

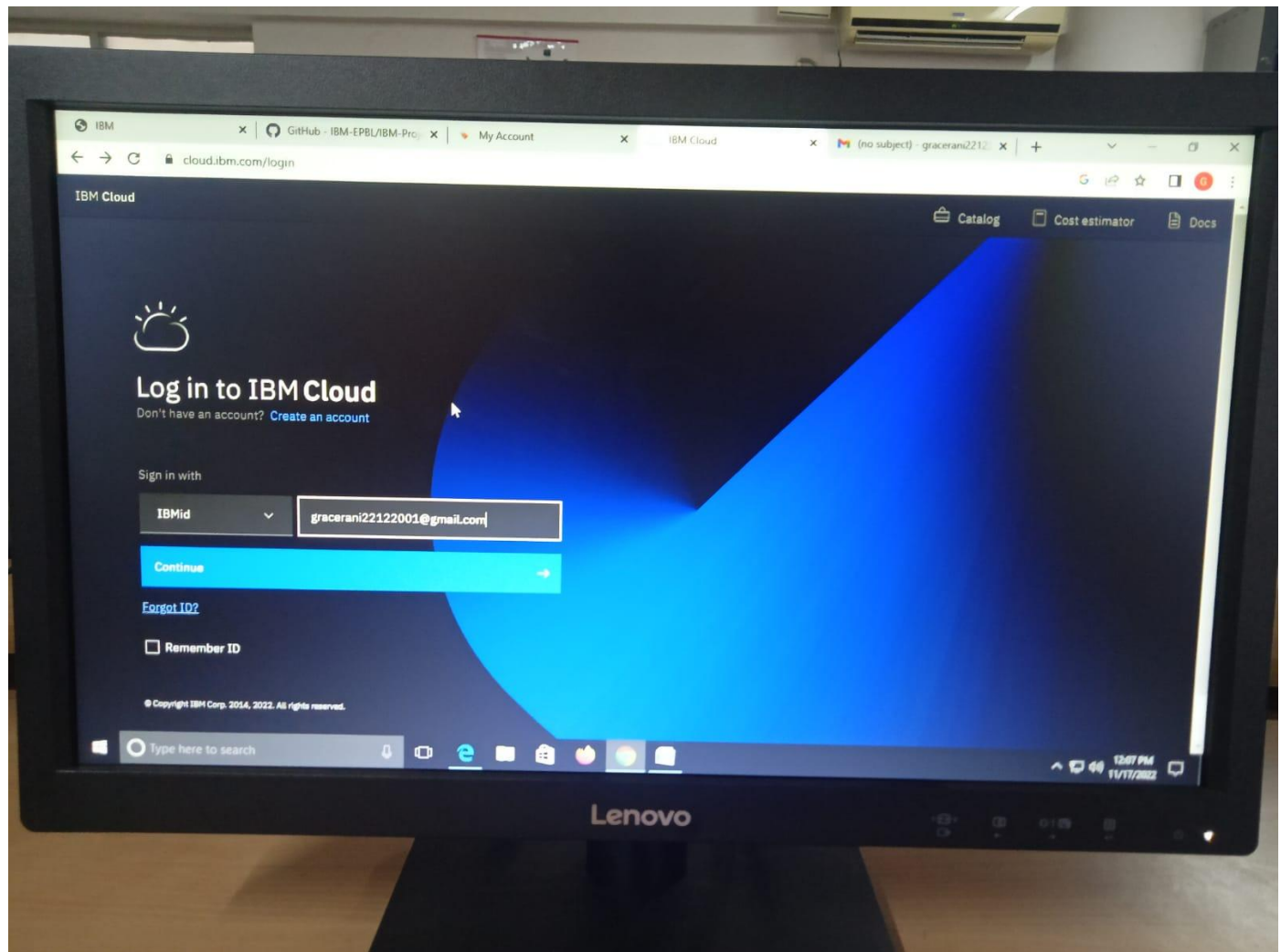
## Create And Configure IBM Cloud Service

### Create IBM Watson IoT Platform And Device

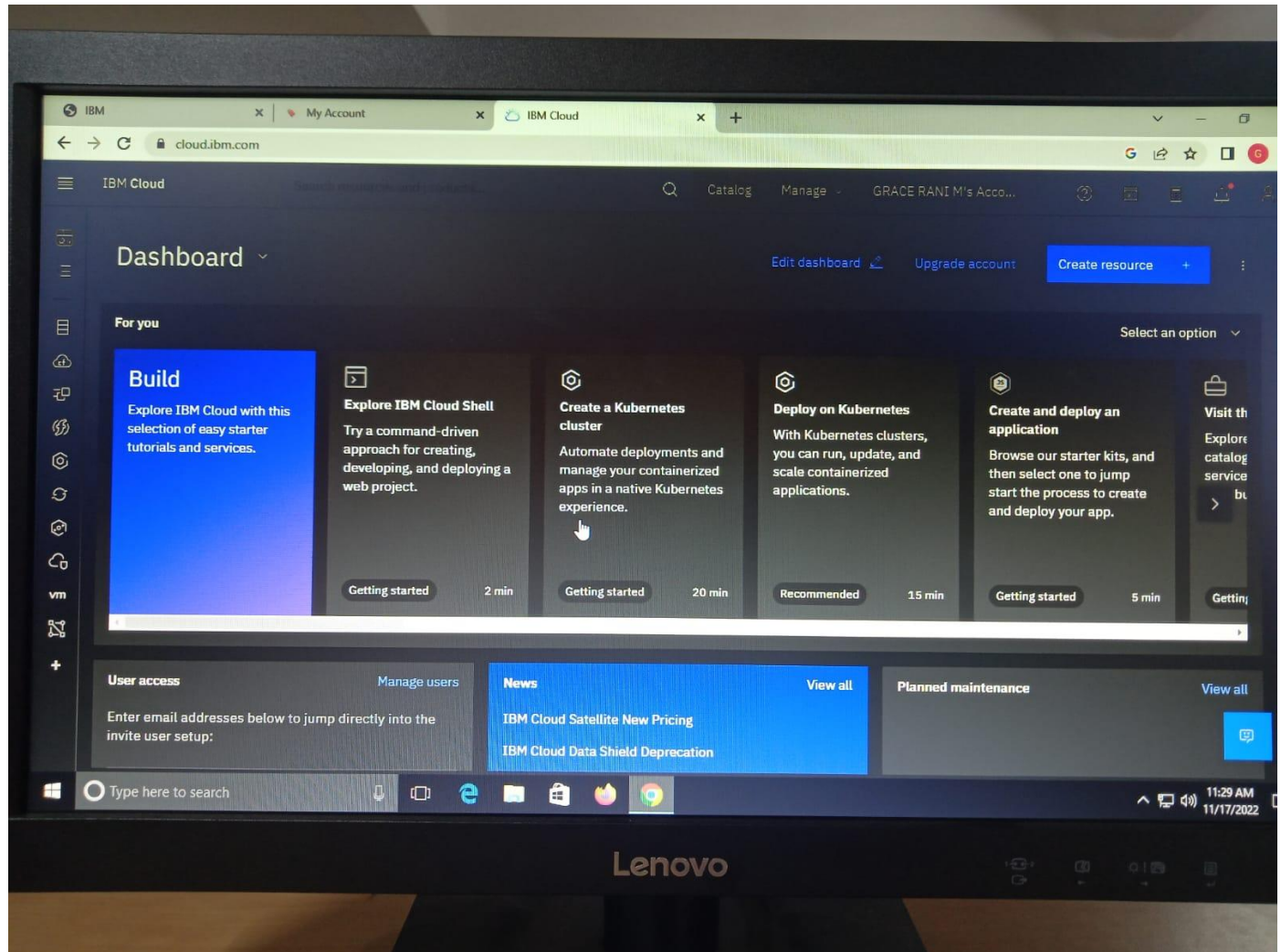
Date	24 October 2022
Team ID	PNT2022TMID44697
Project Name	IoT Based Safety Gadget For Child Safety Monitoring & Notification
Maximum Marks	4 Marks

## STEPS

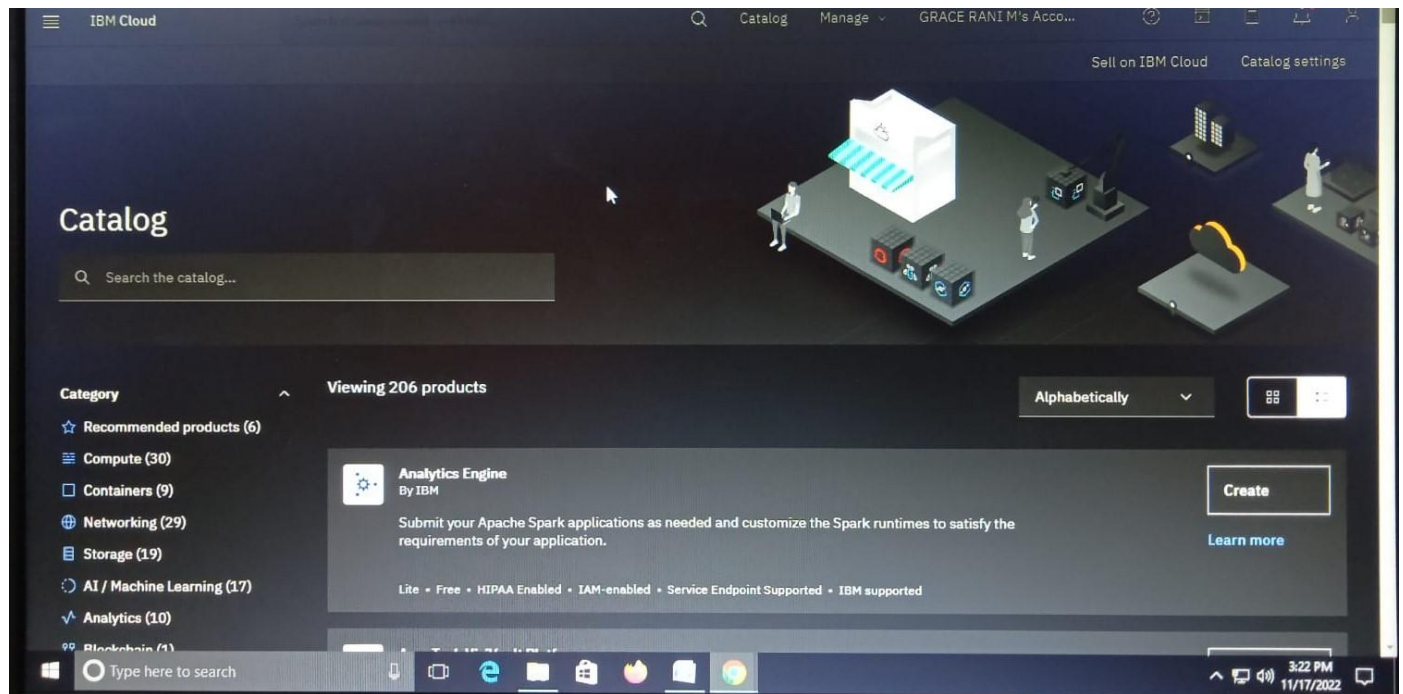
1. Firstly create an IBM cloud account with IBMid and password



## 2. Home page of IBM cloud



3. Click on the catalog on the top



#### 4. Click on IoT in the category mentioned

The screenshot shows the IBM Cloud IoT Platform service page. 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 page is divided into several sections:

- Summary:** Displays the service name "Internet of Things Platform", location "Frankfurt", plan type "Free", and resource group "Default".
- Location Selection:** A dropdown menu showing "Frankfurt (eu-de)".
- Pricing Plan Selection:** A section titled "Select a pricing plan" with a note: "Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)."
- Plan Table:** A table with columns "Plan", "Features", and "Pricing". The "Lite" plan is selected, showing features like "Includes up to 200 registered devices, and a maximum of 200 MB of each data matrix" and a "Free" price.
- Compliance:** A section indicating "IAM-enabled".
- Location:** A list of locations: "Frankfurt", "London", and "Dallas".
- Buttons:** "Create" and "Add to estimate" buttons.

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

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

The screenshot shows the IBM Cloud catalog page for the Internet of Things Platform. The page is divided into several sections:

- Header:** Includes the IBM Cloud logo, a search bar, and navigation links for Catalog, Manage, and the user's account (Sharanjani G's Account).
- Left Sidebar:** Contains a list of locations (Frankfurt, London, Dallas, Washington DC) and related links (Docs, Terms).
- Main Content Area:**
  - Plan Selection:** A table comparing the Lite and Free plans. The Lite plan is selected and highlighted in blue. It includes up to 500 registered devices, a maximum of 200 MB of each data transfer, a maximum of 600 registered devices, a maximum of 600 application bindings, a maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed.
  - Configure your resource:** A section with four input fields:
    - Service name:** Internet of Things Platform-Child\_Safety
    - Select a resource group:** Default
    - Tags:** Example: env:dev, version:1
    - Access management tags:** Example: access:dev, provision:1
- Summary:** A section on the right side of the main content area, showing the selected plan (Lite) and the service name (Internet of Things Platform-Child\_Safety). It also includes a checkbox for "I have read and agree to the following license agreements:" and a "Create" button.



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. Under 'Select a location', 'Frankfurt (eu-de)' is selected. Under 'Select a pricing plan', the 'Free' plan is chosen. The summary on the right shows the service name as 'Internet of Things Platform-6g' and the resource group as 'Default'. The 'I have read and agree to the following license agreements' checkbox is unchecked.

IBM Cloud

Search resources and products...

Catalog Manage Sivaranjani G'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

Updated on: 08/16/2022

Category: Internet of Things

Compliance: IAM-enabled

Location: Frankfurt, London, Dallas

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
Free	Includes up to 500 registered devices, and a maximum of 200 MB of each data matrix. 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

Summary

Internet of Things Platform Free

Location: Frankfurt

Plan: Free

Service name: Internet of Things Platform-6g

Resource group: Default

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

Create

Add to estimate

This screenshot shows the same IBM Cloud 'Internet of Things Platform' creation page, but with 'Dallas (us-south)' selected as the location. The 'Free' plan remains selected. In the summary, the location is now 'Dallas'. The 'I have read and agree to the following license agreements' checkbox is now checked. The 'Create' button is highlighted in blue.

IBM Cloud

Search resources and products...

Catalog Manage Sivaranjani G'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

Updated on: 08/16/2022

Category: Internet of Things

Compliance: IAM-enabled

Location: Frankfurt, London, Dallas, Washington DC

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
Free	Includes up to 500 registered devices, and a maximum of 200 MB of each data matrix. 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

Summary

Internet of Things Platform Free

Location: Dallas

Plan: Free

Service name: Internet of Things Platform-6g

Resource group: Default

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

Create

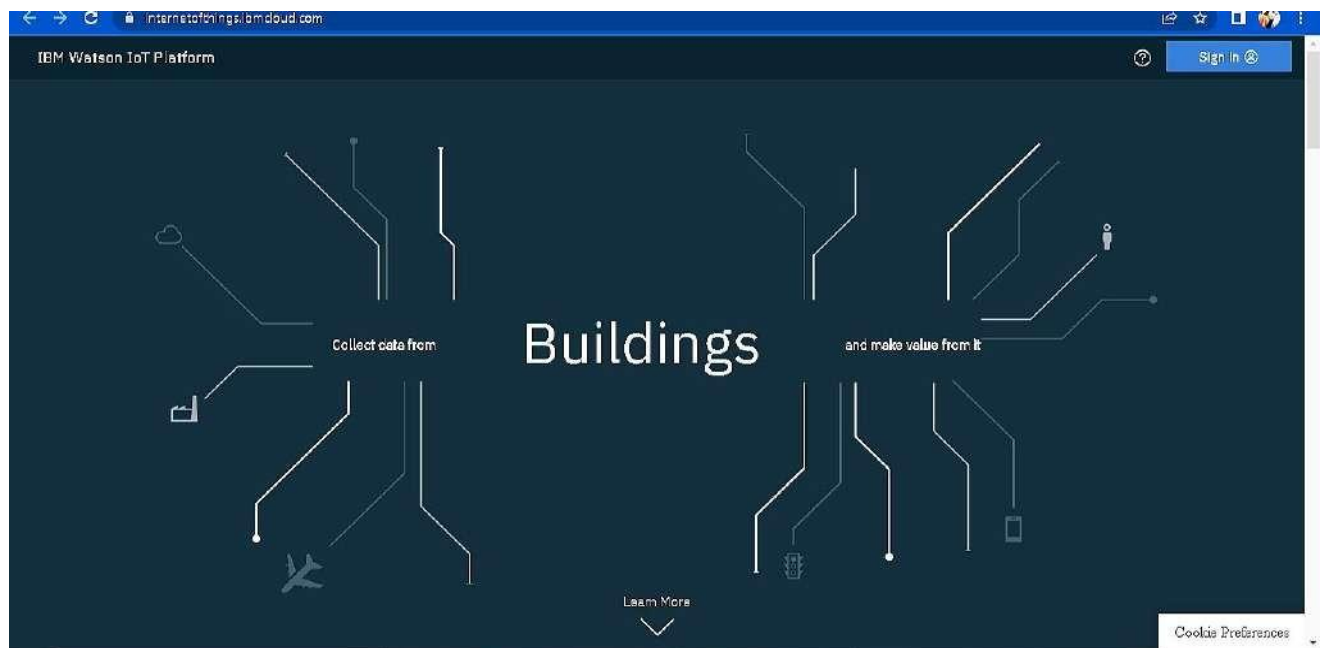
Add to estimate

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 services)

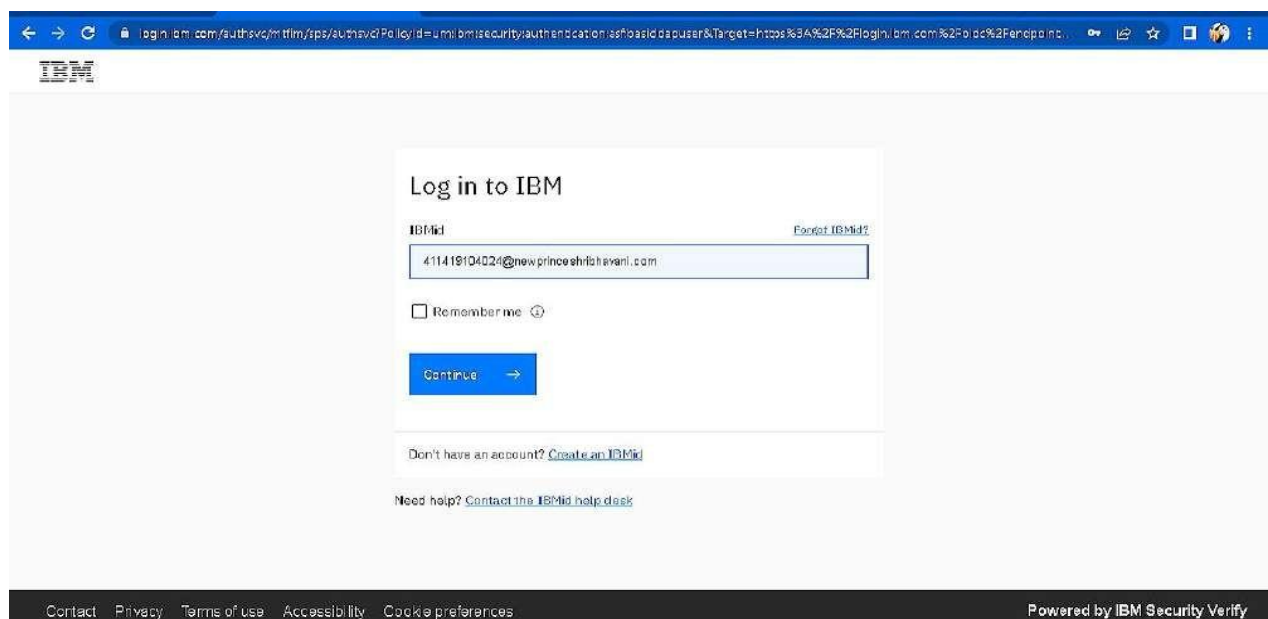
The screenshot displays the IBM Cloud IoT Platform console. The top navigation bar includes the IBM Cloud logo, a search bar, and links to Catalog, Manage, and the user's account (Swaranjani G's Account). The main content area is titled 'Internet of Things Platform-Child\_Safety' and shows it is 'Active'. A left sidebar contains links for Manage, Plan (selected), and Connections. The 'Plan' section displays the 'Current plan' as 'Lite' and 'Current usage' as 'N/A'. It lists features: up to 500 registered devices, 200 MB of data metrics, 500 application bindings, and 200 MB of data exchanged/analyzed. A 'Change pricing plan' section at the bottom shows a table with the 'Lite' plan and its features.

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

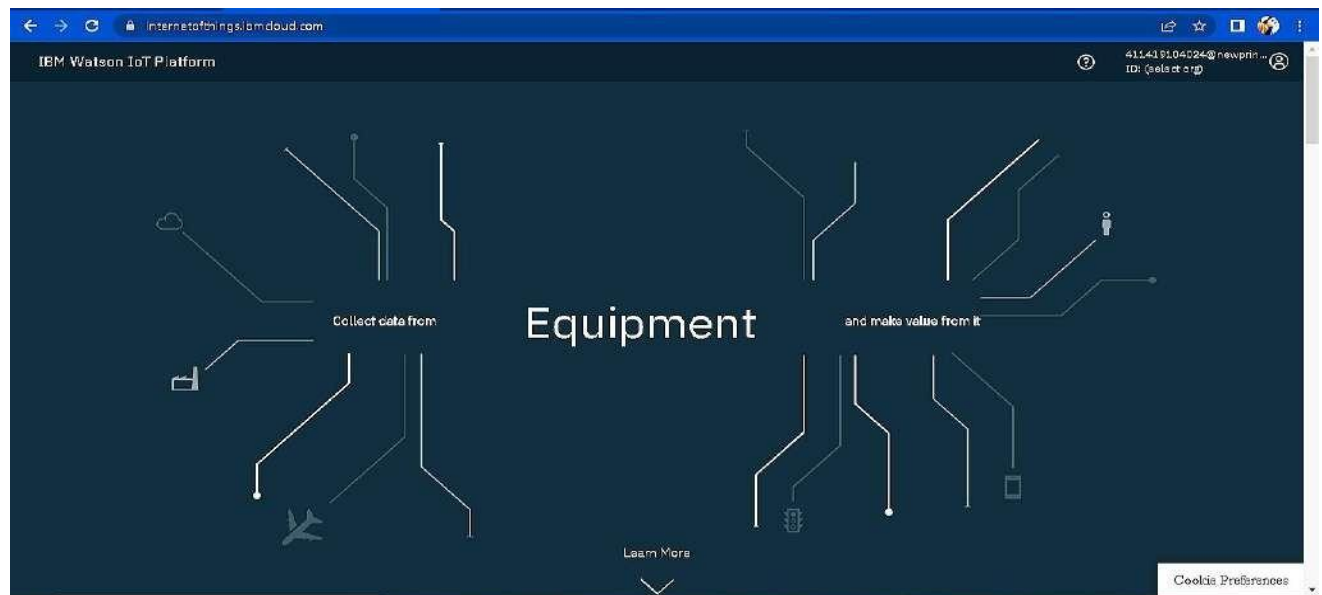


9. Enter the details to sign in to the Watson Cloud to create a device

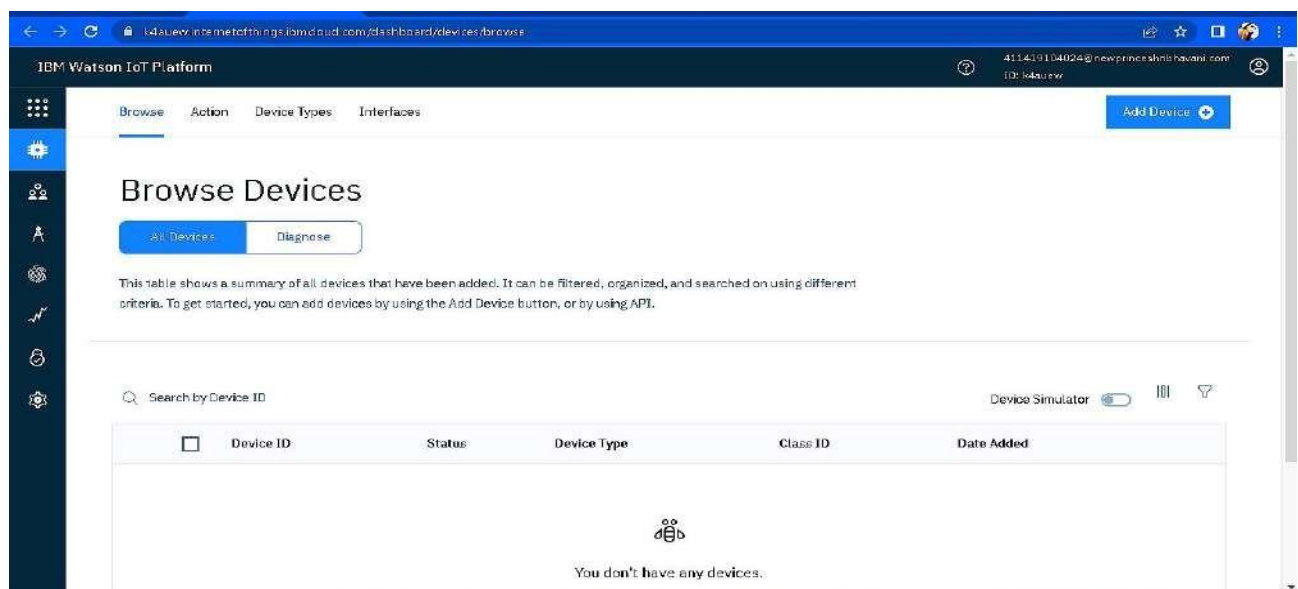




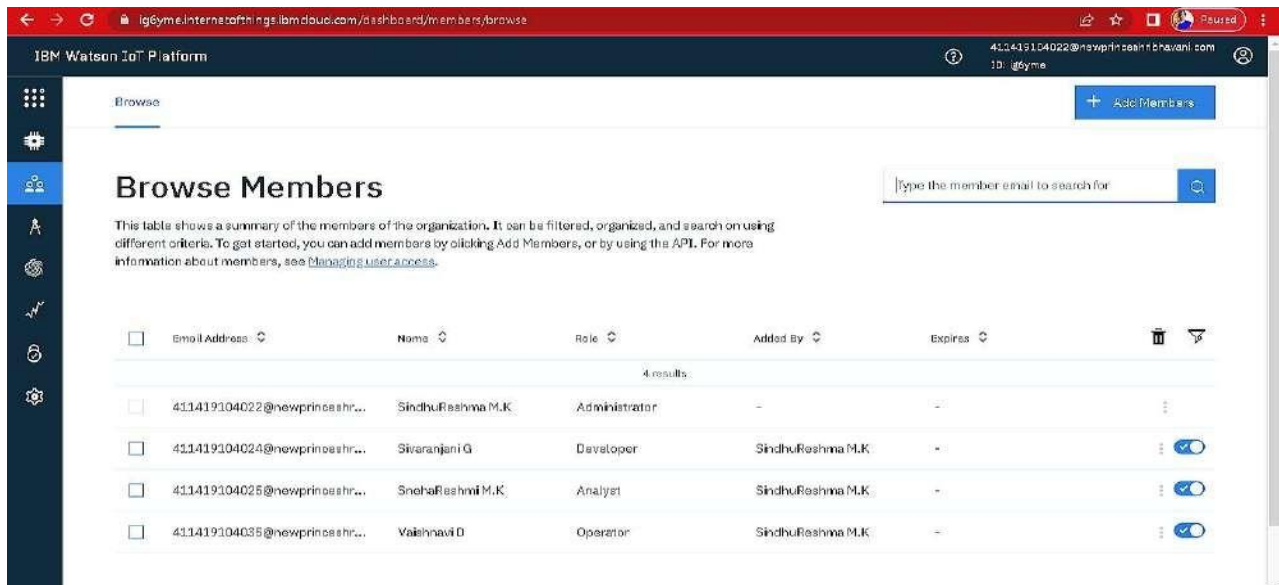
10. Once logged in the name will be displayed and it goes back to the first page



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

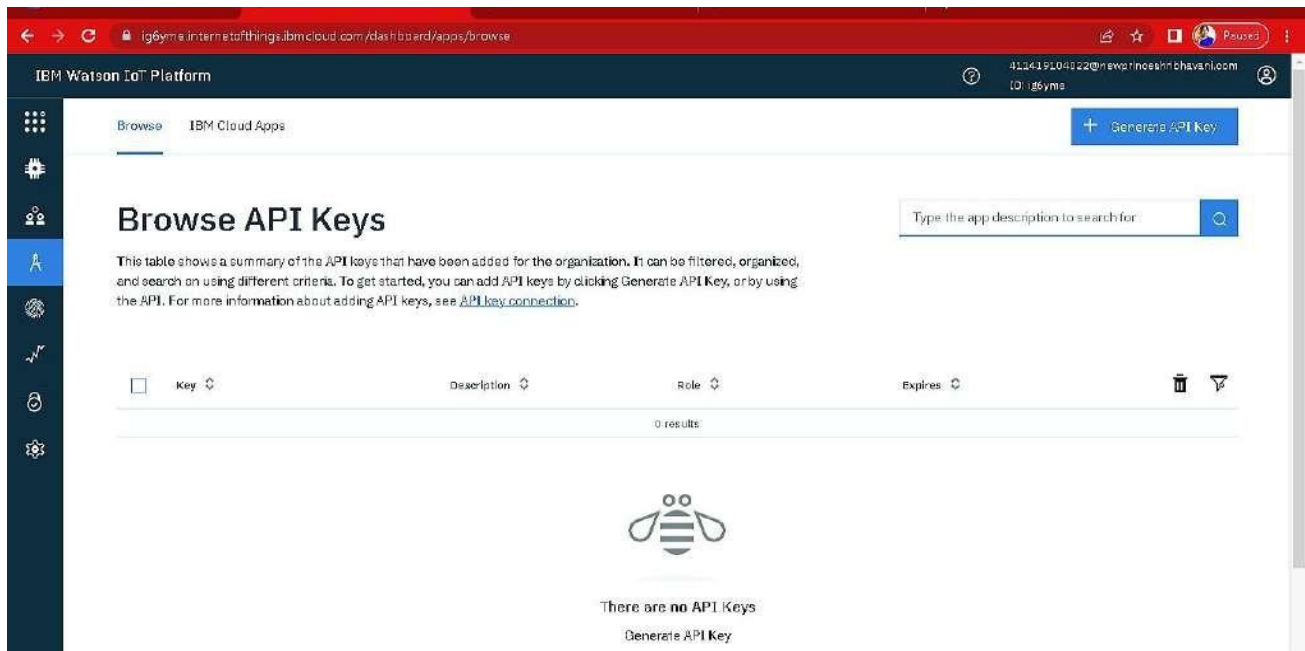
### Browse Members

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@newprinceashr...	SindhuRashma M.K.	Administrator	-	-	
<input type="checkbox"/>	411419104024@newprinceashr...	Sivaranjani G.	Developer	SindhuRashma M.K.	-	<input checked="" type="checkbox"/>
<input type="checkbox"/>	411419104025@newprinceashr...	SnehaRashmi M.K.	Analyst	SindhuRashma M.K.	-	<input checked="" type="checkbox"/>
<input type="checkbox"/>	411419104035@newprinceashr...	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

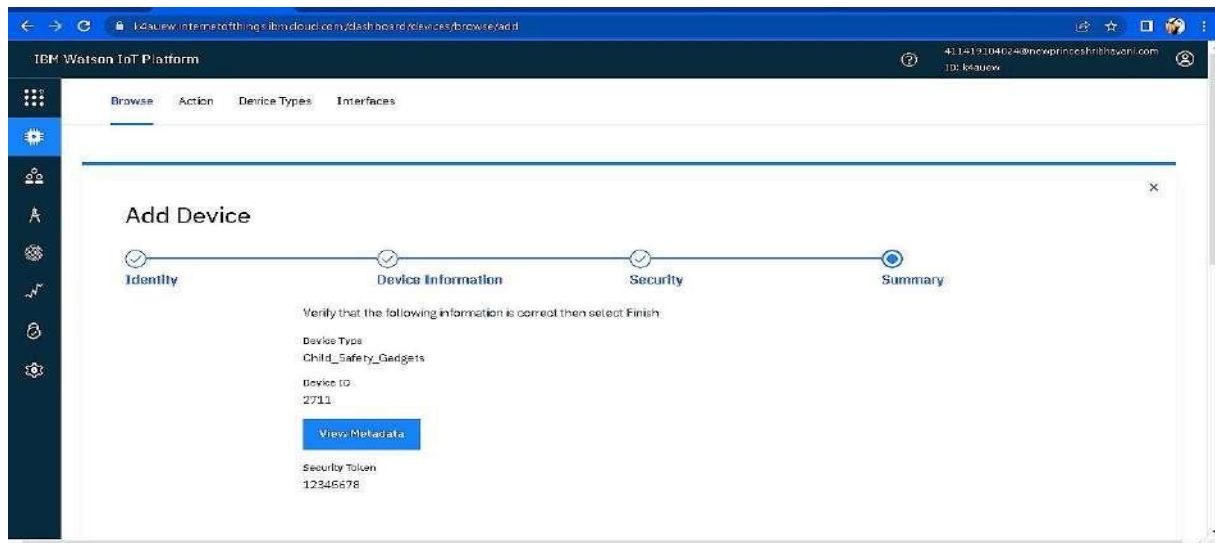
The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The 'Identity' step is active, indicated by a blue circle and a checkmark. The wizard consists of four steps: Identity, Device Information, Security, and Summary. Below the step indicator, a message reads: 'Select a device type 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 wizard, there is a 'Browse Devices' section with 'All Devices' and 'Diagnose' buttons.

device type and device id and click next

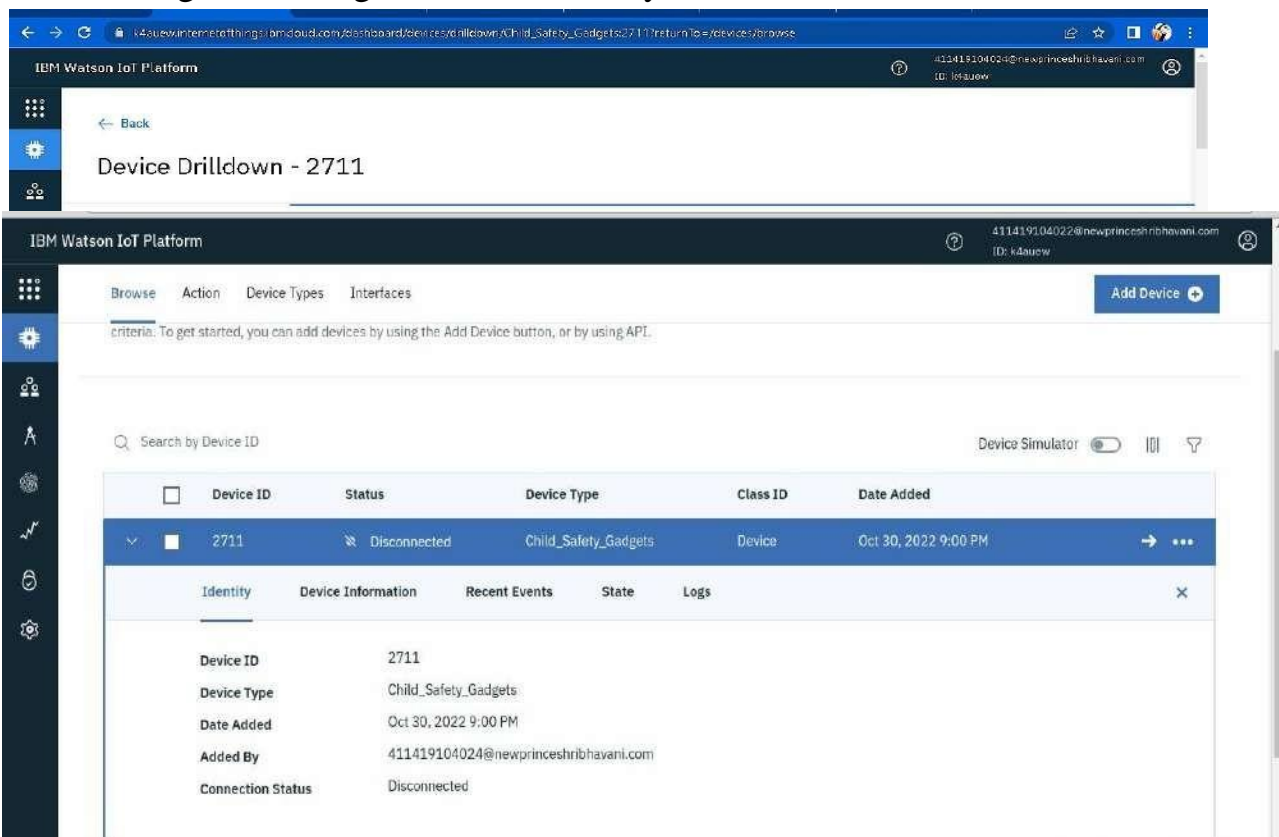
15. This page to enter extra details and of the hardware

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform, now at the 'Device Information' step. The 'Identity' step is completed with a checkmark, and 'Device Information' is the active step with a blue circle. The message reads: '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 includes: 'Serial Number' (text input 'Enter Serial Number'), 'Model' (text input 'Enter Model'), 'Description' (text input 'Enter Description'), and 'Hardware Version' (text input 'Enter Hardware Version'). The right column includes: 'Manufacturer' (text input 'Enter Manufacturer'), 'Device Class' (text input 'Enter Device Class'), 'Firmware Version' (text input 'Enter Firmware Version'), and 'Descriptive Location' (text input 'Enter Descriptive Location'). At the bottom left of the form area is an 'Add Metadata' button with a plus icon. At the bottom right 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@newprincehnbhewani.com  
ID: ksauew

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

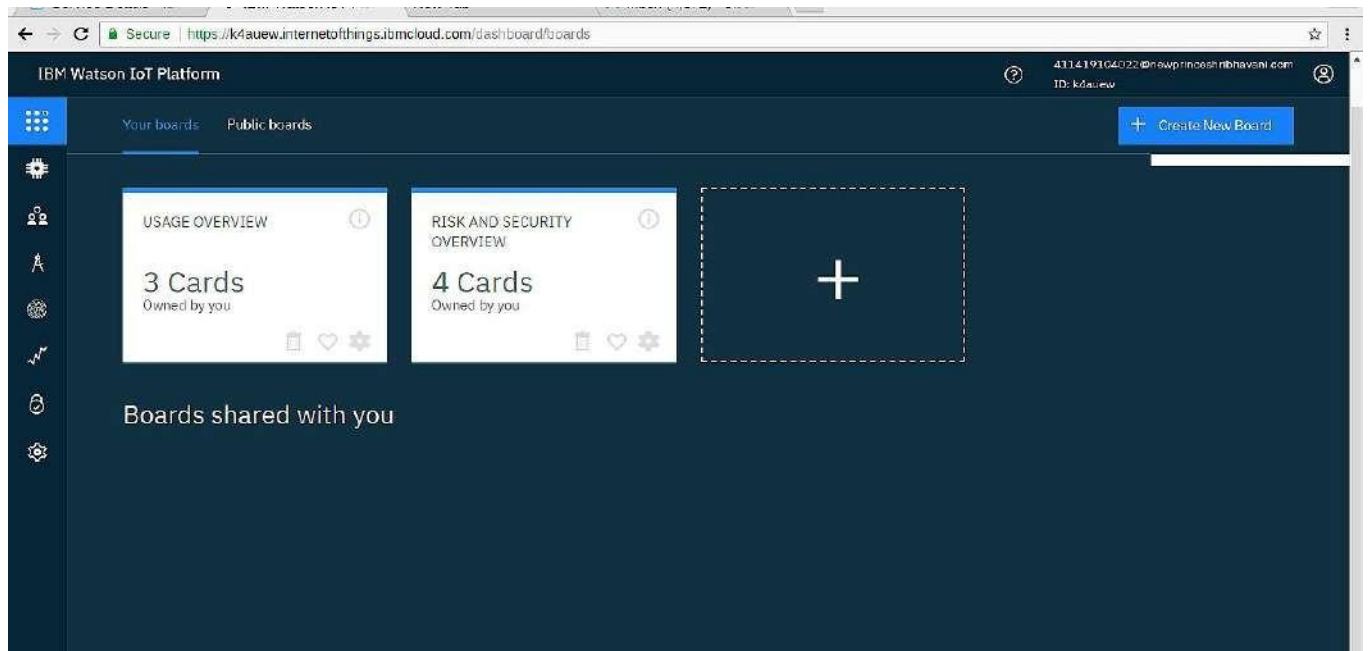
	Device ID	Status	Device Type	Class ID	Date Added
>	2711	Disconnected	Child_Safety_Gadgets	Device	Oct 30, 2022 9:00 PM

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

1 of 1 page

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



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**TEAM MEMBER 1 : S.ELAKKIYA**

**TEAM MEMBER 2 : M.PAVITHRA**

**TEAM MEMBER 3 :A.SUMITHRA**

**TEAM SIZE : 4**

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