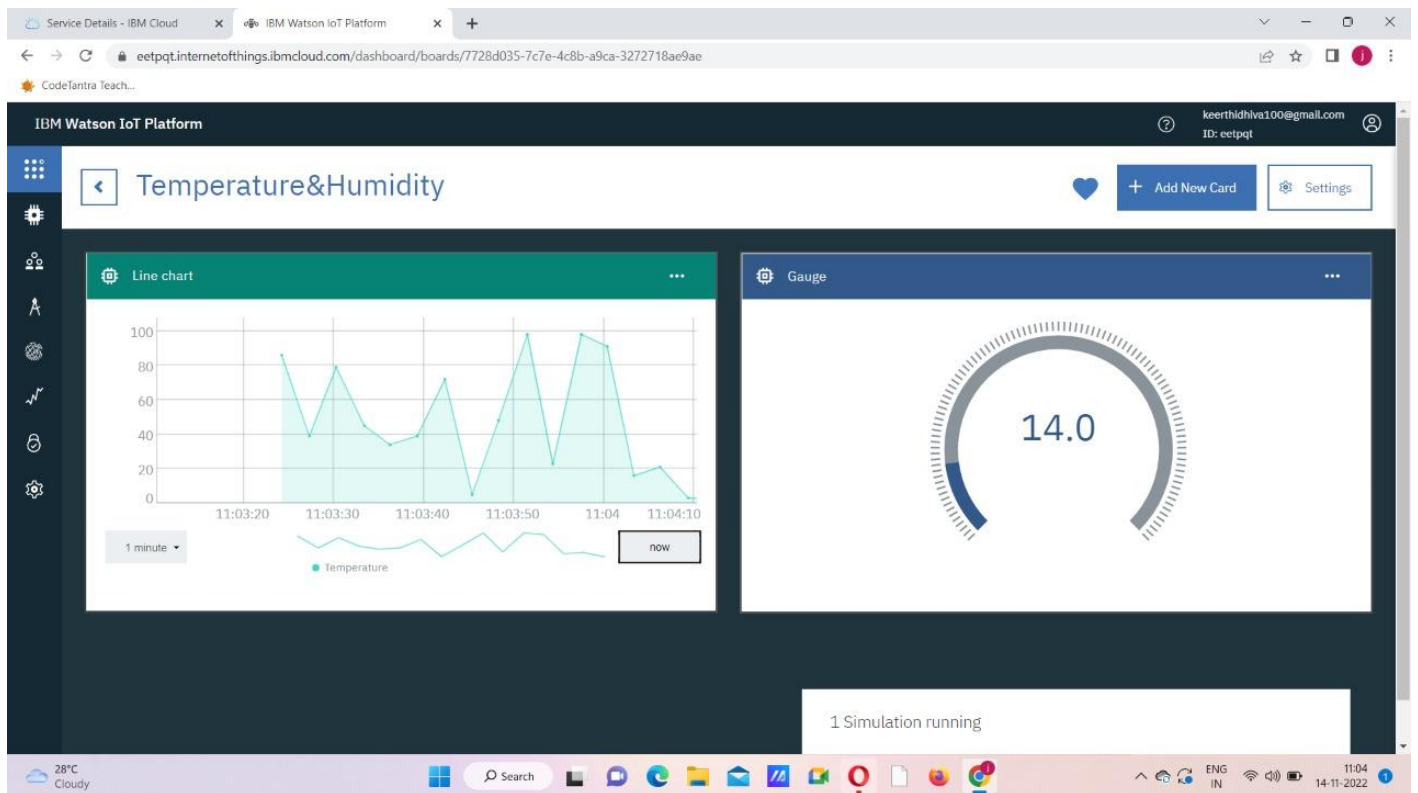
Step 36: Fill the details to get Temperature graph.

Step 37: Choose the Colour.

Step 38: Repeat the same process again to get the Humidity graph.

Step 39: Here is the Final graph.





Result:

An IBM Watson cloud for IoT and a device is created successfully.