

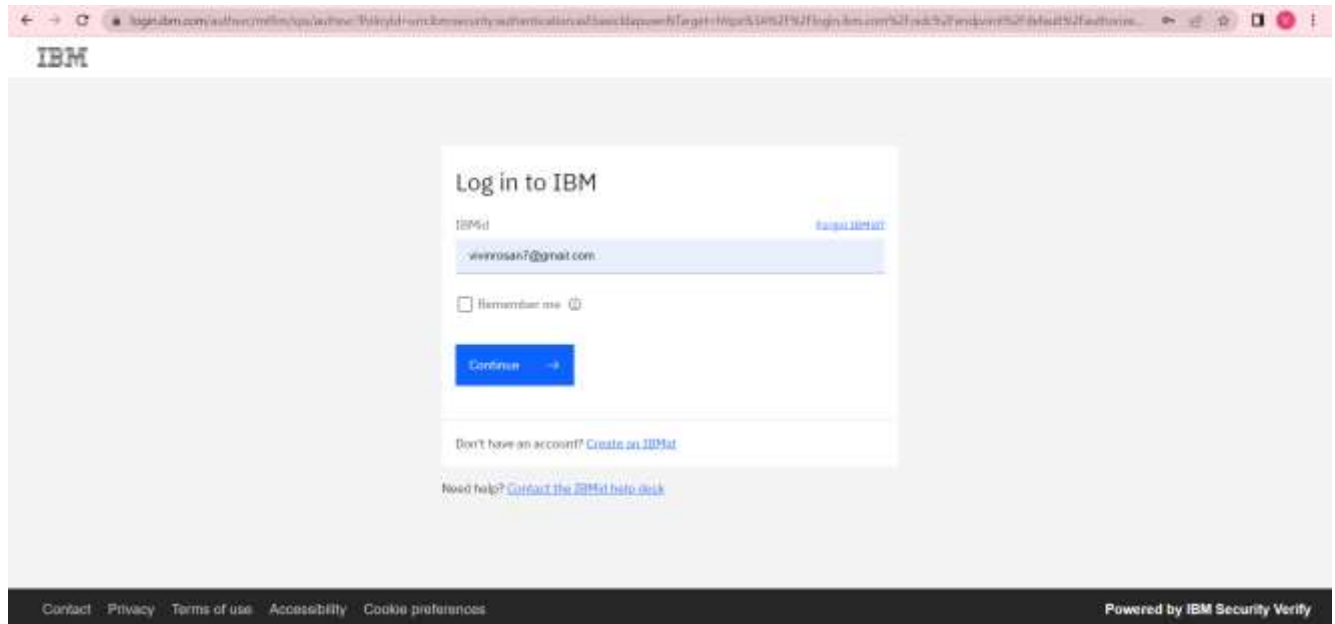
CREATE IBM WATSON IOT PLATFORM AND DEVICE

AIM:

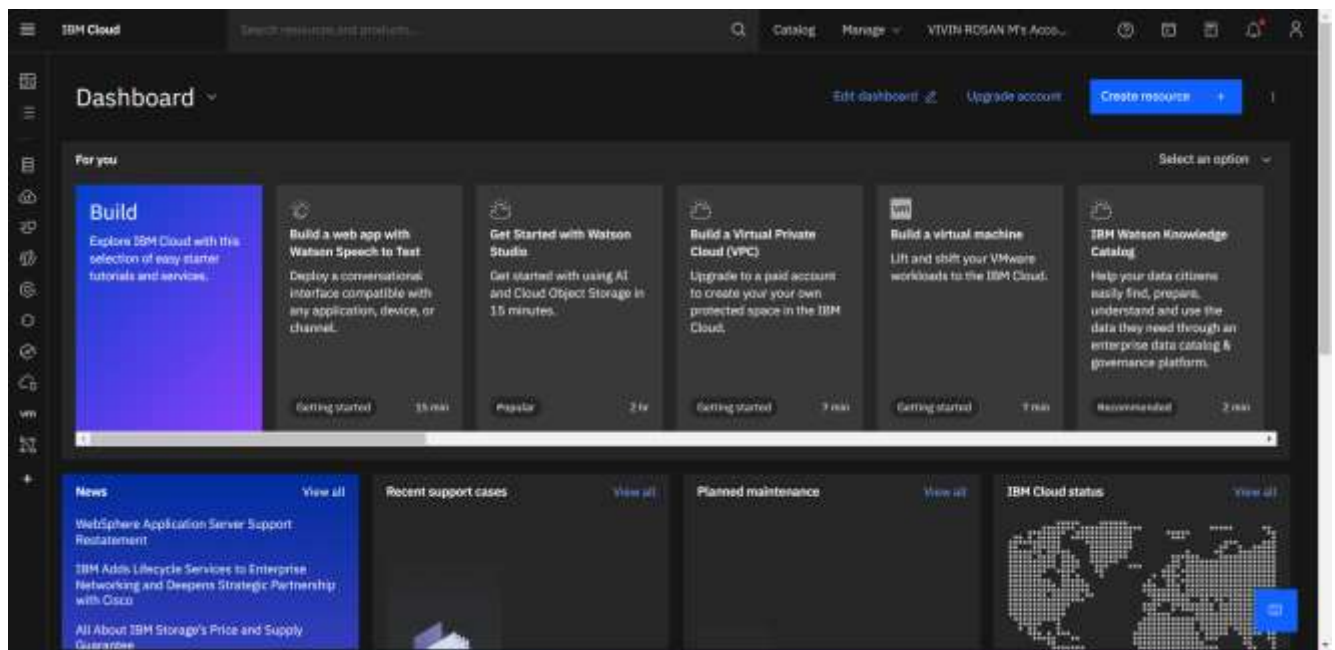
To create the IBM Watson IoT platform and device

STEPS:

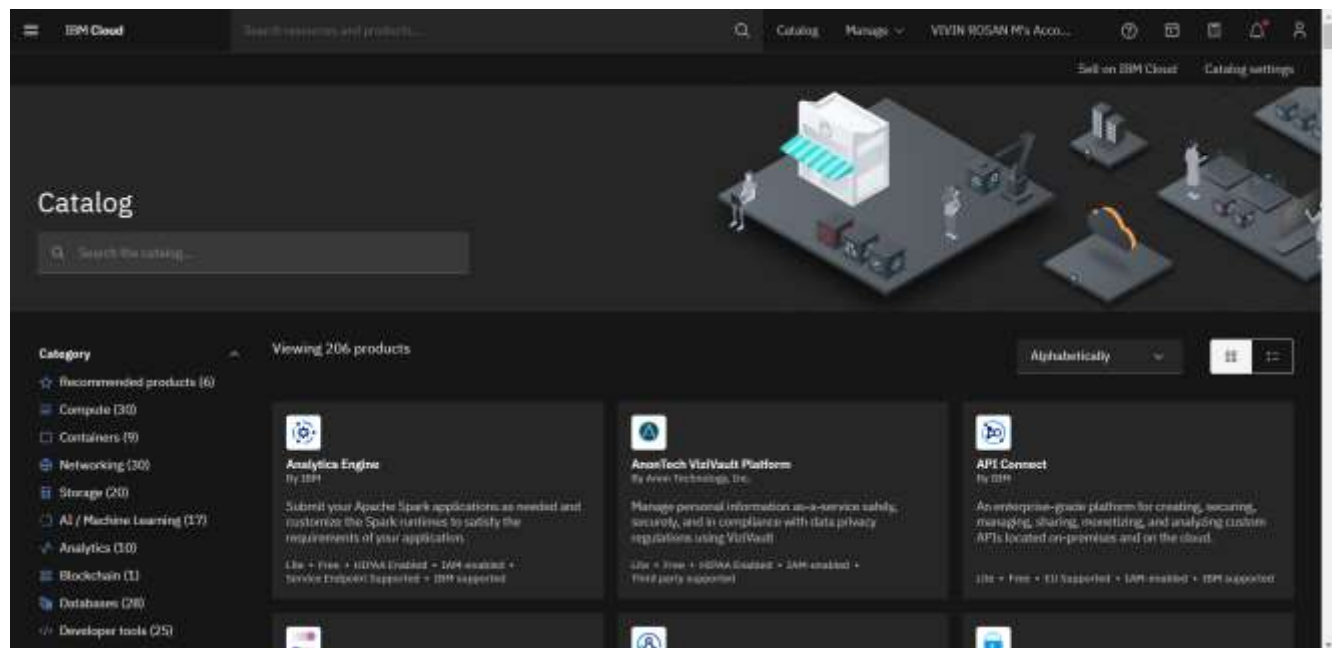
1. Firstly create an IBM cloud account with IBMid and password



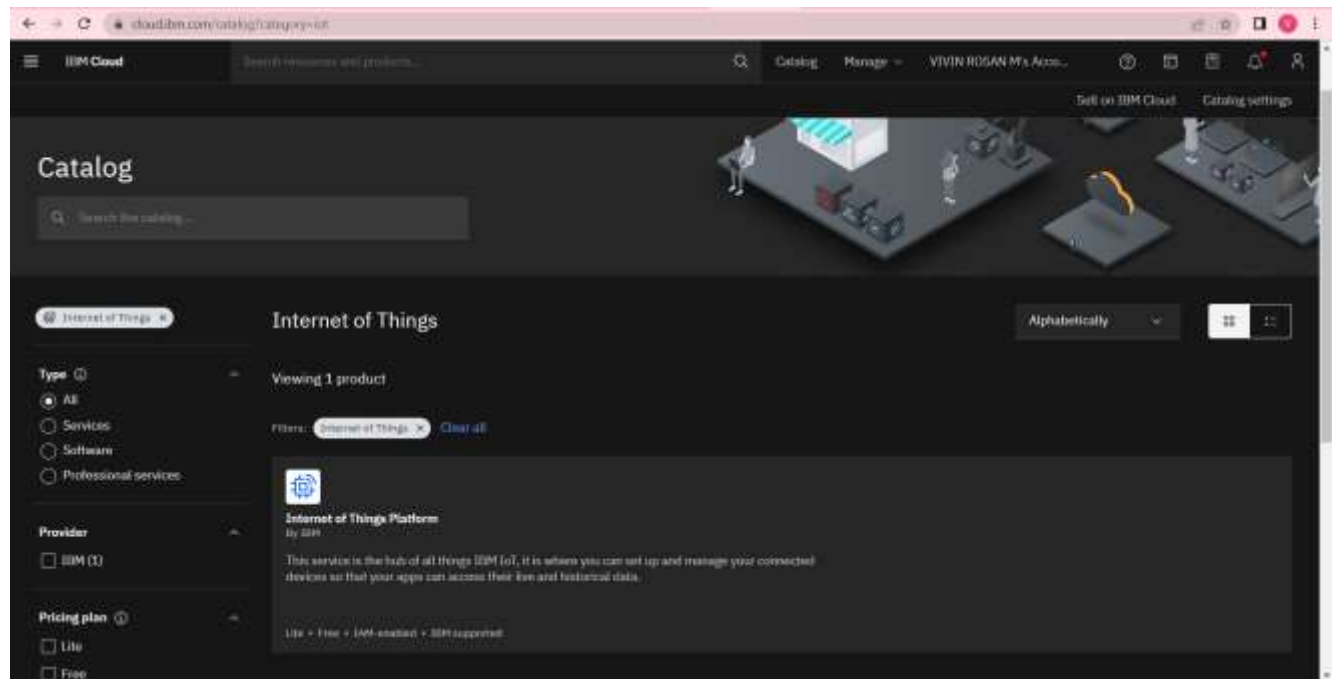
2. Home page of IBM cloud



3. Click on the catalog on the top



4. Click on IoT in the category mentioned



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

The screenshot displays the IBM Cloud console for the Internet of Things Platform. The interface includes a top navigation bar with the IBM Cloud logo, a search bar, and user information. The main content area is divided into a left sidebar, a central workspace, and a right summary panel.

Left Sidebar:

- Service icon: Internet of Things Platform
- Type: Service
- Provider: IBM
- Last updated: 08/15/2022
- Categories: Internet of Things
- Compliance: IAM-enabled
- Locations: Frankfurt, London, Dallas, Washington DC
- Related links: Docs, Terms

Central Workspace:

- Create** (selected) | About
- 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 source. 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 data exchanged, data analyzed, and edge data analyzed per month.

Right Summary Panel:

- Summary**
- Internet of Things Platform **Free**
- Location: Frankfurt
- Plan: Lite
- Service name: Internet of Things Platform-2x
- Resource group: Default
- ☒ I have read and agree to the following license agreements: [Terms](#)
- Create** button
- Add to estimate** button

6. Enter the location and in the configure your resource type the service name and choose the plan, tick the agree with agreements and then click on create

The screenshot shows the IBM Cloud console for the Internet of Things Platform. The page is titled "Internet of Things Platform" and includes a description: "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." The "Create" tab is active, showing options to "Select a location" (Frankfurt (eu-de)) and "Select a pricing plan" (Life). A table lists the pricing plans, with the "Life" plan selected. The "Life" plan includes up to 500 registered devices, a maximum of 200 MB of each data event, a maximum of 500 application bindings, a maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed. The "Create" button is highlighted in blue.

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

Integrates: Internet of Things

Compliance: IAM-enabled

Location: Frankfurt, London, Dallas, Washington DC

Related links: Docs, Terms

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
Life	Includes up to 500 registered devices, and a maximum of 200 MB of each data event. 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 Life service plan for Internet of Things Platform includes up to 500 registered devices, and a maximum of 200 MB each of data exchanged, data analyzed, and edge data analyzed per month.

Summary

Internet of Things Platform Free

Location: Frankfurt

Plan: Life

Service name: Internet of Things Platform-2x

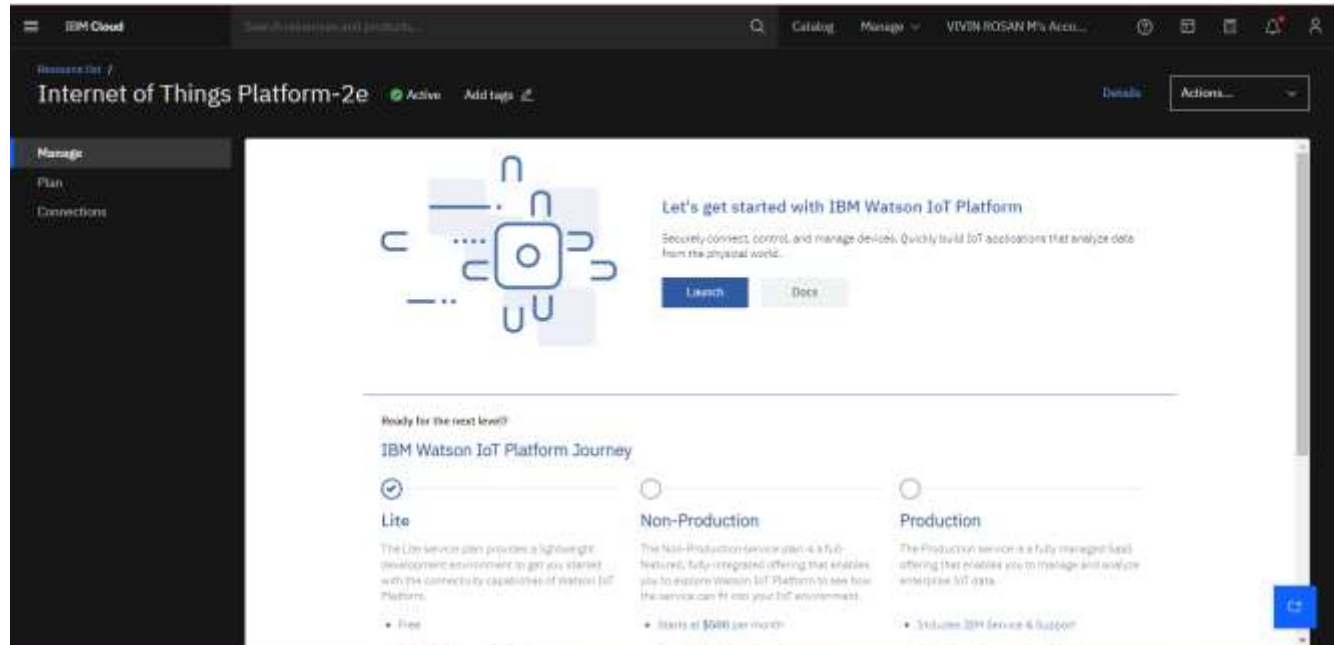
Resource group: Default

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

Create

Add to estimate

7. Internet of Things Platform Child_safety will be created, where there are different options like manage, plan, and connection (manage is for launch, Plan gives us the idea about the payment package and its upgrades, and lastly the connection is for to connect IoT with other servies)



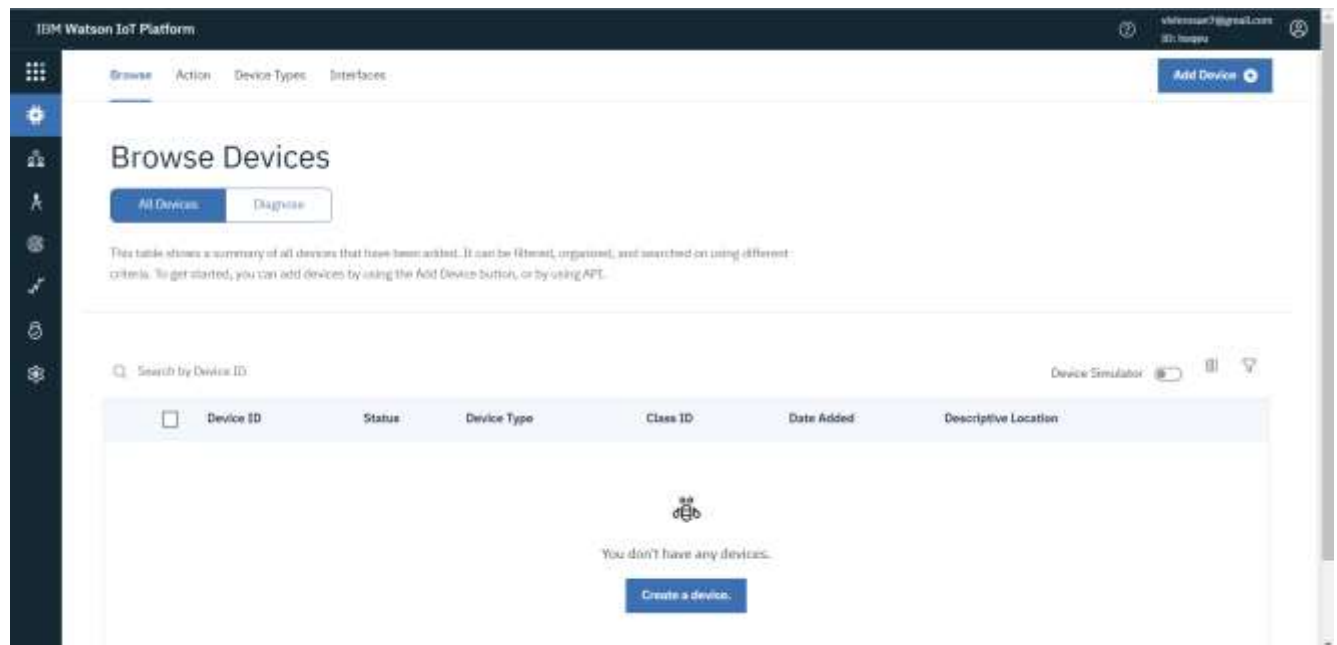
8. Clicking on the launch button in the manage tab, it will open to this



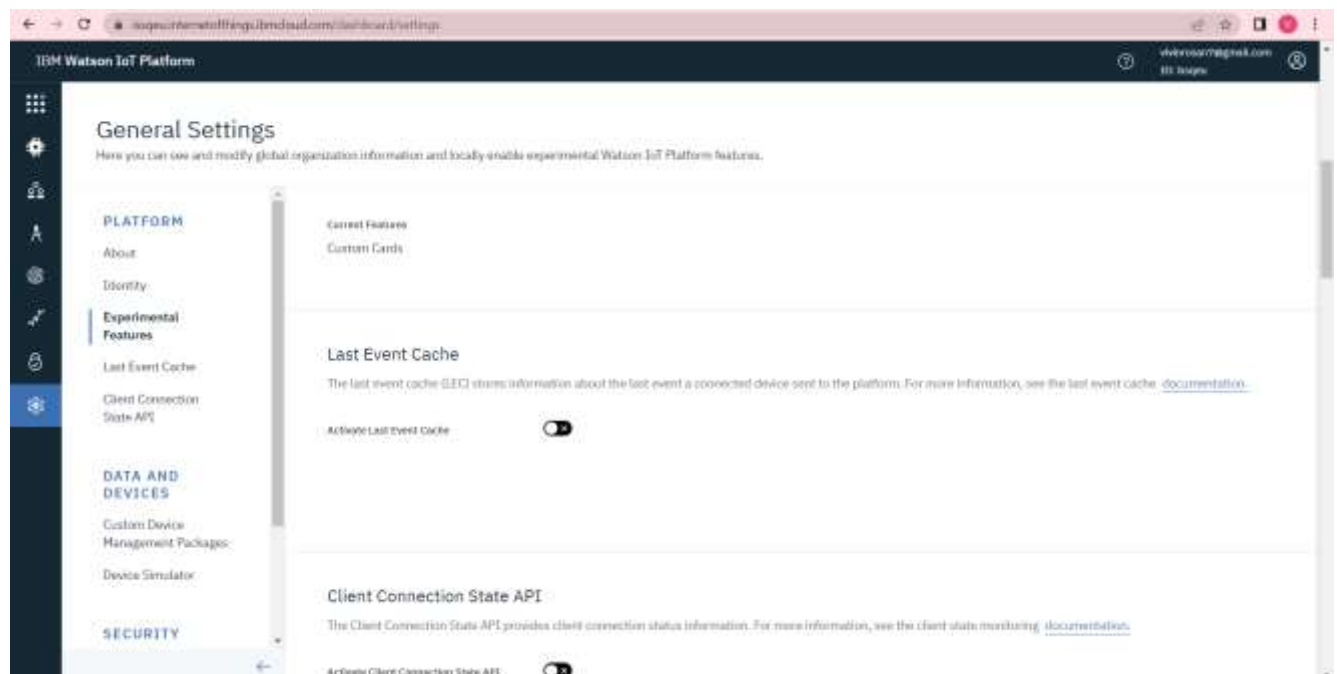
9. Once logged in the name will be displayed and it goes back to the first page



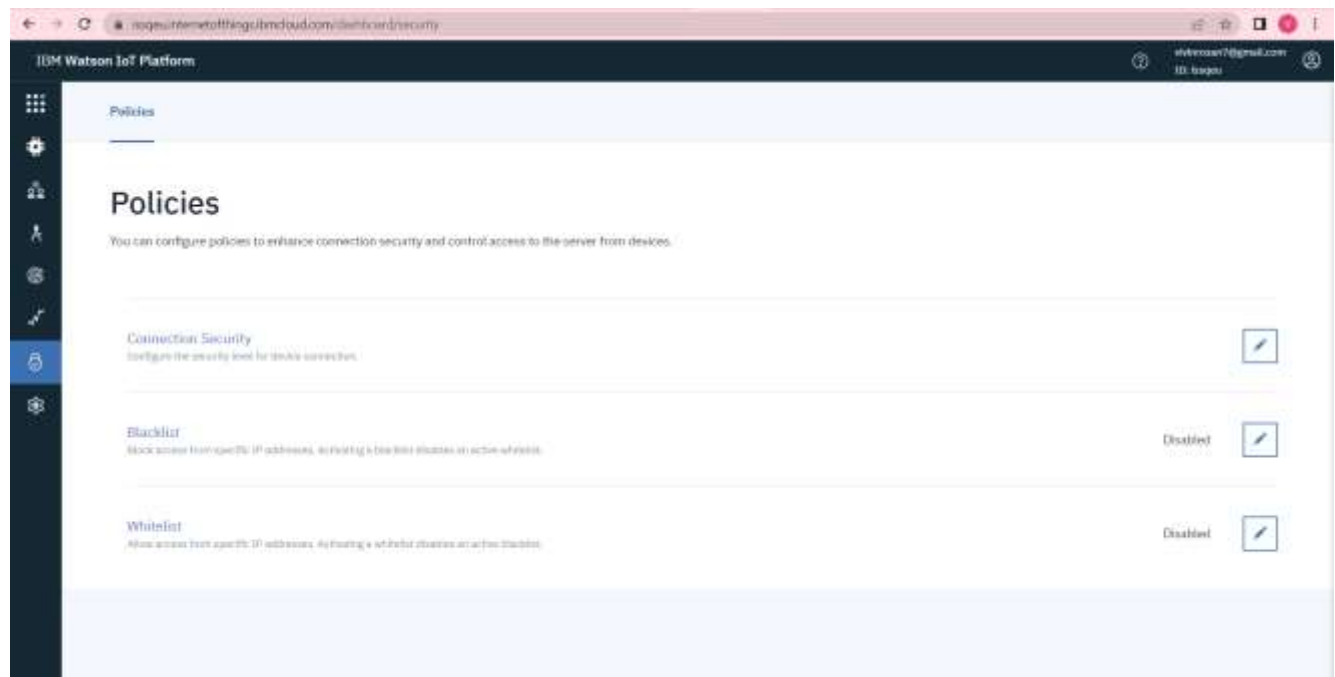
10. And again clicking on the launch button will open this tab, the device will help in the creation of the devices, the addition of devices, and the display of details of the devices.



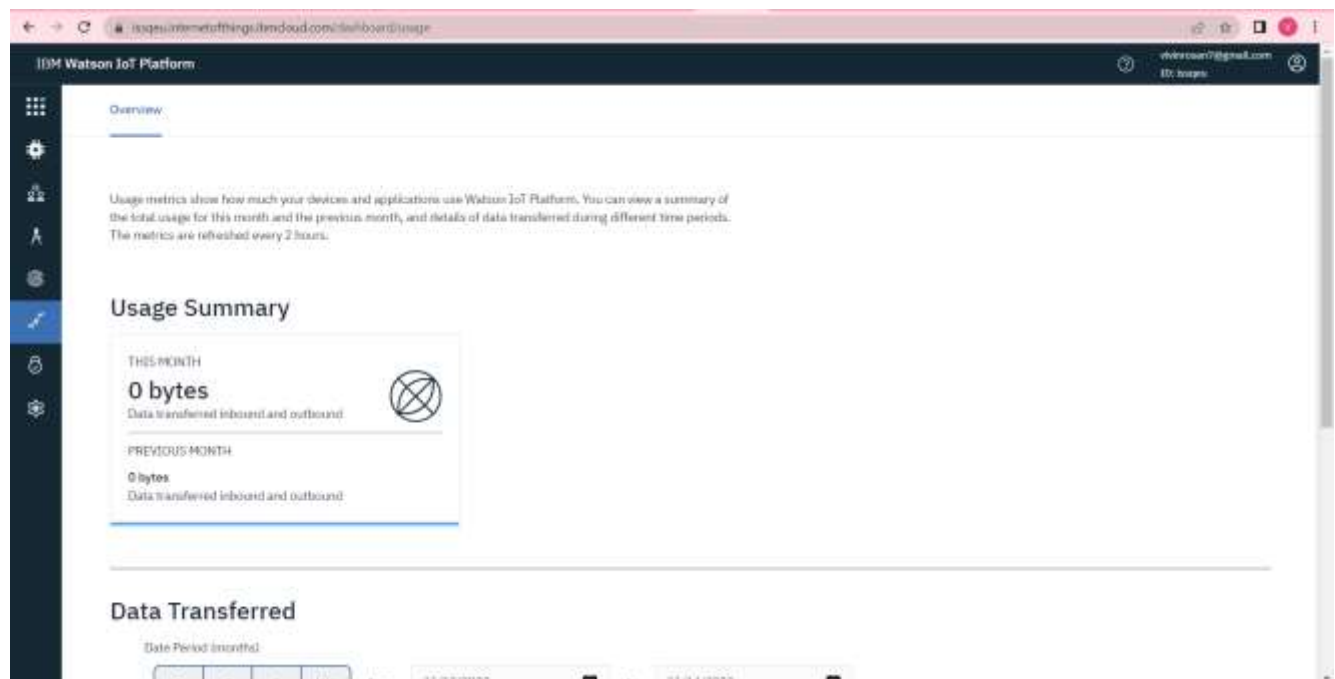
11. The setting tab is used to change the general setting if needed for the project.



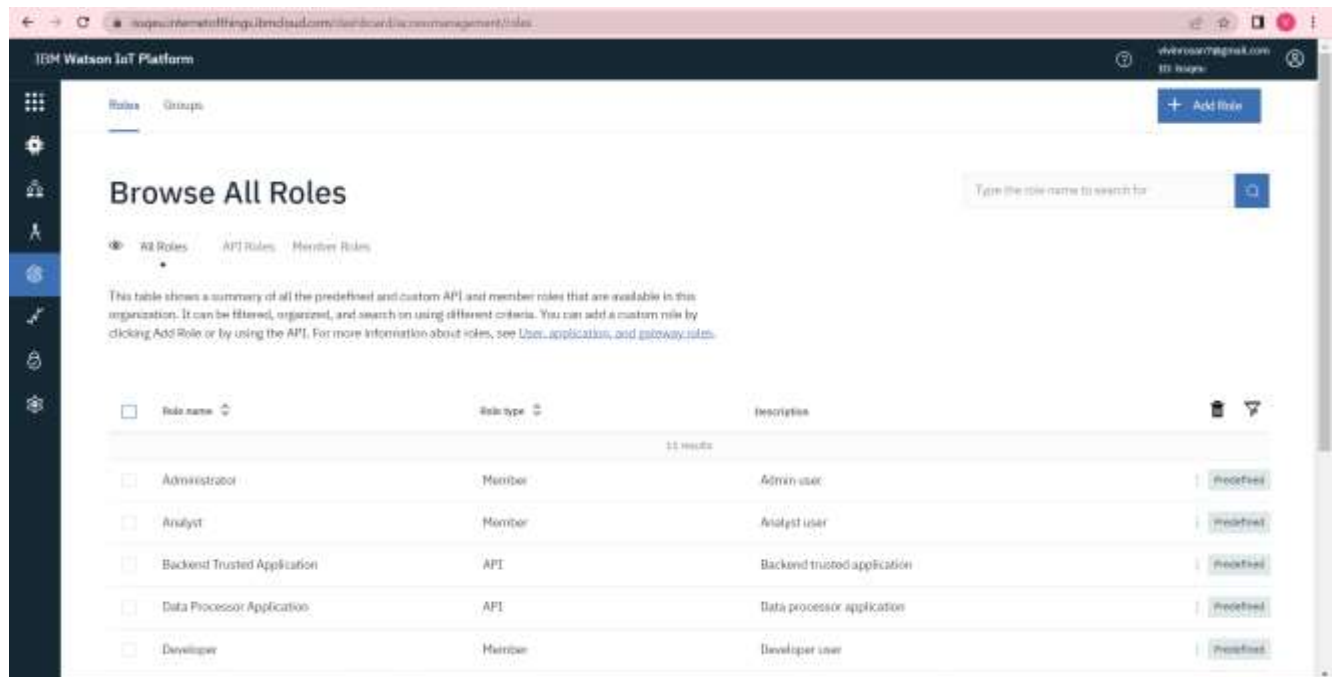
12. In the security tab we can choose the type of security connection and can change according to specification



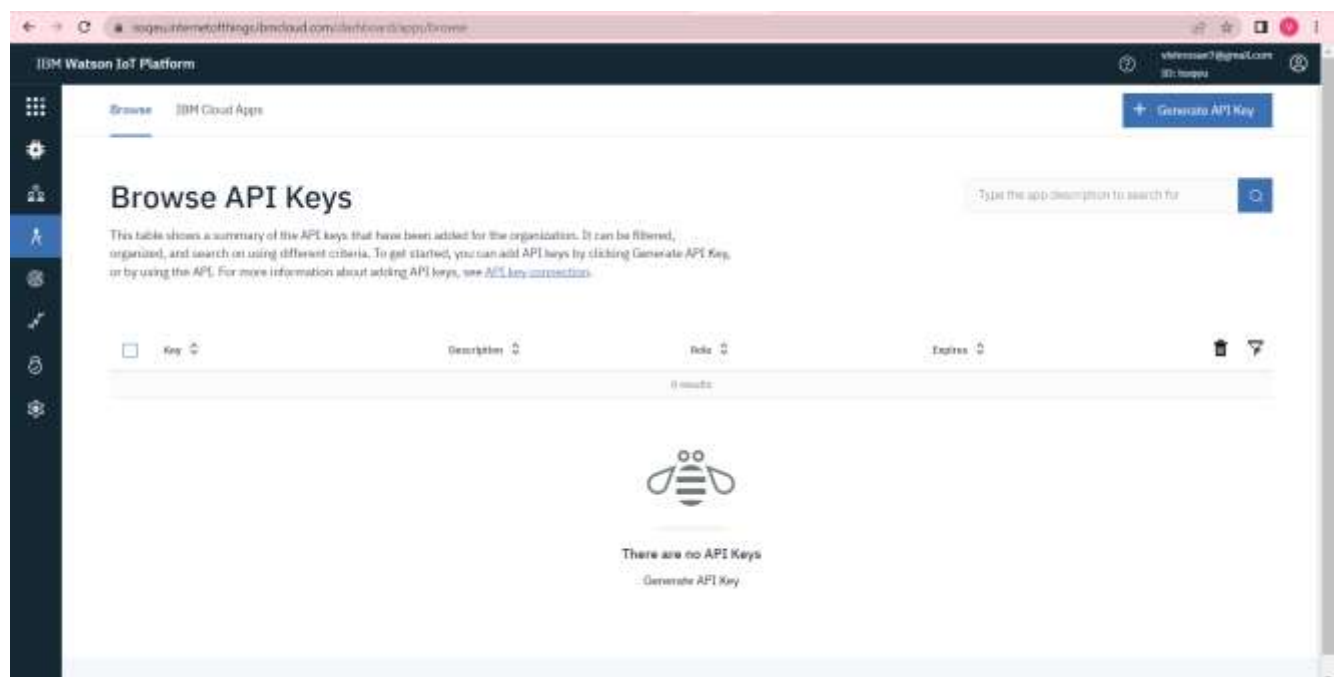
13. Usage gives the summary of how many bytes are used between the devices and the IBM cloud.



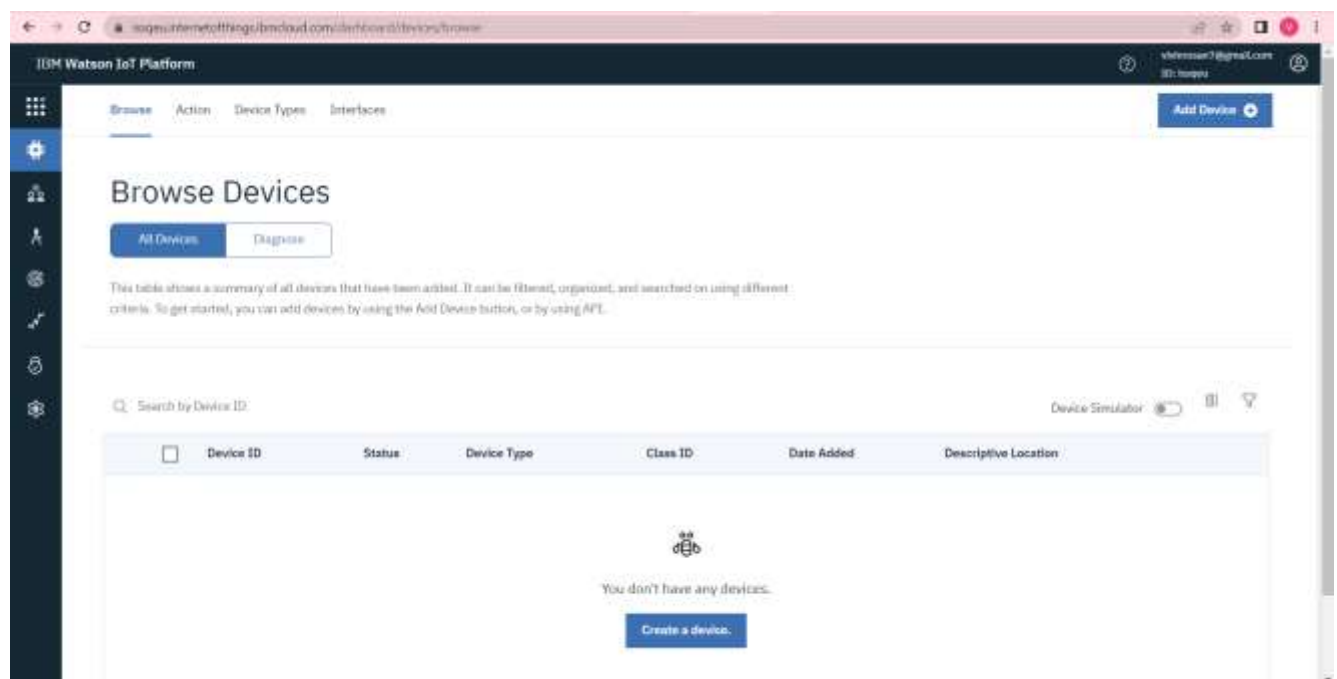
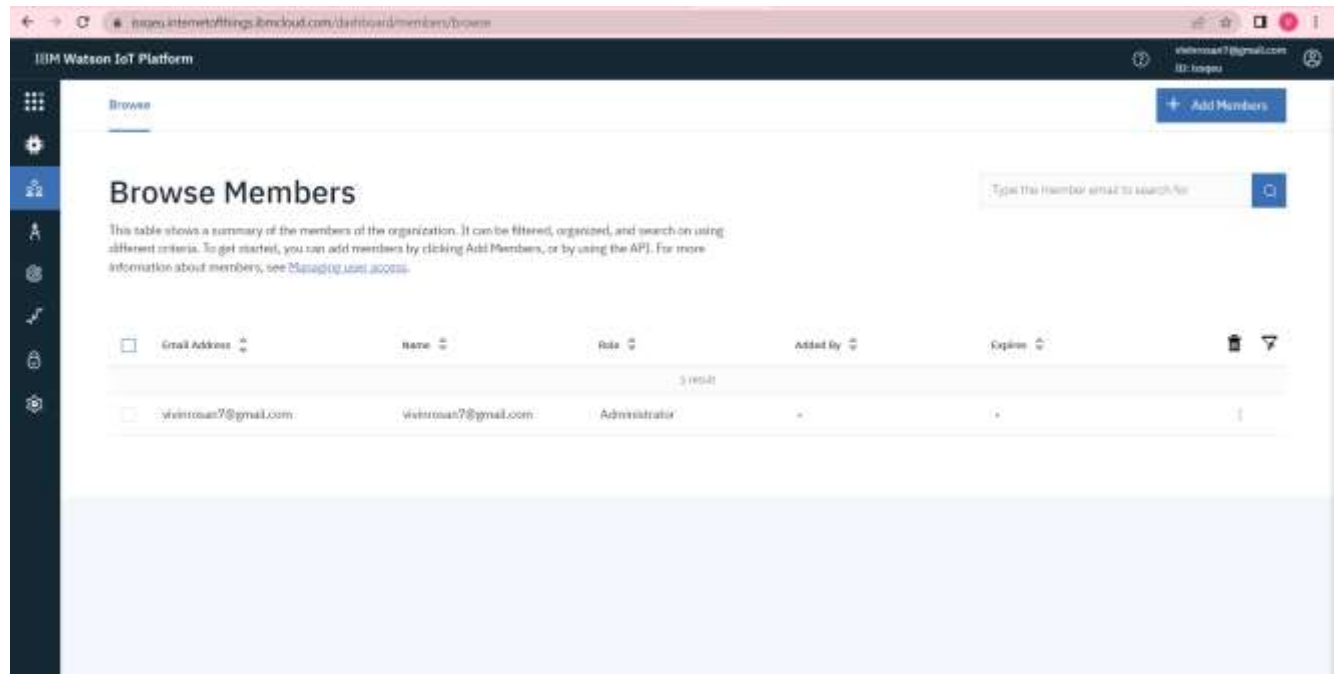
14. The member tab is add the teams members to work in the platform



15. This tab is used when you want to connect to some other platform and to integrate with other services.



16. Click on the device tab and click on the add device button, then give the device type and device id and click next



The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The wizard has four steps: Identity, Device Information, Security, and Summary. The 'Identity' step is currently active, indicated by a blue circle and a checkmark. Below the step indicator, there is a text prompt: 'Select a device type for the device that you are adding and give the device a unique ID.' There are two input fields: 'Device Type' with the value 'NodeMCU' and 'Device ID' with the value '222001'. At the bottom right of the form, there are 'Cancel' and 'Next' buttons. Below the form, there is a 'Browse Devices' section with 'All Devices' and 'Diagnose' buttons.

IBM Watson IoT Platform

Navigation: Browse | Action | Device Types | Interfaces

Add Device

Identity | Device Information | Security | Summary

Select a device type for the device that you are adding and give the device a unique ID.

Device Type: NodeMCU

Device ID: 222001

Buttons: Cancel, Next

Browse Devices

Buttons: All Devices, Diagnose

17. This page to enter extra details and of the hardware

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform, now at the 'Device Information' step. The 'Identity' step is completed, indicated by a checkmark. The 'Device Information' step is active, indicated by a blue circle. Below the step indicator, there is a text prompt: 'You can modify the default device information and enter more information about the device for identification purposes.' There are two columns of input fields. The left column contains: 'Serial Number' (Enter Serial Number), 'Model' (Enter Model), 'Description' (Enter Description), and 'Hardware Version' (Enter Hardware Version). The right column contains: 'Manufacturer' (Enter Manufacturer), 'Device Class' (Enter Device Class), 'Firmware Version' (Enter Firmware Version), and 'Descriptive Location' (Enter Descriptive Location). At the bottom left of the form, there is an 'Add Metadata' button with a plus icon. At the bottom right, there are 'Back' and 'Next' buttons.

IBM Watson IoT Platform

Navigation: Browse | Action | Device Types | Interfaces

Add Device

Identity | Device Information | Security | Summary

You can modify the default device information and enter more information about the device for identification purposes.

Serial Number: Enter Serial Number

Model: Enter Model

Description: Enter Description

Hardware Version: Enter Hardware Version

Manufacturer: Enter Manufacturer

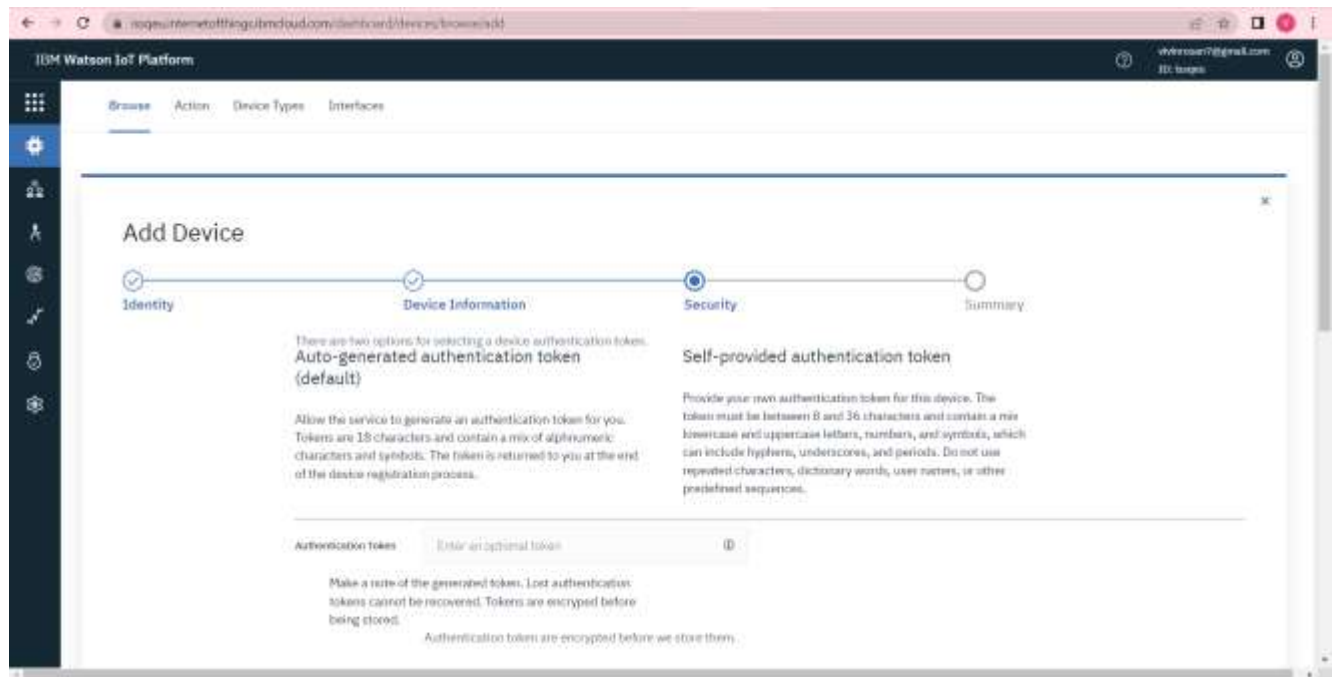
Device Class: Enter Device Class

Firmware Version: Enter Firmware Version

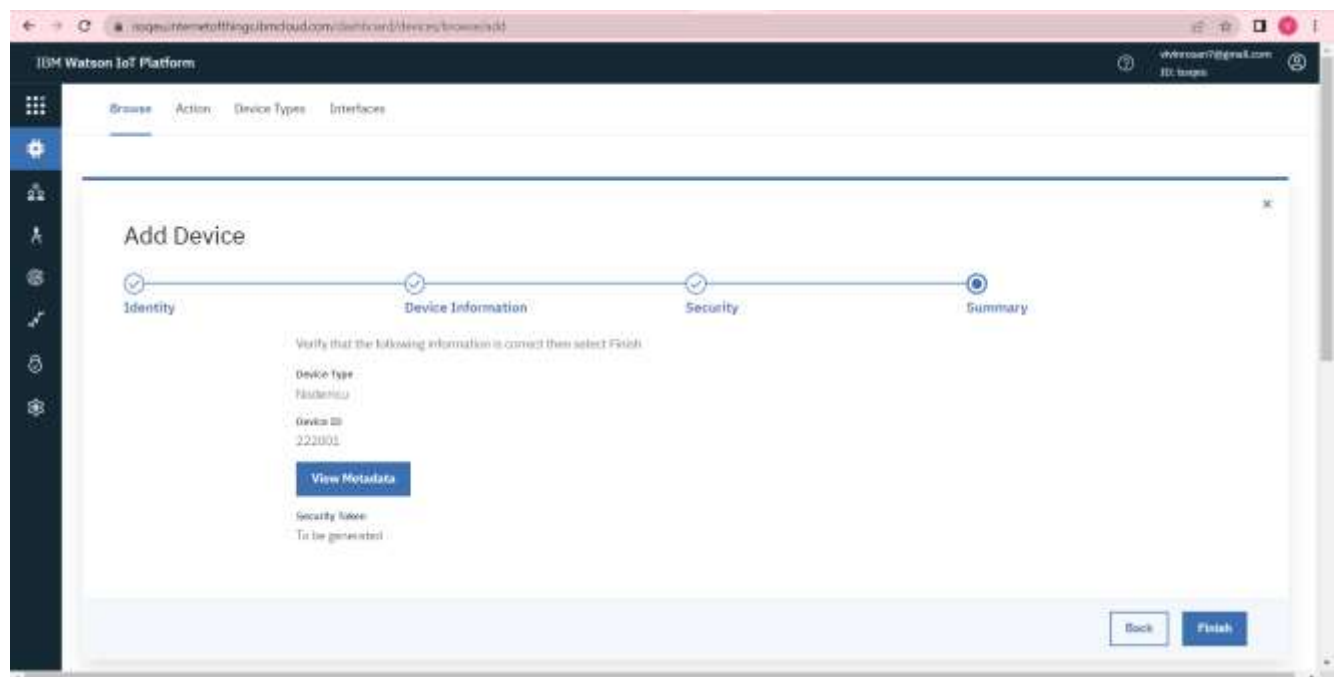
Descriptive Location: Enter Descriptive Location

Buttons: Add Metadata, Back, Next

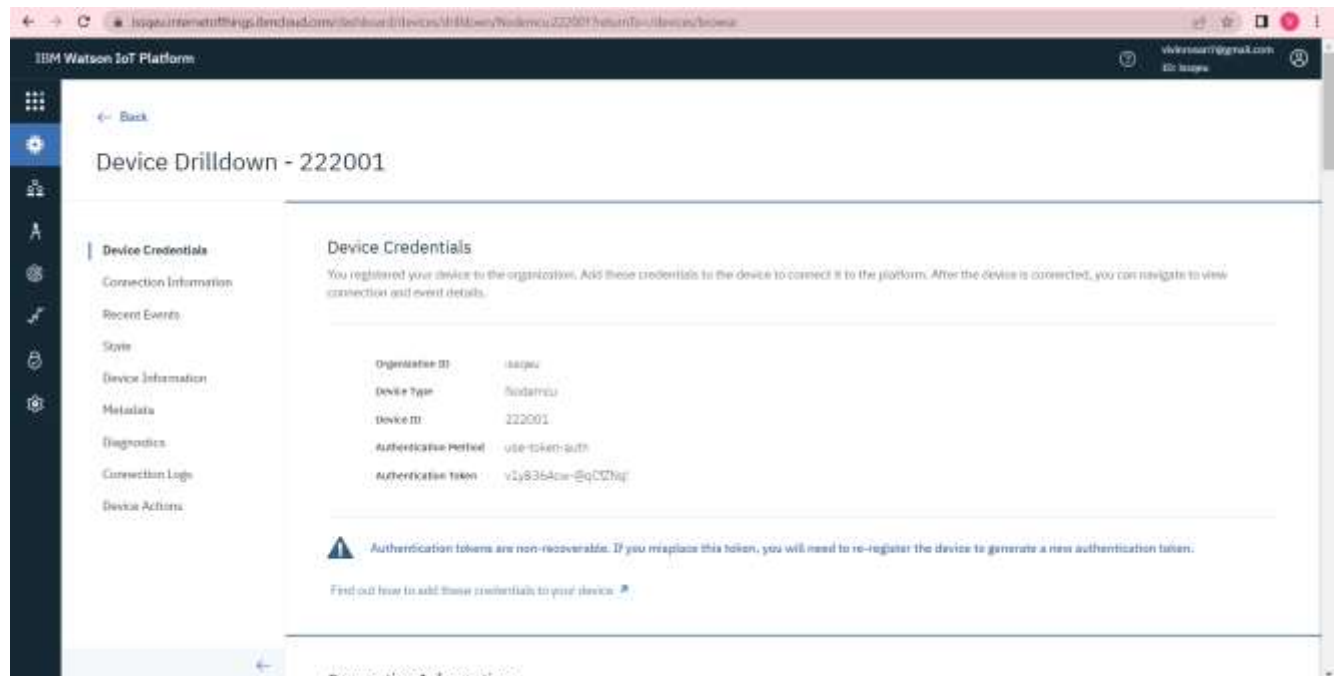
18. Clicking next it goes to the security where we do authentication token id.



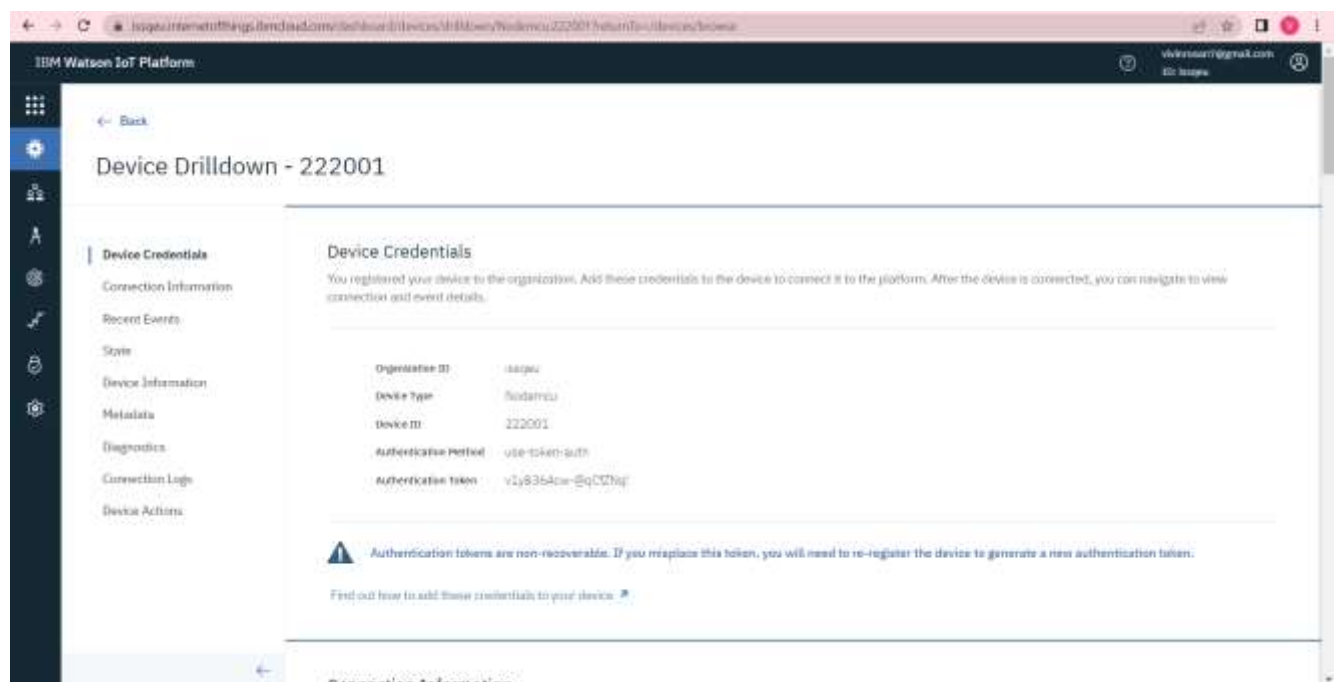
19. Clicking on next it goes to the summary of the device then click finish



20. The device credentials will be displayed with all the details



21. Safe the details of the device as the authentication tokens are non-recoverable and if misplaced then we have to create a new one.



22. Clicking on the device tab we can now see the added device. Clicking on it will display the other details

It has different tabs like Identity, Device Information, State and login.

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. The main content area displays a table with columns: Device ID, Status, Device Type, Class ID, Date Added, and Descriptive Location. A single device is listed with ID 222001, Status Disconnected, and Type NodeMCU. Below the table, a card for the selected device is shown with tabs: Identity, Device Information, Recent Events, State, and Logs. The 'Identity' tab is active, displaying details: Device ID (222001), Device Type (NodeMCU), Date Added (Nov 14, 2022 8:28 PM), Added By (vivekrosari7@gmail.com), and Connection Status (Disconnected). The bottom of the card shows 'Items per page: 50' and '1-1 of 1 item'.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
222001	Disconnected	NodeMCU	Device	Nov 14, 2022 8:28 PM	

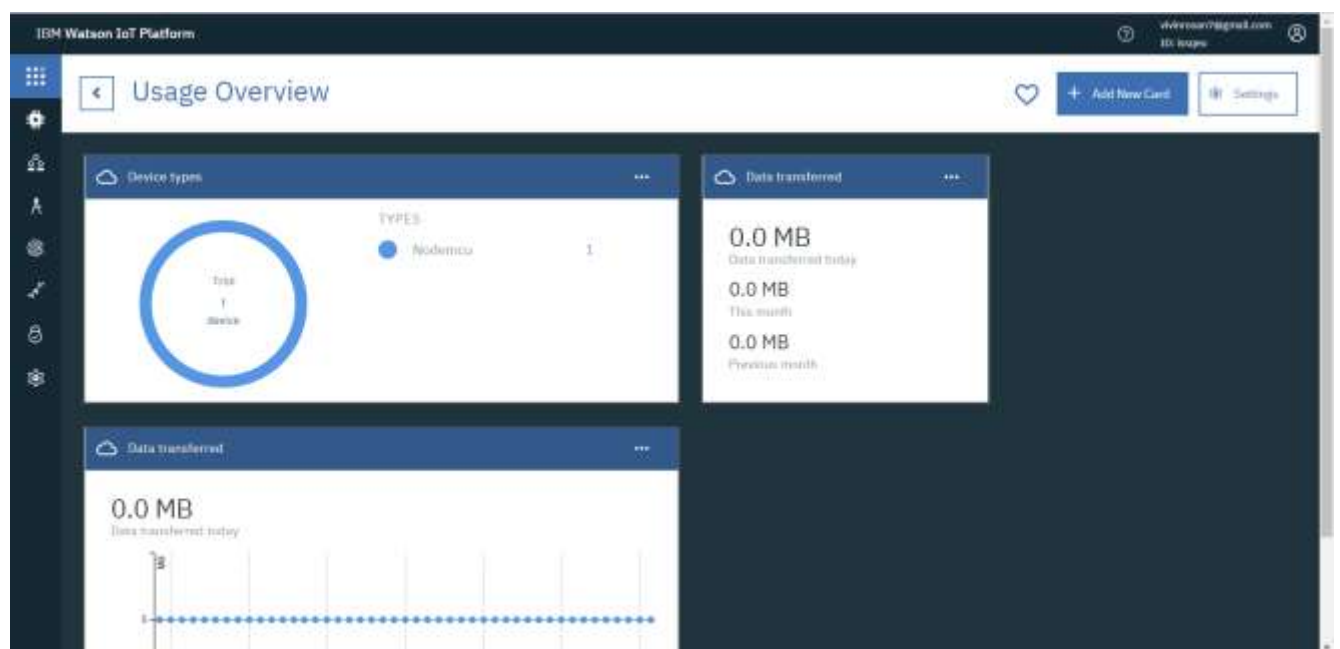
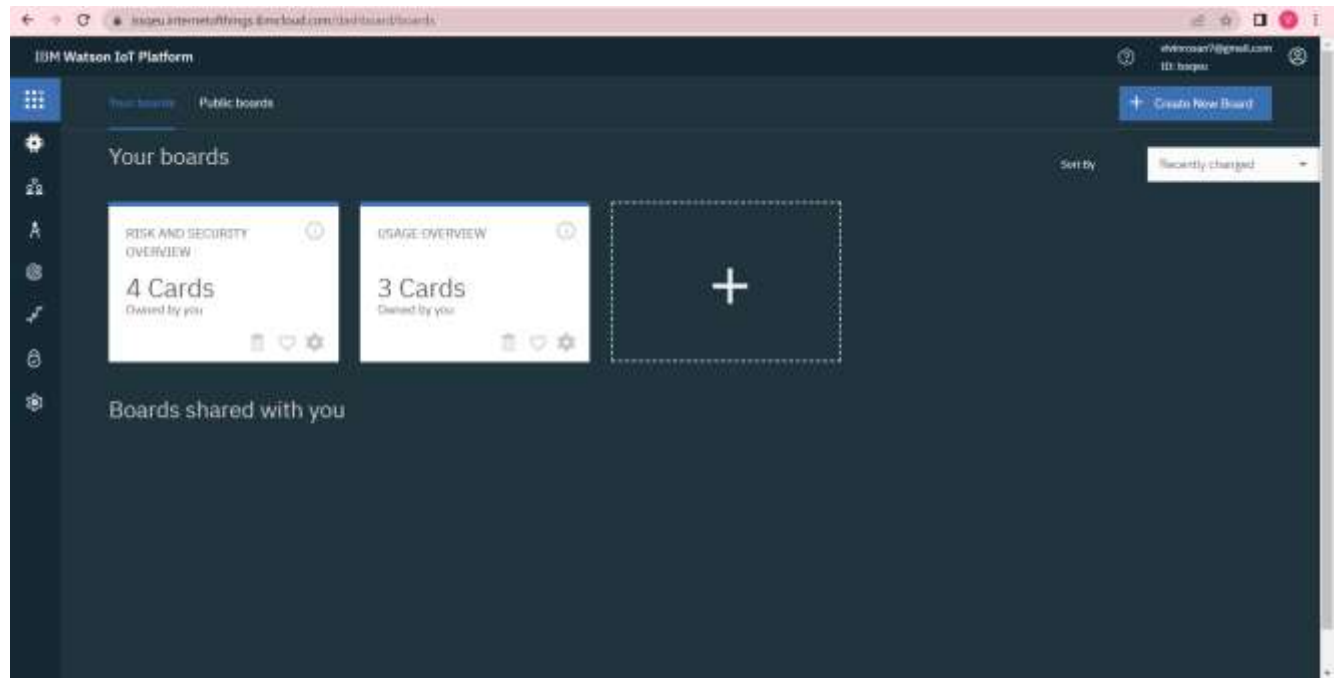
Identity | Device Information | Recent Events | State | Logs

Device ID: 222001
Device Type: NodeMCU
Date Added: Nov 14, 2022 8:28 PM
Added By: vivekrosari7@gmail.com
Connection Status: Disconnected

Items per page: 50 | 1-1 of 1 item

This is a duplicate of the screenshot above, showing the same IBM Watson IoT Platform dashboard with the device card for ID 222001.

23. The board will display card for the project



RESULT:

An IBM Watson cloud for IoT and a device is created