

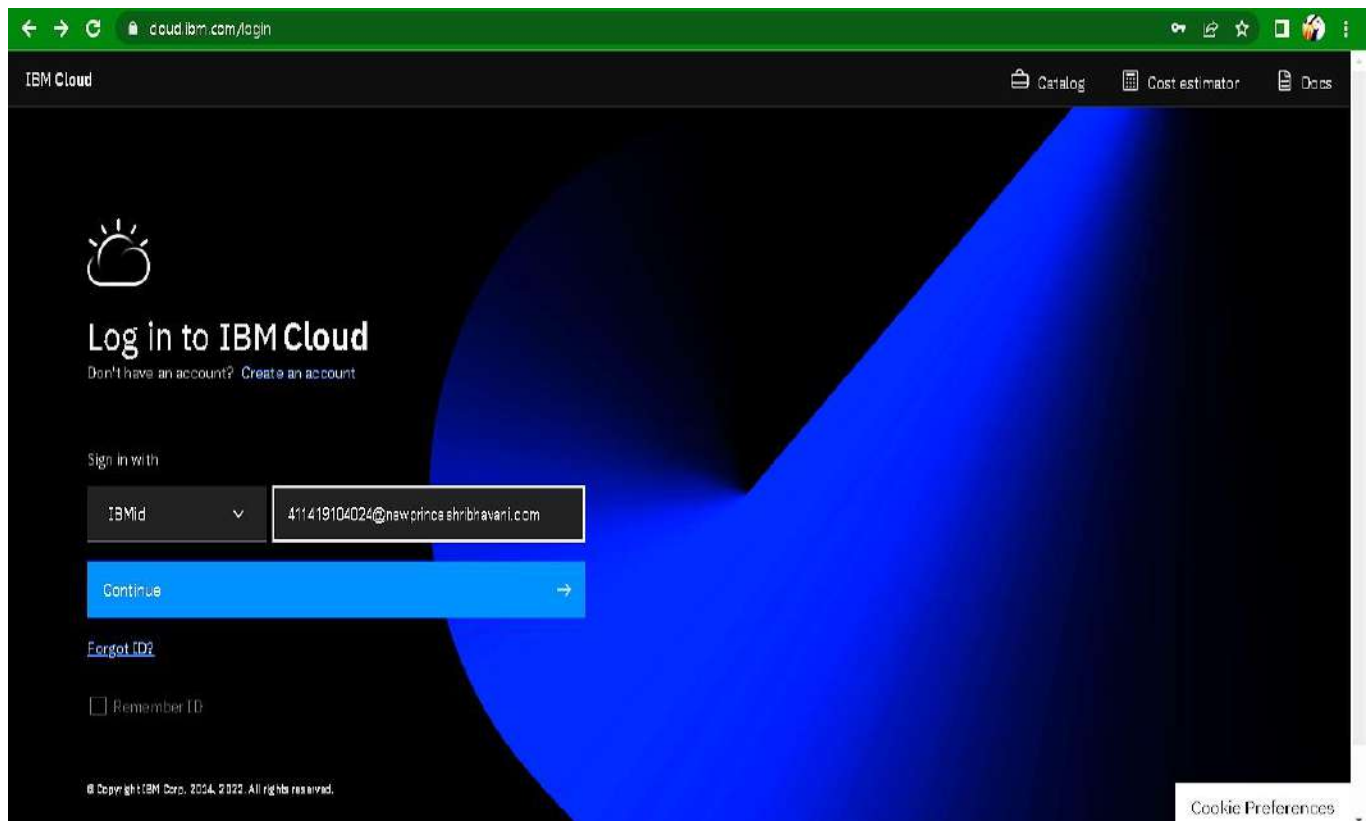
## Create And Configure IBM Cloud Service

### Create IBM Watson IoT Platform And Device

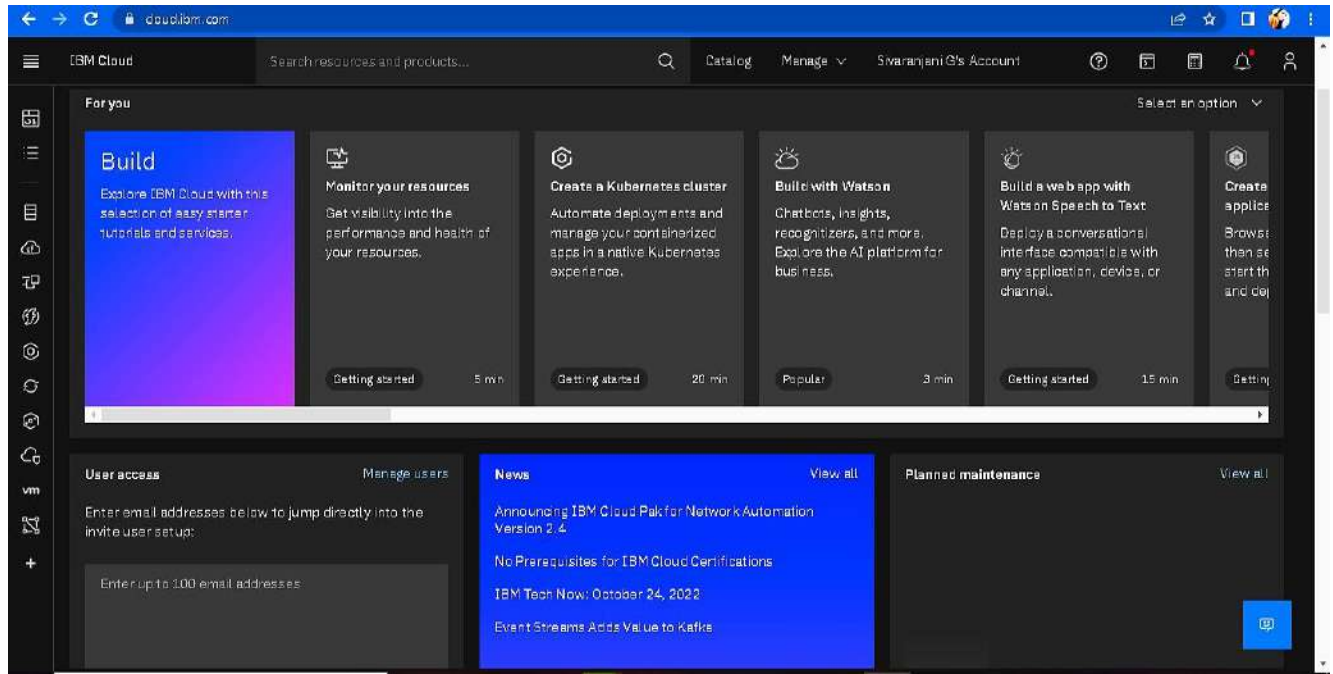
Date	24 October 2022
Team ID	PNT2022TMID37924
Project Name	IoT Based Safety Gadget For Child Safety Monitoring & Notification
Maximum Marks	4 Marks

## STEPS

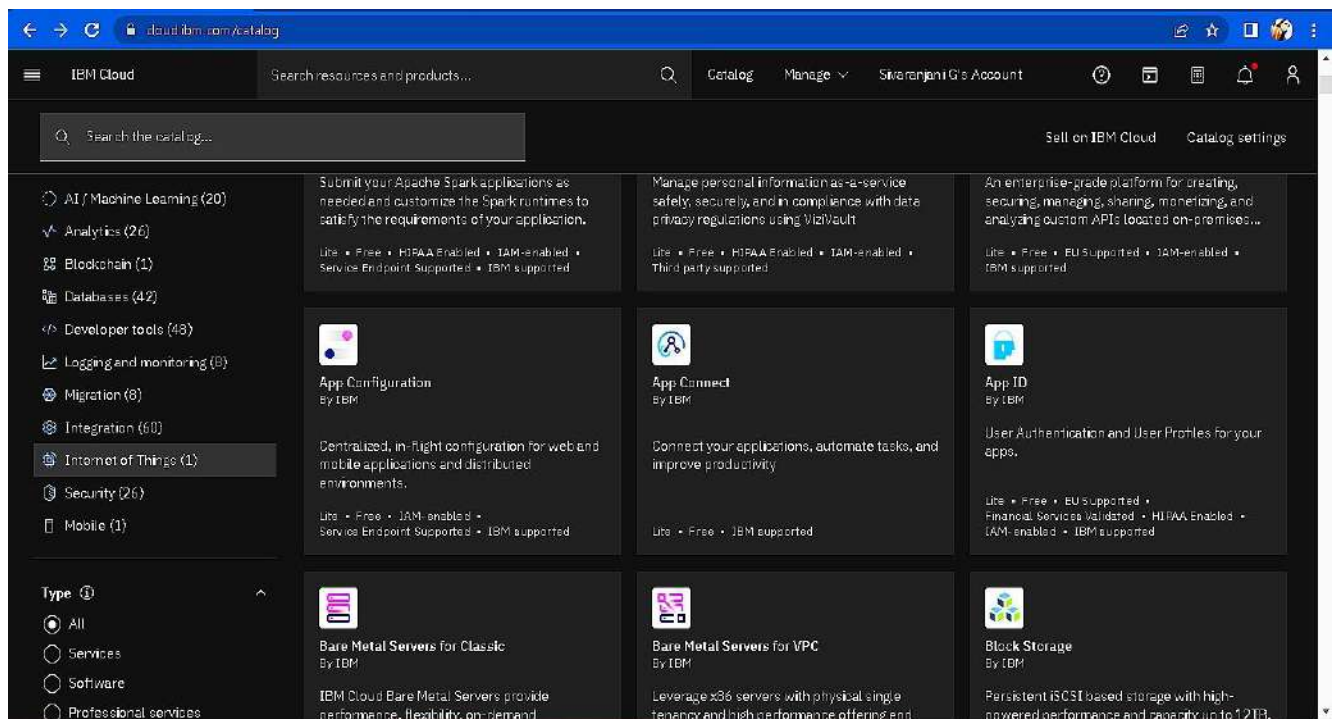
1. Firstly create an IBM cloud account with IBMid and password



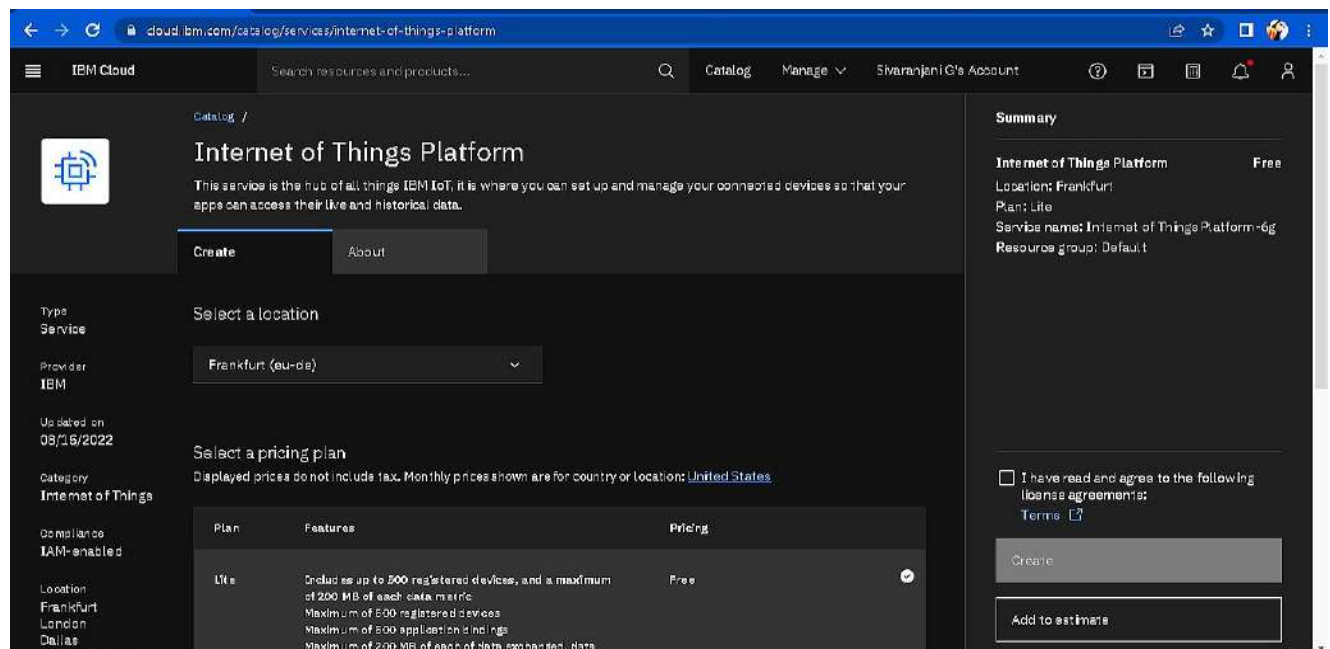
## 2. Home page of IBM cloud



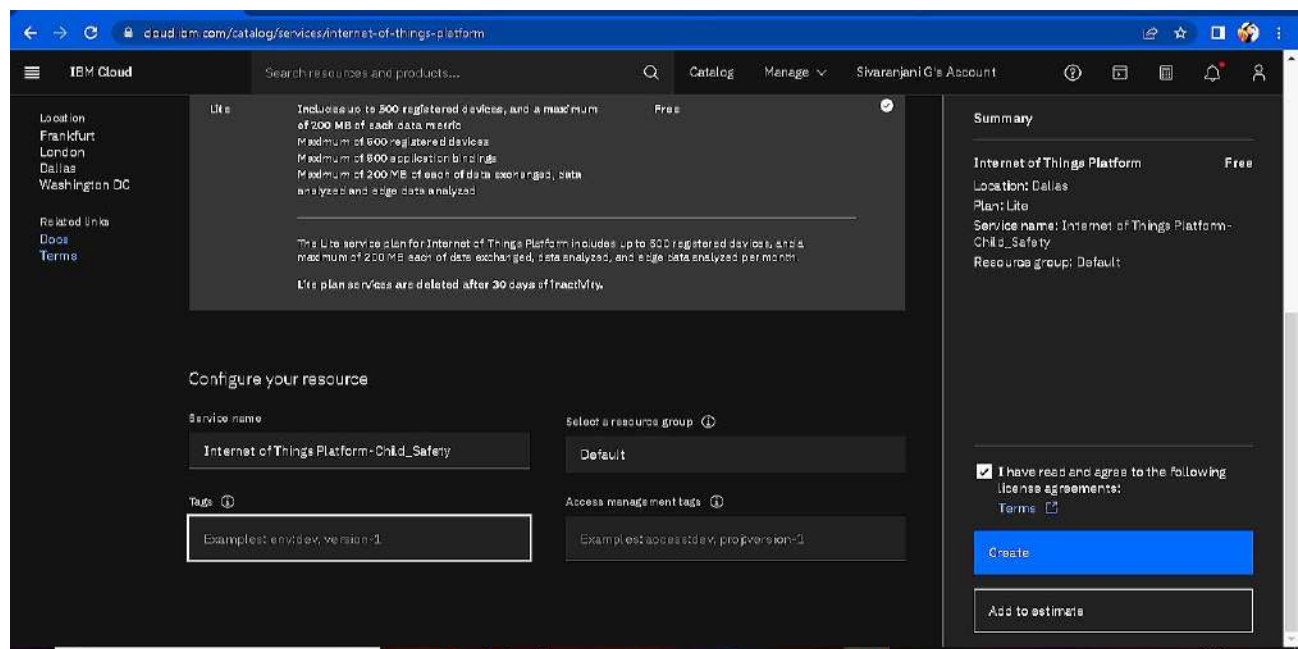
## 3. Click on the catalog on the top



## 4. Click on IoT in the category mentioned



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



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

The screenshot shows the IBM Cloud 'Internet of Things Platform' creation page. The 'Create' tab is active. The 'Select a location' dropdown is set to 'Frankfurt (eu-de)'. The 'Select a pricing plan' section shows a table with one plan, 'Lite', which is selected. The 'Summary' panel on the right shows the configuration: 'Internet of Things Platform', 'Free', 'Location: Frankfurt', 'Plan: Lite', 'Service name: Internet of Things Platform-6g', and 'Resource group: Default'. The 'I have read and agree to the following license agreement(s): Terms' checkbox is unchecked. The 'Create' button is disabled.

**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  
Updated on: 08/16/2022  
Category: Internet of Things  
Compliance: IAM-enabled

**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 500 application bindings. Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed.	Free

**Summary**  
**Internet of Things Platform** Free  
Location: Frankfurt  
Plan: Lite  
Service name: Internet of Things Platform-6g  
Resource group: Default

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

Create

Add to estimate

The screenshot shows the same IBM Cloud 'Internet of Things Platform' creation page, but with 'Dallas (us-south)' selected as the location. The 'Lite' plan is still selected. In the 'Summary' panel, the 'Location' is now 'Dallas'. The 'I have read and agree to the following license agreement(s): Terms' checkbox is now checked. The 'Create' button is now active (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  
Updated on: 08/16/2022  
Category: Internet of Things  
Compliance: IAM-enabled

**Select a location**  
Dallas (us-south)

**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 500 application bindings. Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed.	Free

**Summary**  
**Internet of Things Platform** Free  
Location: Dallas  
Plan: Lite  
Service name: Internet of Things Platform-6g  
Resource group: Default

☒ I have read and agree to the following license agreement(s): [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 services)

The screenshot shows the IBM Cloud IoT Platform console. The top navigation bar includes the IBM Cloud logo, a search bar, and links to Catalog, Manage, and the user's account. The main header displays the resource name 'Internet of Things Platform-Child\_Safety' with an 'Active' status and an 'Add tags' link. A left sidebar contains navigation options: 'Manage' (selected), 'Plan', and 'Connections'. The main content area features a large graphic with the text 'Let's get started with IBM Watson IoT Platform' and a 'Launch' button. Below this, a section titled 'Ready for the next level?' shows the 'IBM Watson IoT Platform Journey' with three stages: 'Lite' (checked), 'Non-Production', and 'Production'. Each stage has a brief description of the service plan.

The screenshot shows the IBM Cloud IoT Platform console with the 'Plan' tab selected. The main content area displays the 'Current plan' as 'Lite'. A 'Features' section lists the following details:

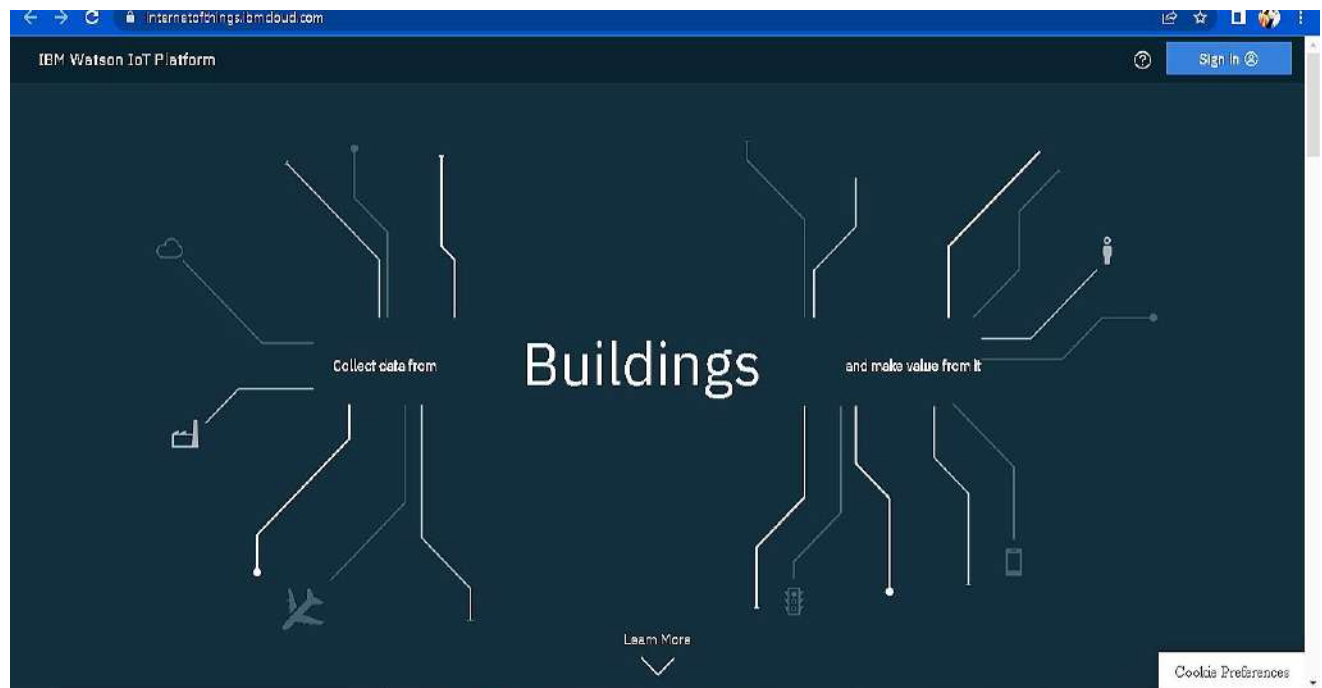
- Includes up to 500 registered devices, and a maximum of 200 MB of each data metric
- Maximum of 500 registered devices
- Maximum of 500 application bindings
- Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed

To the right, the 'Current usage' section shows 'N/A' and a note: 'Lite plan services are deleted after 30 days of inactivity.' At the bottom, a 'Change pricing plan' section contains a table with the following data:

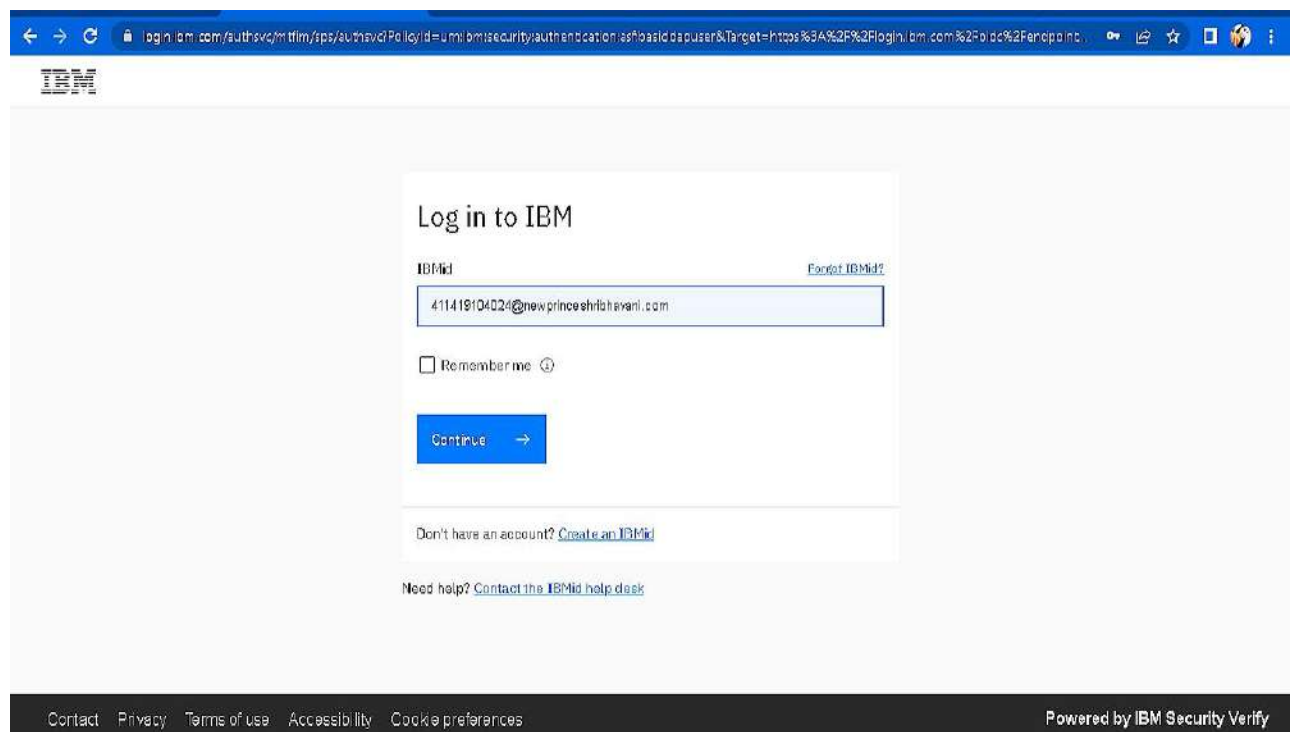
Plan	Features	Pricing
Lite	Includes up to 500 registered devices, and a maximum of 200 MB of each data metric	Free



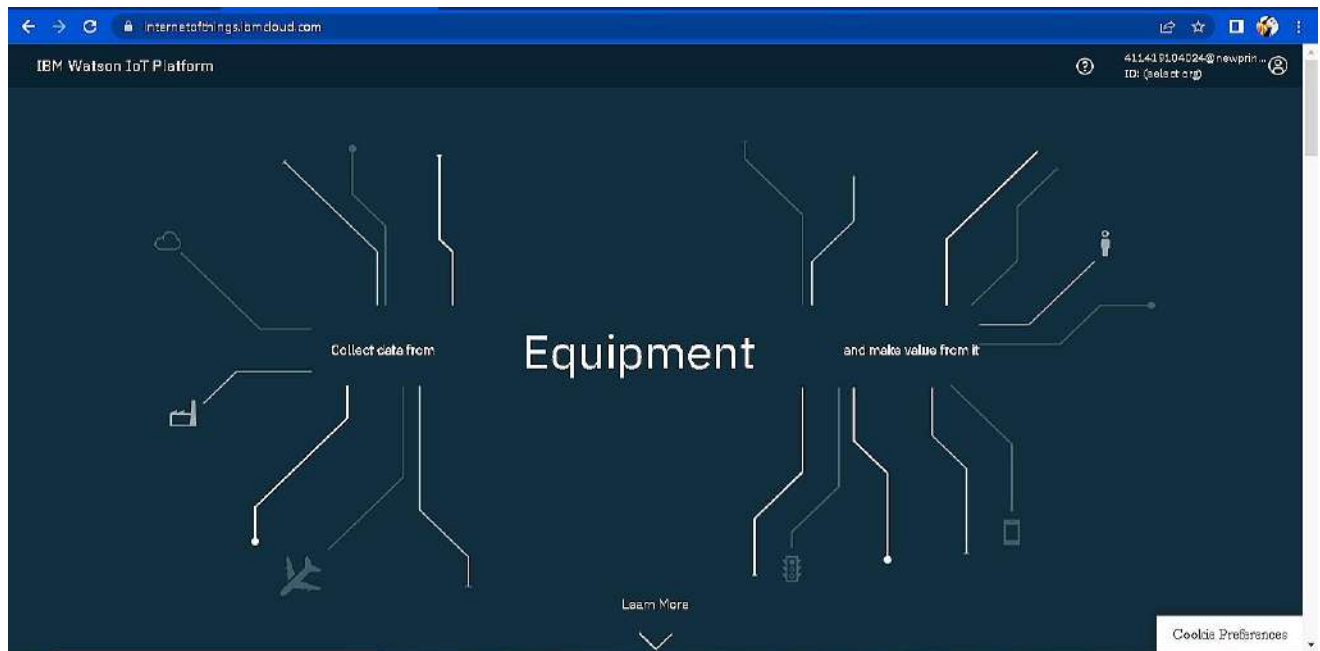
8. Clicking on the launch button in the manage tab, it will open to this



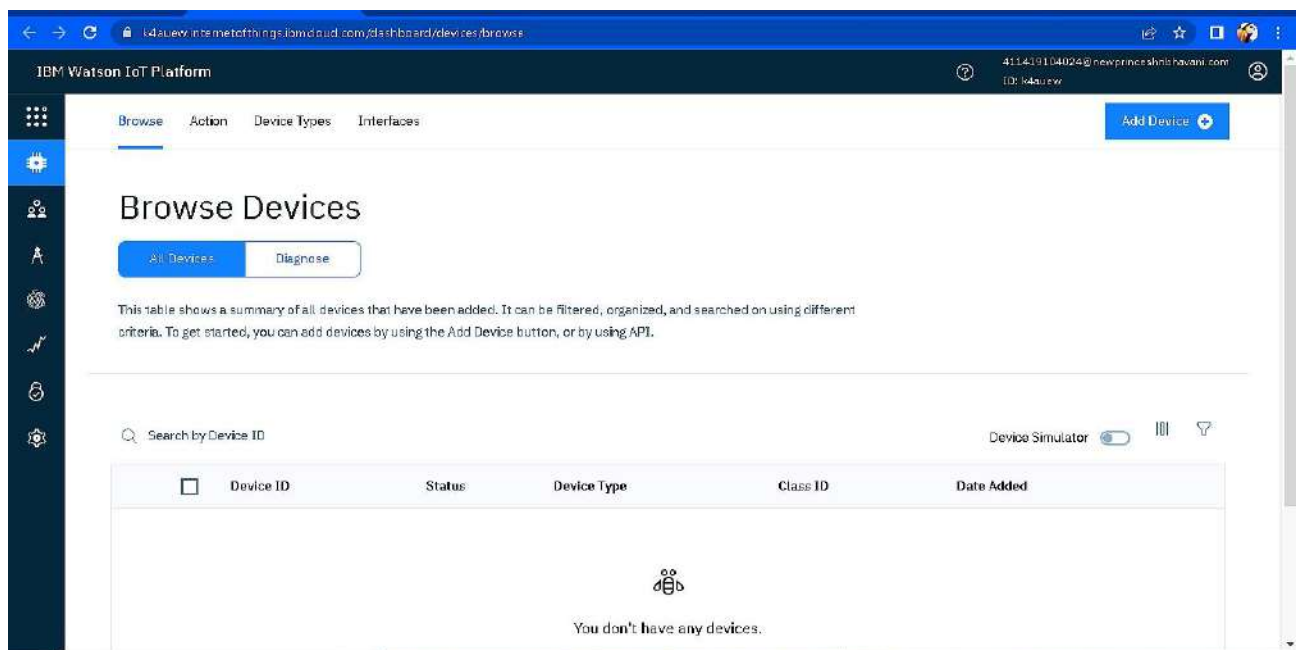
9. Enter the details to sign in to the Watson Cloud to create a device



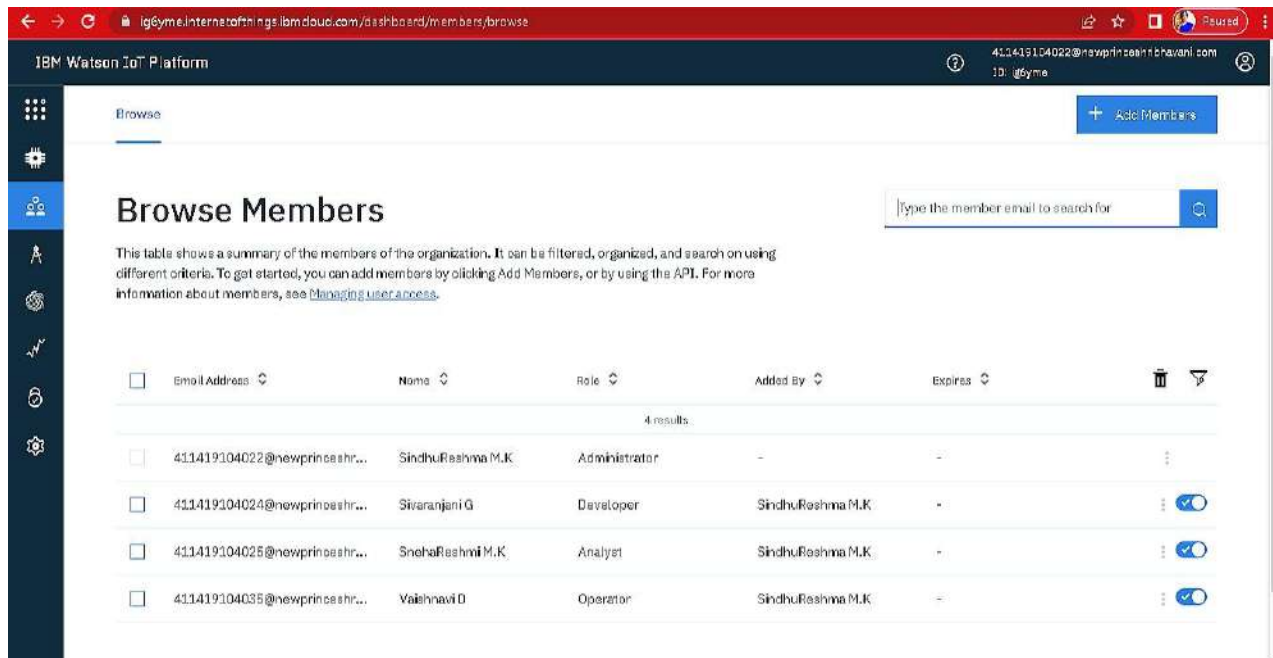
10. Once logged in the name will be displayed and it goes back to the first page



11. 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



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



IBM Watson IoT Platform

Browse

+ Add Members

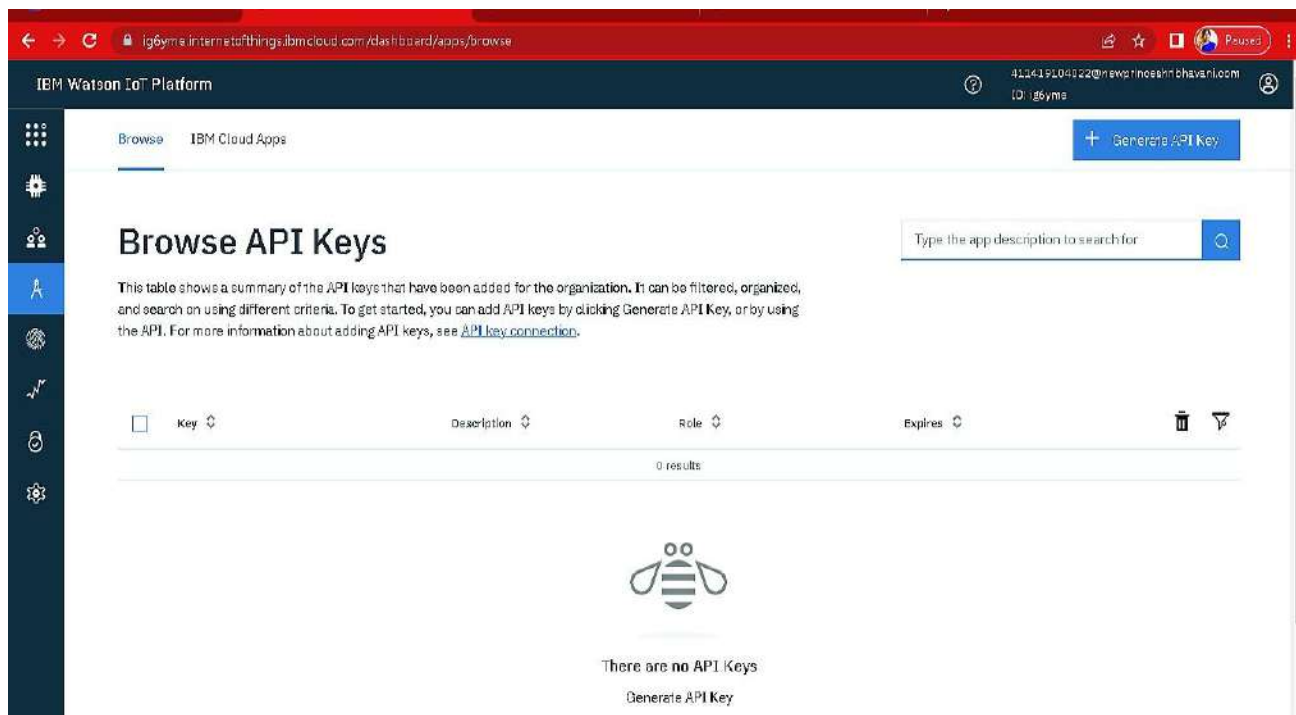
### Browse Members

Type the member email to search for

This table shows a summary of the members of the organization. It can be filtered, organized, and search on using different criteria. To get started, you can add members by clicking Add Members, or by using the API. For more information about members, see [Managing user access](#).

<input type="checkbox"/>	Email Address	Name	Role	Added By	Expires	
4 results						
<input type="checkbox"/>	411419104022@newprincean...@gmail.com	SindhuRashma M.K.	Administrator	-	-	
<input type="checkbox"/>	411419104024@newprincean...@gmail.com	Sivaranjani G.	Developer	SindhuRashma M.K.	-	<input checked="" type="checkbox"/>
<input type="checkbox"/>	411419104025@newprincean...@gmail.com	SnehaRashmi M.K.	Analyst	SindhuRashma M.K.	-	<input checked="" type="checkbox"/>
<input type="checkbox"/>	411419104035@newprincean...@gmail.com	Vaishnavi D.	Operator	SindhuRashma M.K.	-	<input checked="" type="checkbox"/>

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



IBM Watson IoT Platform

Browse IBM Cloud Apps


+ Generate API Key

### Browse API Keys

Type the app description to search for

This table shows a summary of the API keys that have been added for the organization. It can be filtered, organized, and search on using different criteria. To get started, you can add API keys by clicking Generate API Key, or by using the API. For more information about adding API keys, see [API key connection](#).

<input type="checkbox"/>	Key	Description	Role	Expires	
0 results					



There are no API Keys

Generate API Key



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

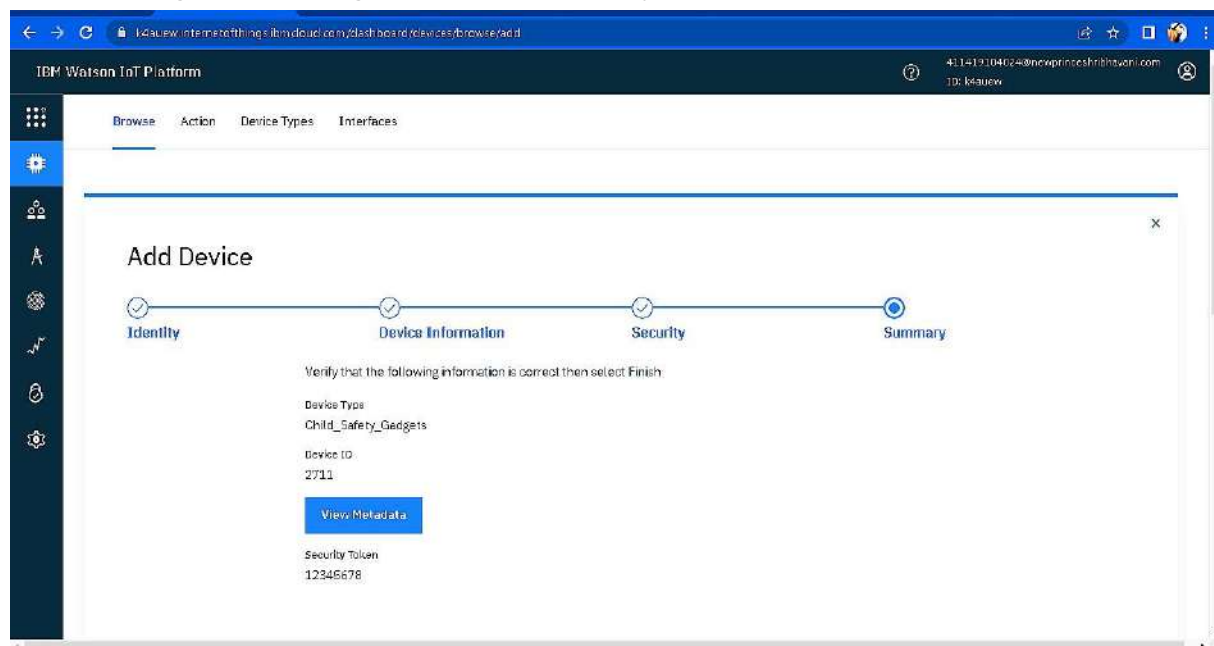
The screenshot shows the 'Add Device' page in the IBM Watson IoT Platform. The page has a dark blue header with the IBM Watson IoT Platform logo and a user profile. Below the header, there are tabs: 'Browse', 'Action', 'Device Types', and 'Interfaces'. The 'Add Device' section is active, showing a progress bar with four steps: 'Identity' (selected), 'Device Information', 'Security', and 'Summary'. Below the progress bar, 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 a dropdown menu showing 'Select or create a device type...' and 'Device ID' with a text input field 'Enter Device ID'. At the bottom right, there are 'Cancel' and 'Next' buttons. Below the 'Add Device' section, there is a 'Browse Devices' section with 'All Devices' and 'Diagnose' buttons.

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

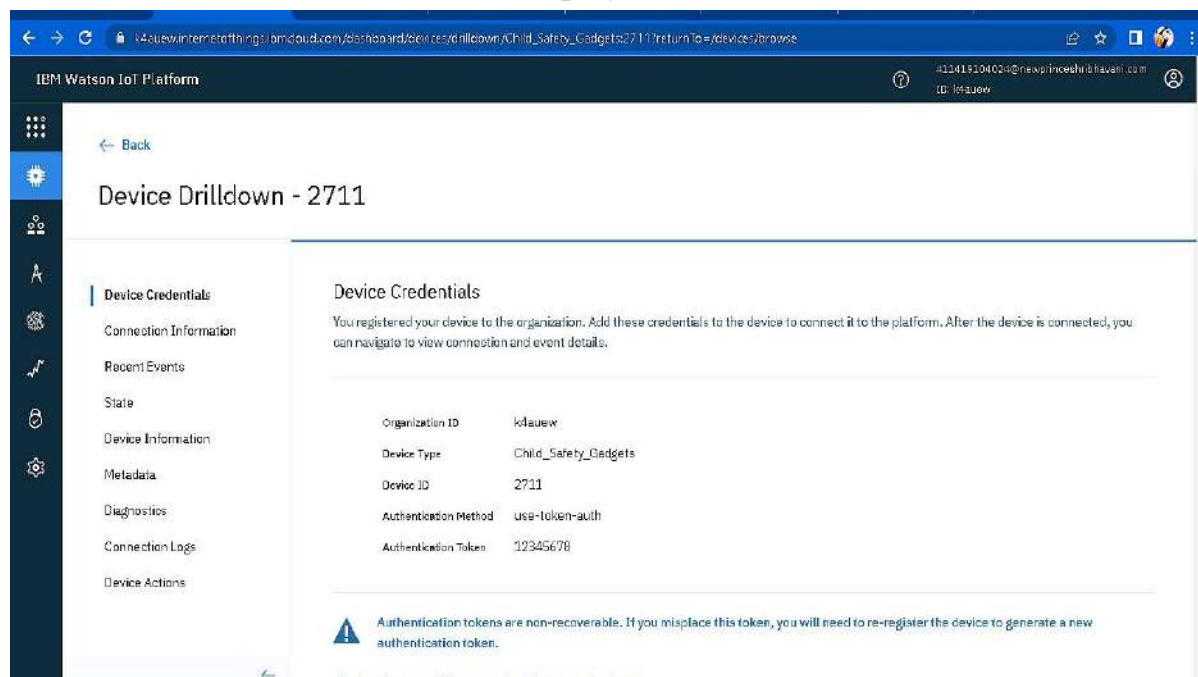
The screenshot shows the 'Add Device' page in the IBM Watson IoT Platform, specifically the 'Device Information' step. The progress bar now shows 'Identity' as completed and 'Device Information' as the current step. Below the progress bar, there is a text prompt: 'You can modify the default device information and enter more information about the device for identification purposes.' There are several input fields for device details: '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), and 'Descriptive Location' (Enter Descriptive Location). At the bottom left, there is an 'Add Metadata' button with a plus icon. At the bottom right, there are 'Back' and 'Next' buttons.

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

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



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



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

19. 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.

IBM Watson IoT Platform

411419104024@newprinceshribhavani.com  
ID: k4auew

Browse Action Device Types Interfaces

Add Device +

## Browse Devices

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device Simulator

Device ID	Status	Device Type	Class ID	Date Added
2711	Disconnected	Child_Safety_Gadgets	Device	Oct 30, 2022 9:00 PM

Items per page 50 | 1-1 of 1 item

1 of 1 page

IBM Watson IoT Platform

411419104022@newprinceshribhavani.com  
ID: k4auew

Browse Action Device Types Interfaces

Add Device +

criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device Simulator

Device ID	Status	Device Type	Class ID	Date Added
2711	Disconnected	Child_Safety_Gadgets	Device	Oct 30, 2022 9:00 PM

Identity Device Information Recent Events State Logs

Device ID 2711

Device Type Child\_Safety\_Gadgets

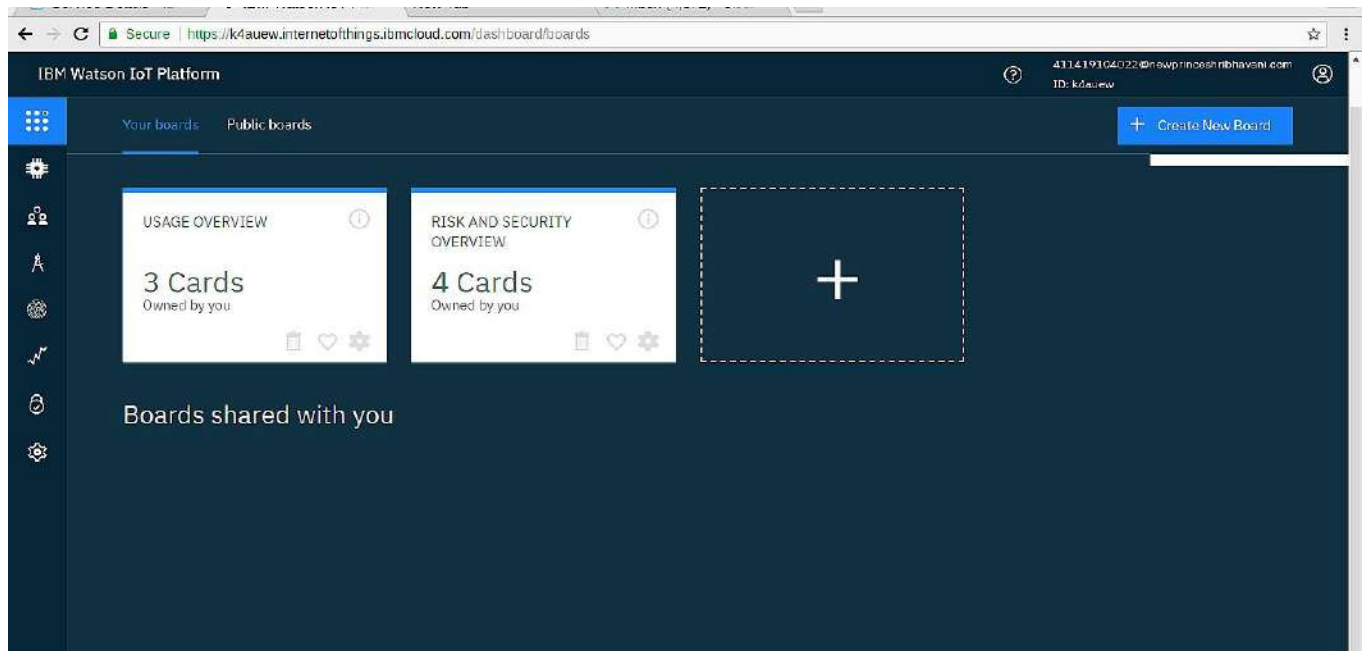
Date Added Oct 30, 2022 9:00 PM

Added By 411419104024@newprinceshribhavani.com

Connection Status Disconnected

In a similar way, we can create n number of devices with a 50 per page limit as per the requirement of our project.

20..The Boards will display card for the project.



## **RESULT:**

An IBM Watson cloud for IoT and a device is created

**TEAM ID : PNT2022TMID37924**  
**TEAM LEADER : M. K. SINDHU RESHMA**  
**TEAM MEMBER 1 : G.SIVARANJANI**  
**TEAM MEMBER 2 : M. K.SNEHA RESHMA**  
**TEAM MEMBER 3 : D. VAISHNAVI**  
**TEAM SIZE : 4**

**MENTOR : G. SIMI MARGARET**