

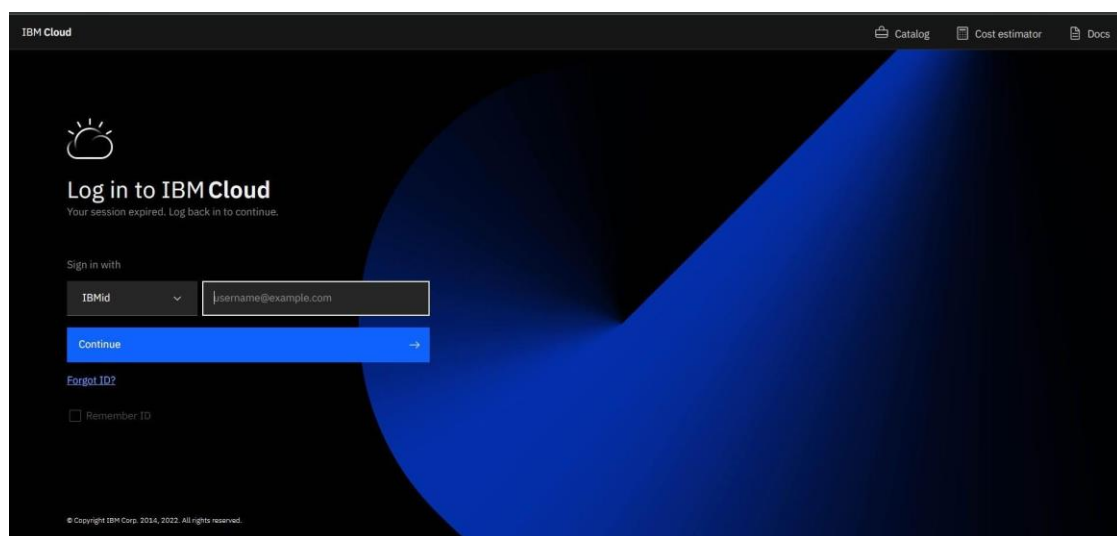
CREATE IBM WATSON IOT PLATFORM AND DEVICE

Date	03-11-2022
Team ID	PNT2022TMID07818
Project Name	IOT based safety gadget for Child safety monitoring and notification
Maximum Marks	4 Marks
Submitted By	Aravind. C Melsiya. S Sriragavi. S Sneha. R

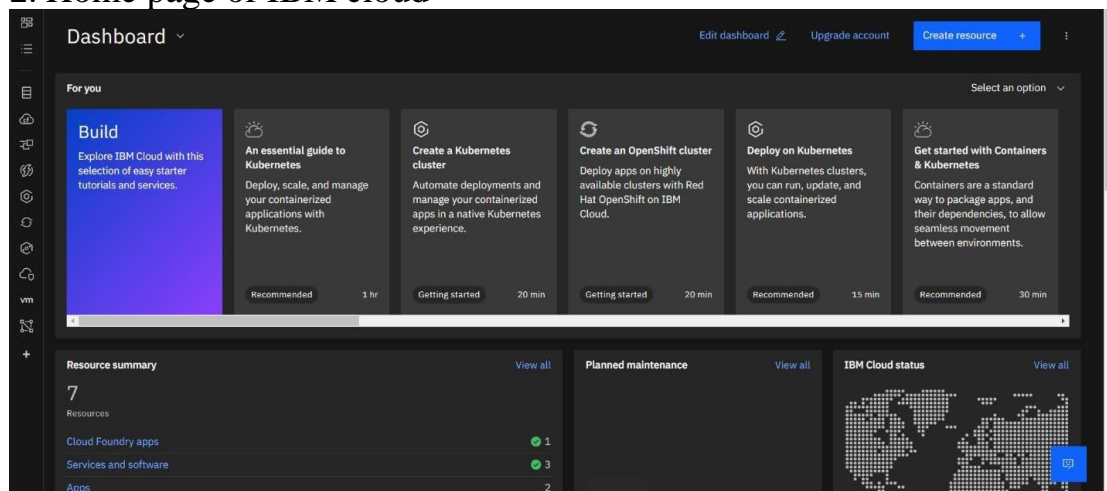
1. To create the IBM Watson IOT platform and device

STEPS:

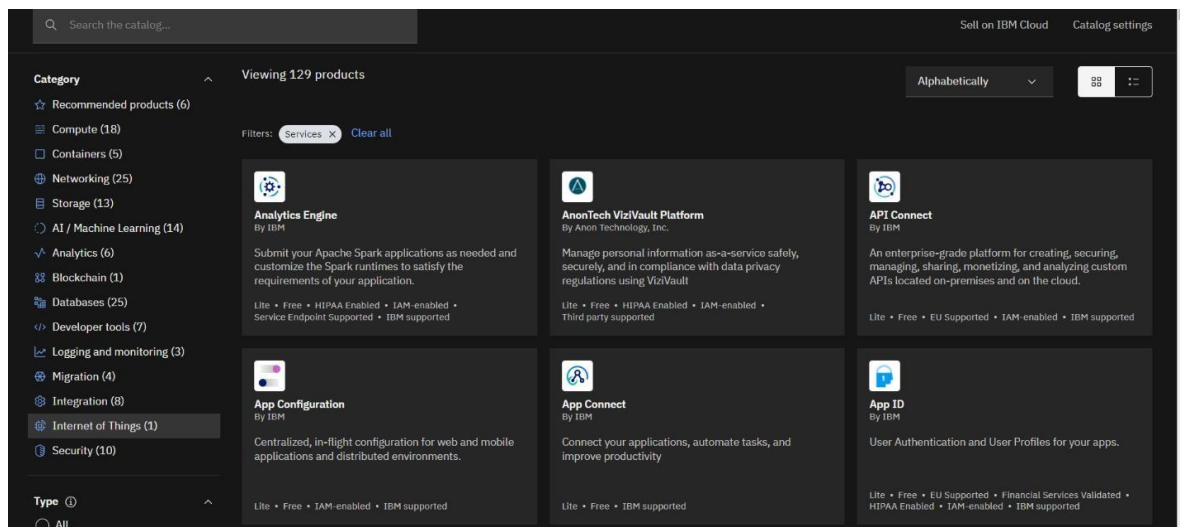
1. create an IBM cloud account with the individual IBM id and password



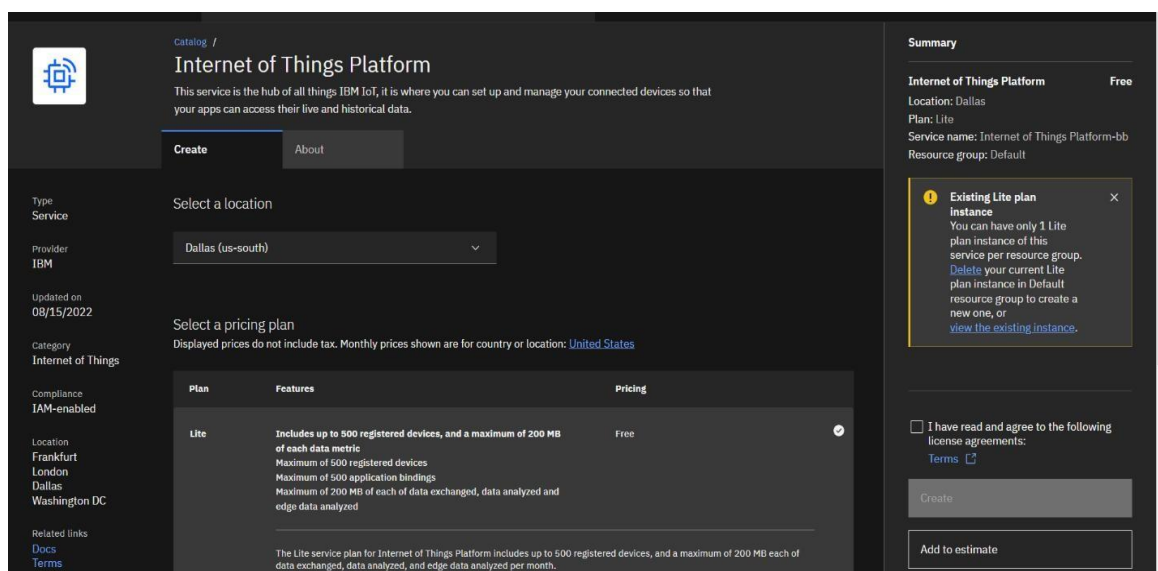
2. Home page of IBM cloud



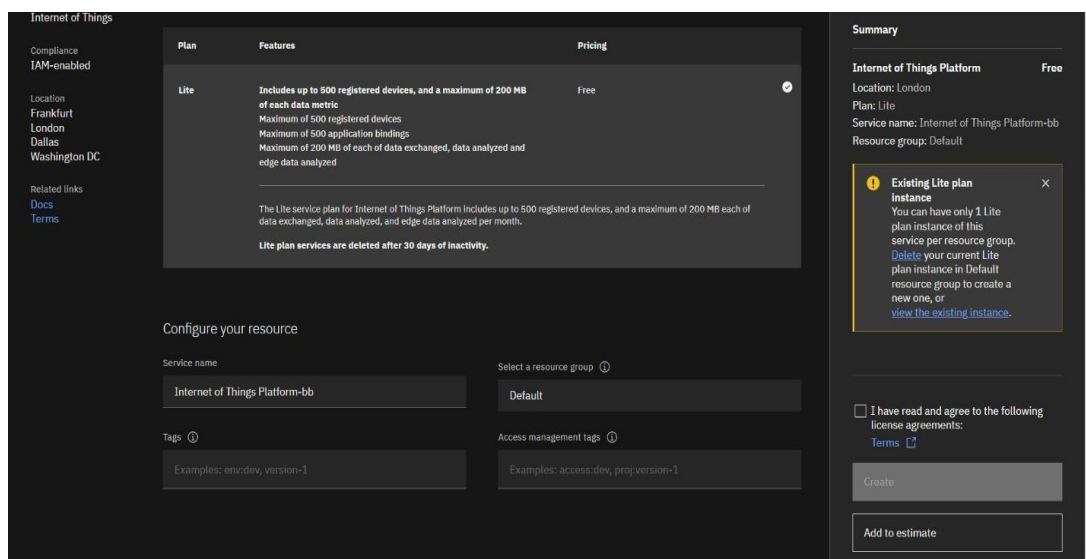
3. Click on the catalog on the top



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 agreements and then click on create

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: 08/15/2022

Category: Internet of Things

Compliance: IAM-enabled

Location: Frankfurt, London, Dallas, Washington DC

Related links: Docs, Terms

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 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.

Summary

Internet of Things Platform Free

Location: Dallas

Plan: Lite

Service name: Internet of Things Platform-2w

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

7. click create

Internet of Things

Compliance: IAM-enabled

Location: Frankfurt, London, Dallas, Washington DC

Related links: Docs, Terms

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 data exchanged, data analyzed, and edge data analyzed per month.

Lite plan services are deleted after 30 days of inactivity.

Configure your resource

Service name: Internet of Things Platform-child_safety

Select a resource group: Default

Tags: Examples: env:dev, version-1

Access management tags: Examples: access:dev, proj:version-1

Summary

Internet of Things Platform Free

Location: London

Plan: Lite

Service name: Internet of Things Platform-child_safety

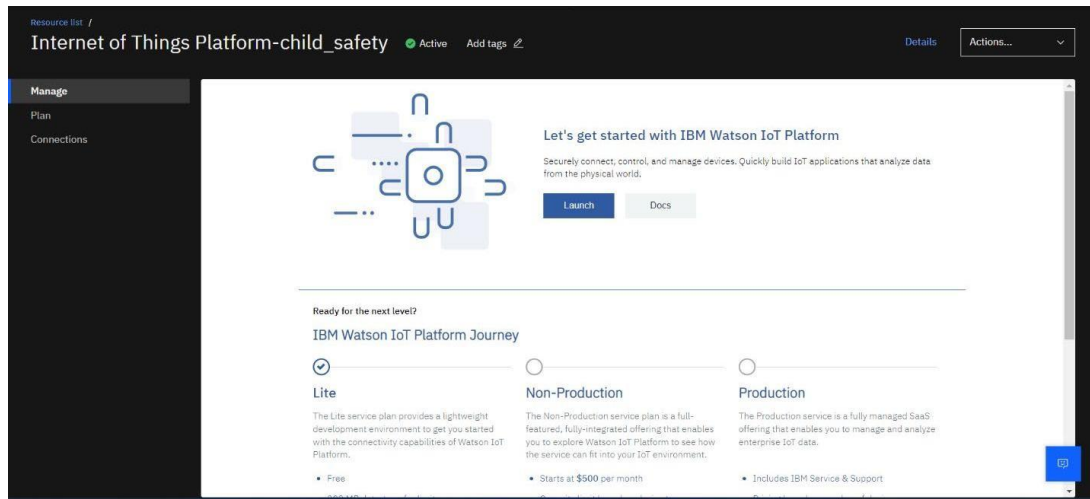
Resource group: Default

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

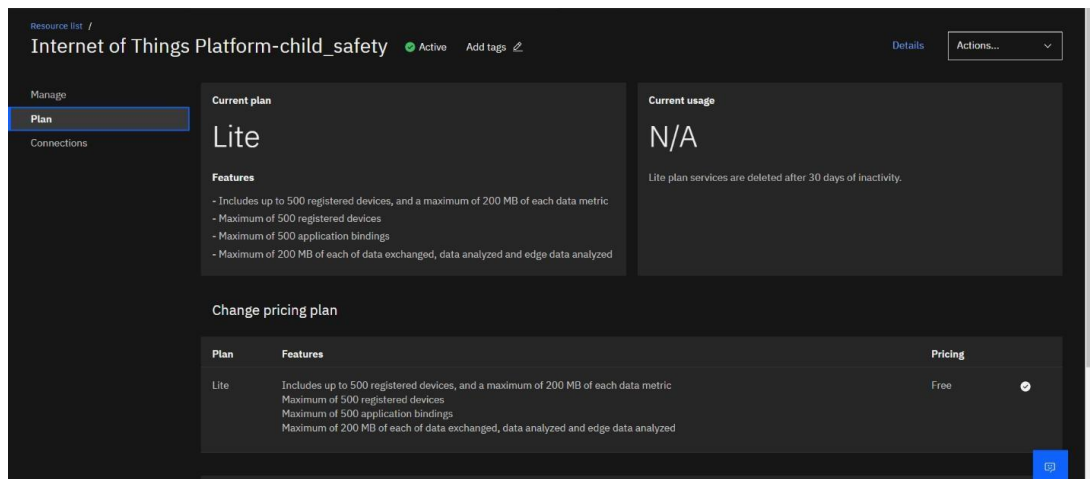
Create

Add to estimate

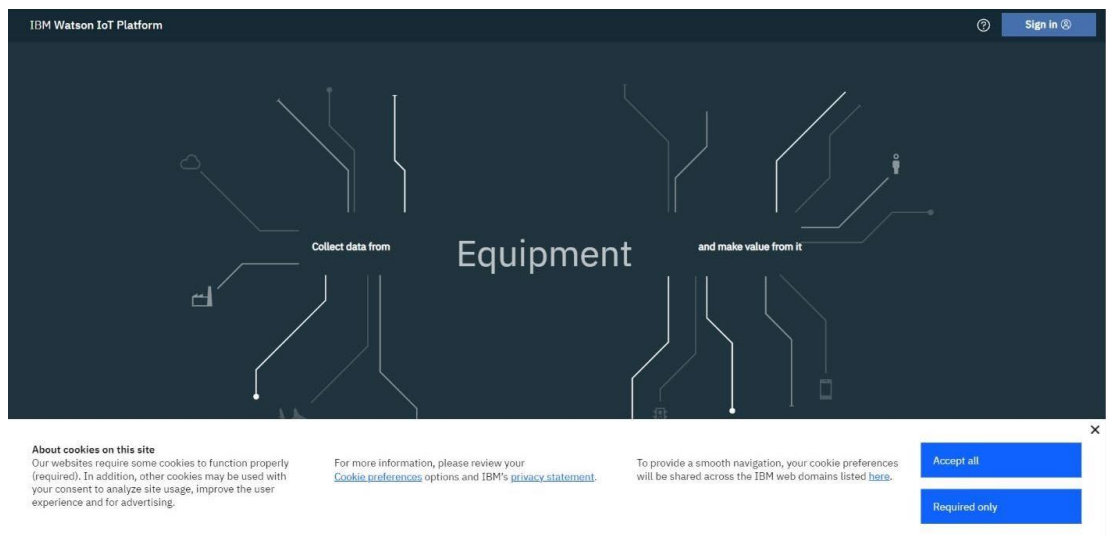
8. Internet of Things Platform Child_safety will be created, where there are different options like manage, plan, and connection



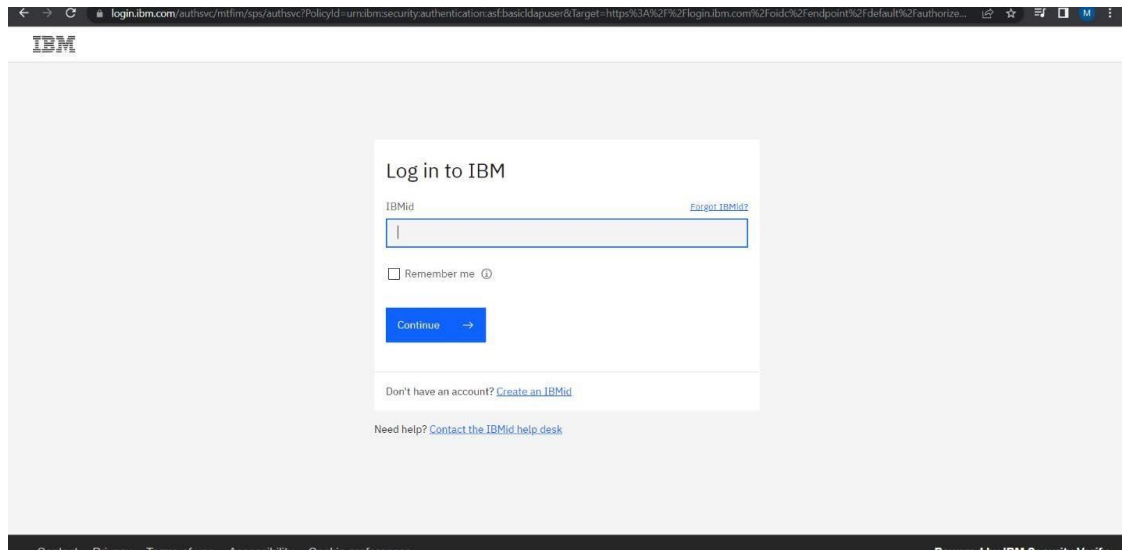
9. manage is for launch, plan gives us the idea about the payment package and its upgrades, and lastly the connection is for to connect IOT with other services



10. Click on the launch button in the manage tab, it will open to this

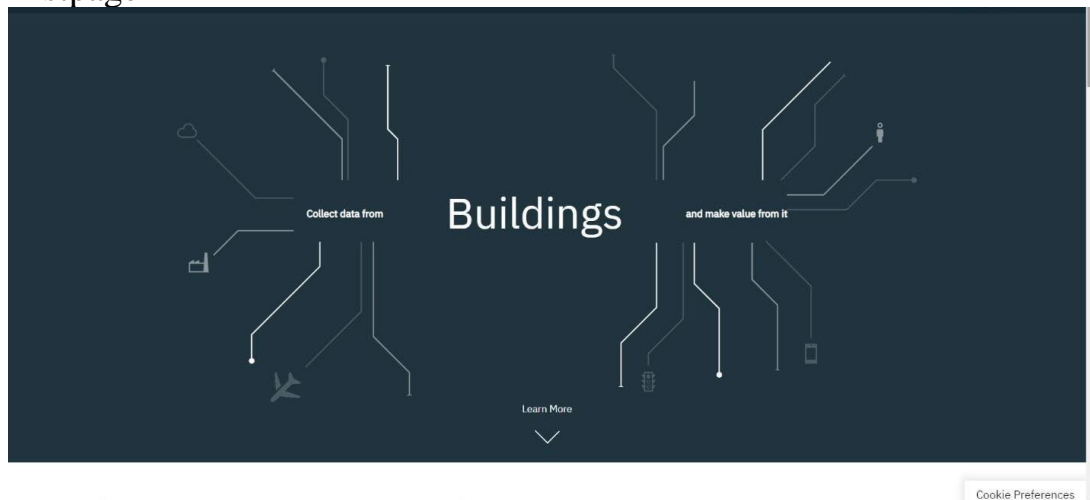


11. Enter the details to sign in to the Watson Cloud to create a device

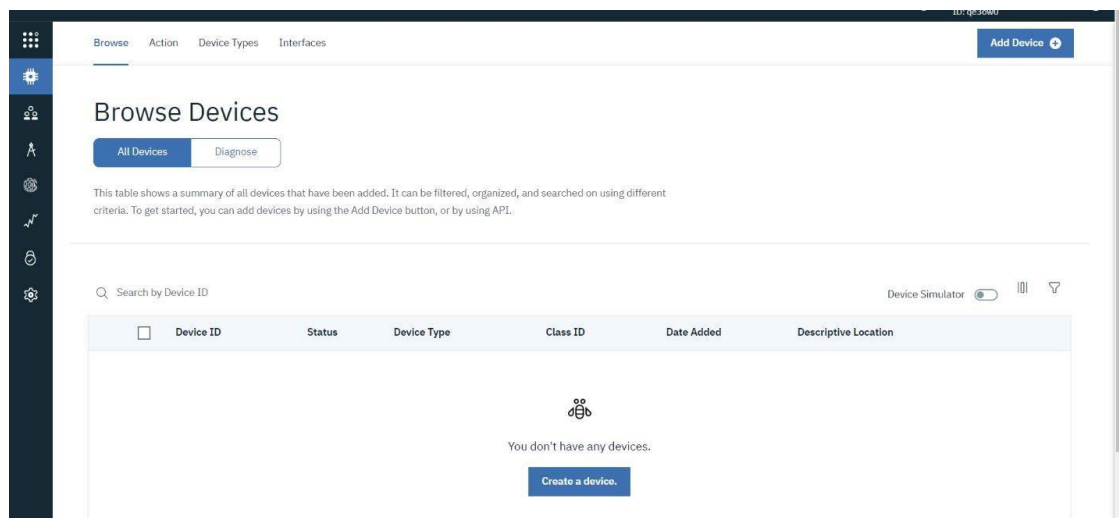


The screenshot shows the IBM login page in a web browser. The browser's address bar displays a URL starting with 'login.ibm.com'. The page features the IBM logo at the top left. The main content area is a light gray rectangle containing a white login box. Inside the box, the heading 'Log in to IBM' is at the top. Below it is a text input field labeled 'IBMId' with a 'Forgot IBMId?' link to its right. Underneath the input field is a checkbox labeled 'Remember me' with a help icon. A blue 'Continue' button with a right-pointing arrow is positioned below the checkbox. At the bottom of the login box, there is a link for users who don't have an account: 'Don't have an account? Create an IBMId'. Below the login box, a link for help is provided: 'Need help? Contact the IBMId help desk'.

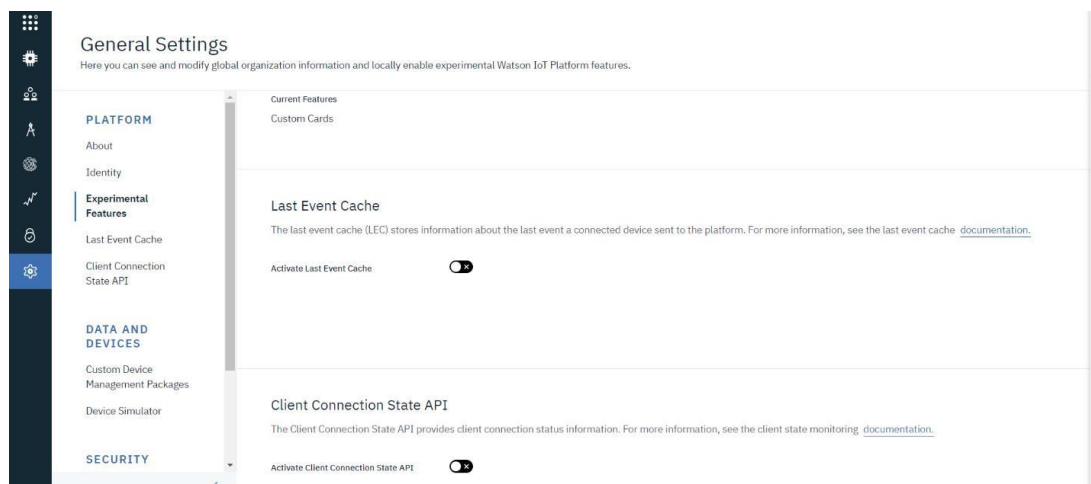
12. Once logged in the name will be displayed and it goes back to the firstpage



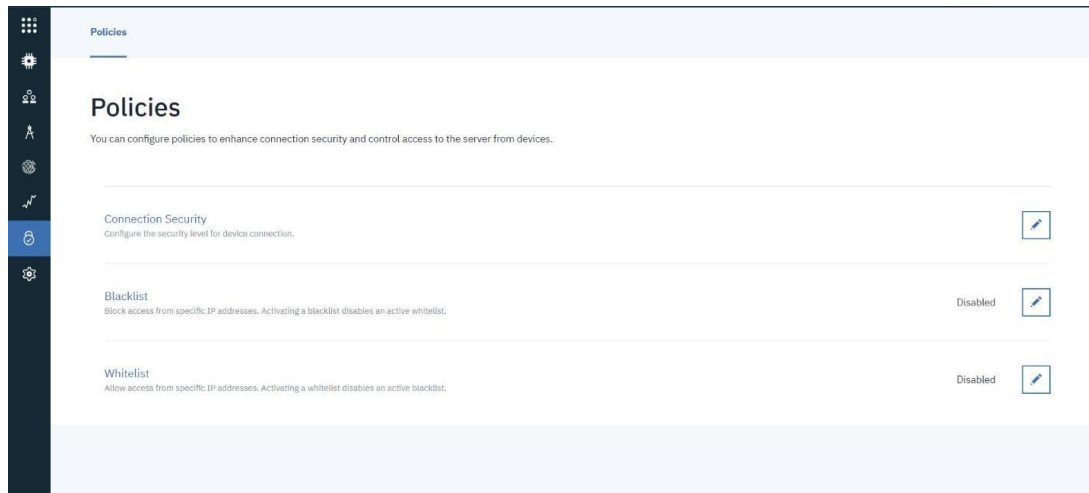
13. And again clicking on the launch button will open this tab, the device will help in the creation of the devices, the addition of devices, and the display of details of the devices.



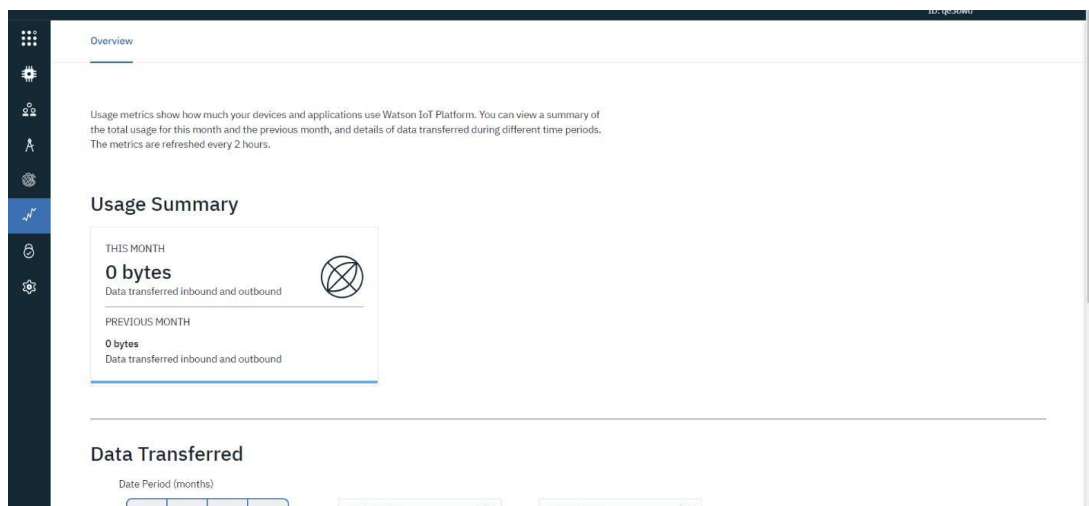
14. The setting tab is used to change the general setting if needed for the project.



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



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



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

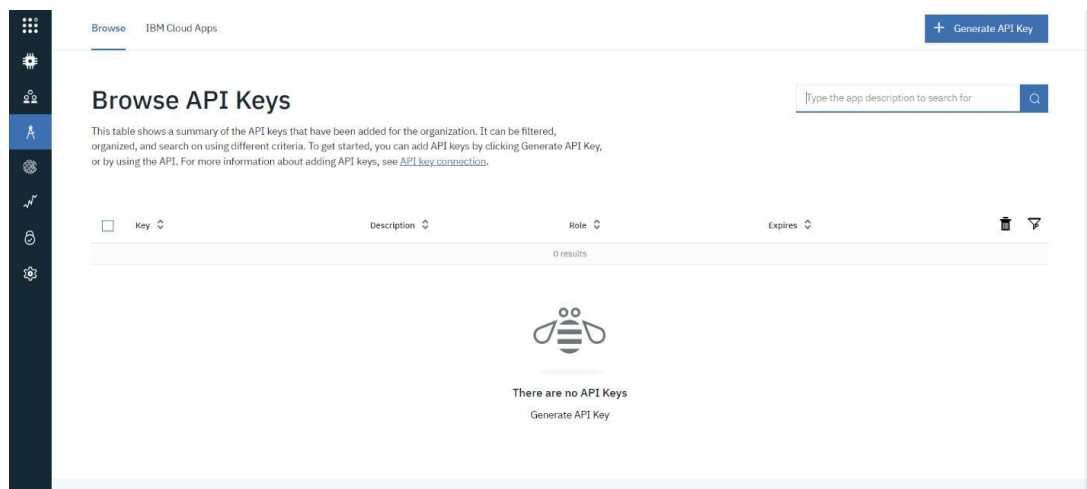
Browse Members

Type the member email to search for

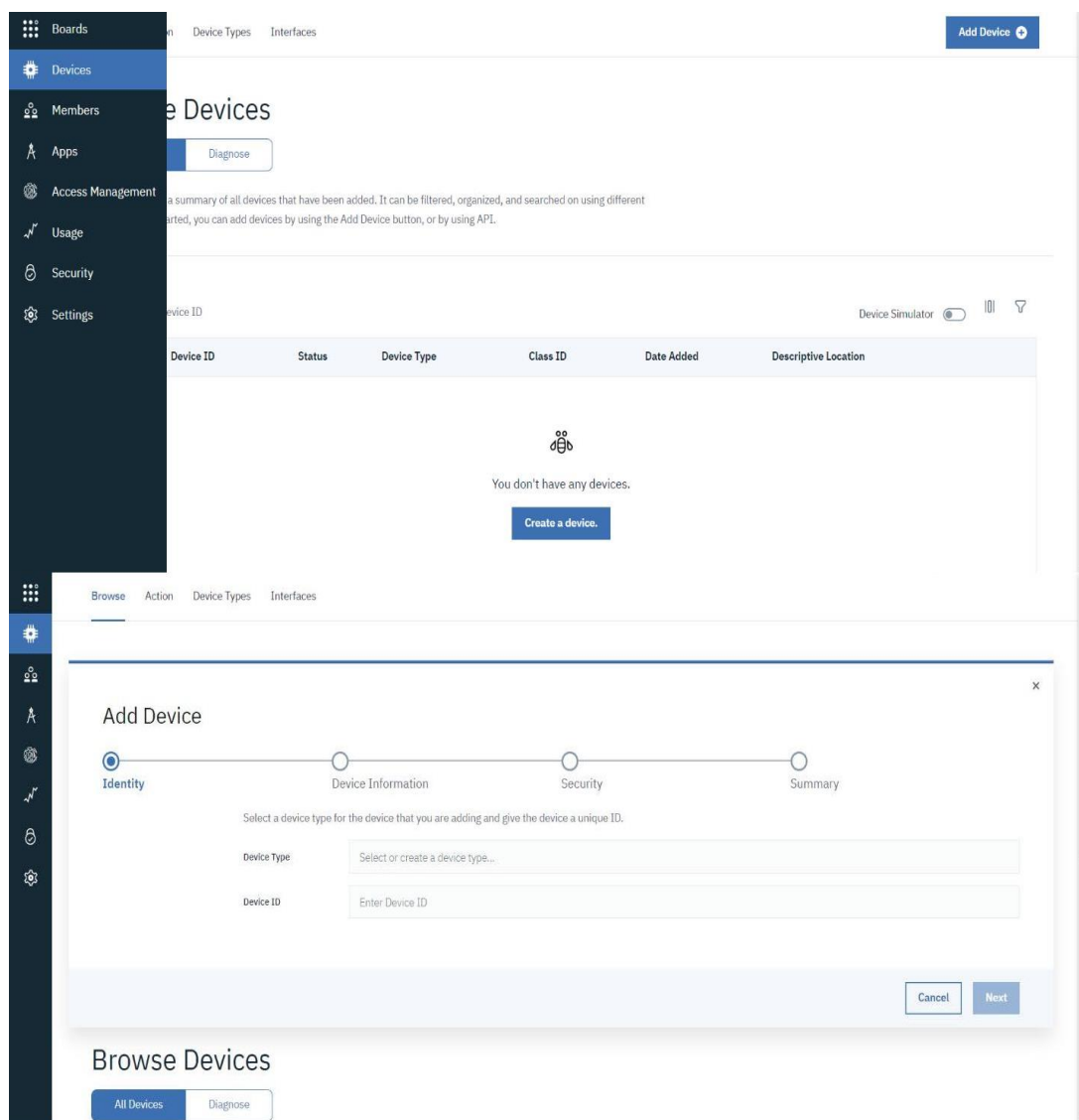
This table shows a summary of the members of the organization. It can be filtered, organized, and search on using different criteria. To get started, you can add members by clicking Add Members, or by using the API. For more information about members, see [Managing user access](#).

<input type="checkbox"/>	Email Address	Name	Role	Added By	Expires	
1 result						
<input type="checkbox"/>	worldisfullofmeow@gmail.com	worldisfullofmeow@gmail.com	Administrator	-	-	

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



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



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

The screenshot shows the 'Add Device' form with the 'Device Information' step selected. The form includes fields for Serial Number, Model, Description, Hardware Version, Manufacturer, Device Class, Firmware Version, and Descriptive Location. A 'Back' button is visible at the bottom right.

Navigation: Identity (checked), **Device Information** (selected), Security, Summary

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

Fields:

- 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

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

The screenshot shows the 'Add Device' form with the 'Security' step selected. It presents two options for selecting a device authentication token: Auto-generated authentication token (default) and Self-provided authentication token. A generated token is displayed in a field.

Navigation: Identity (checked), Device Information (checked), **Security** (selected), Summary

Instructions: There are two options for selecting a device authentication token.

Options:

- Auto-generated authentication token (default)**: Allow the service to generate an authentication token for you. Tokens are 18 characters and contain a mix of alphanumeric characters and symbols. The token is returned to you at the end of the device registration process.
- Self-provided authentication token**: Provide your own authentication token for this device. The token must be between 8 and 36 characters and contain a mix of lowercase and uppercase letters, numbers, and symbols, which can include hyphens, underscores, and periods. Do not use repeated characters, dictionary words, user names, or other predefined sequences.

Authentication Token: 1997199520012005

Notes: Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored. Authentication token are encrypted before we store them.

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

The screenshot shows the 'Add Device' form with the 'Summary' step selected. It displays a summary of the device information entered in the previous steps, including Device Type, Device ID, and Security Token. A 'Finish' button is visible at the bottom right.

Navigation: Identity (checked), Device Information (checked), Security (checked), **Summary** (selected)

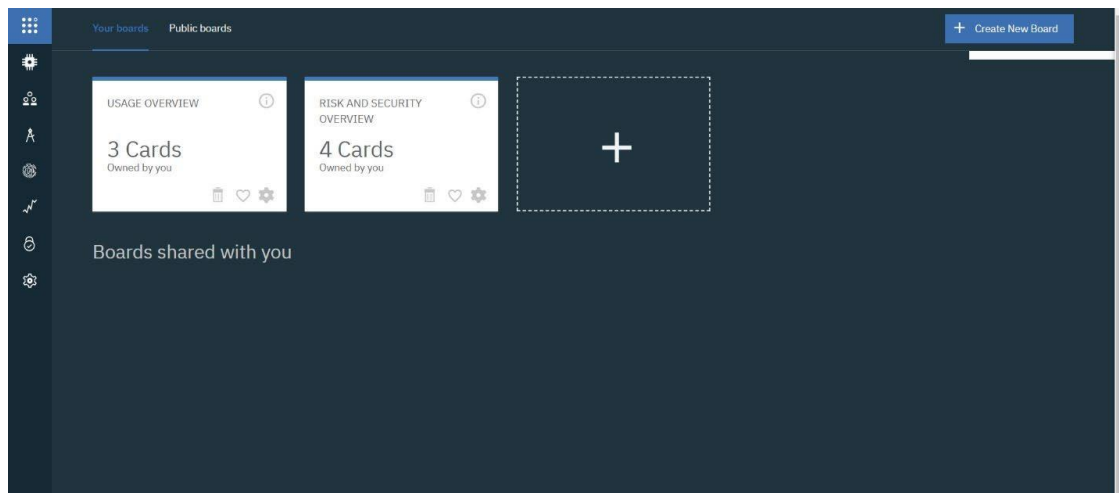
Instructions: Verify that the following information is correct then select Finish

Summary:

- Device Type: Modem
- Device ID: 199795
- Security Token: 1997199520012005

Buttons: Back, Finish

23. The device credentials will be displayed with all the details
24. Safe the details of the device as the authentication tokens are nonrecoverable and if misplaced then we have to create a new one.
- 25..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.
In a similar way, we can create n number of devices with a 50 per page limit as per the requirement of our project
26. The Boards will display card for the project.



CONCLUSION:

An IBM Watson cloud for IoT and a device is created