

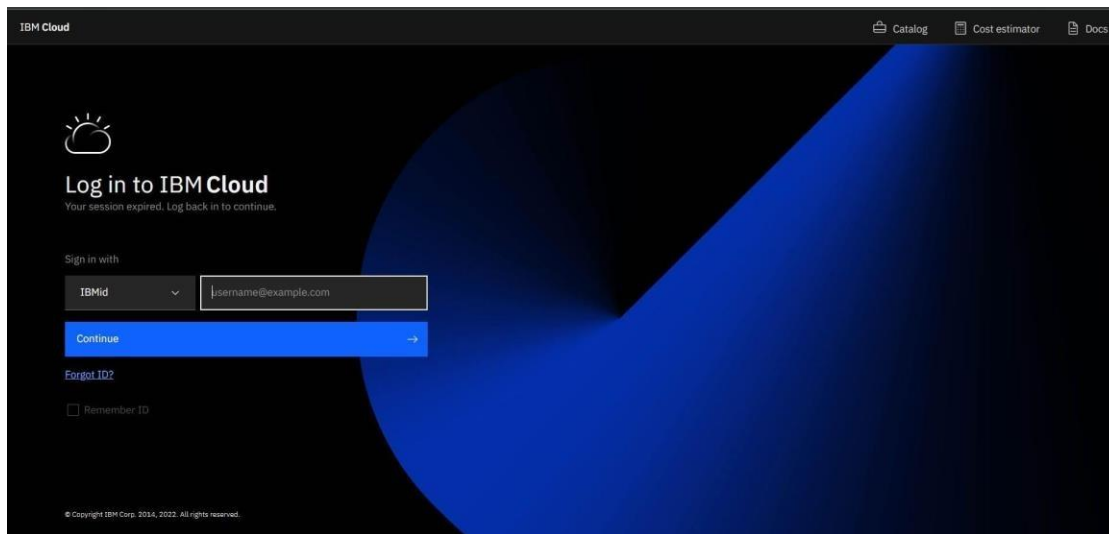
Create And Configure IBM Cloud Services

Create IBM Watson IoT Platform And Device

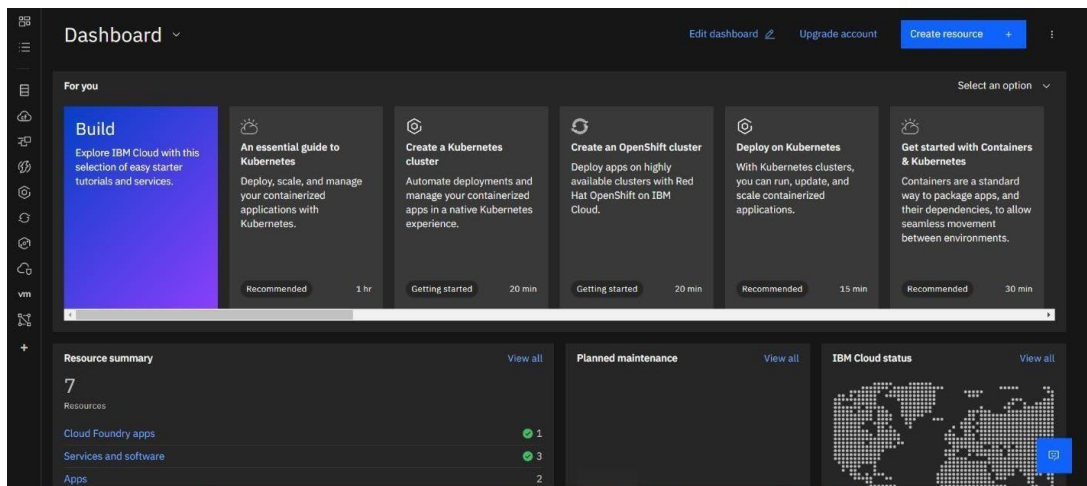
Date	27 August 2022
Team ID	PNT2022TMID18337
Project Name	Project - IoT Based Safety Gadget for Child Safety Monitoring and Notification

STEPS:

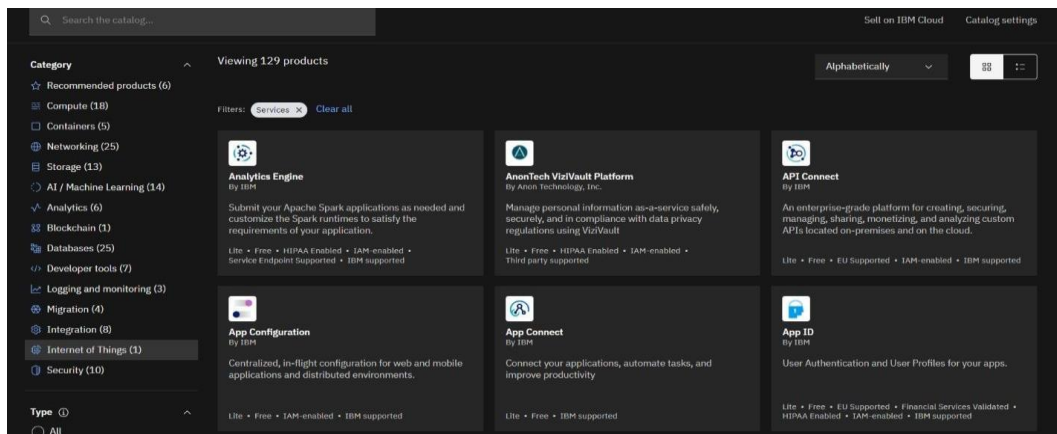
1.create an IBM cloud account with the individual IBM id and password



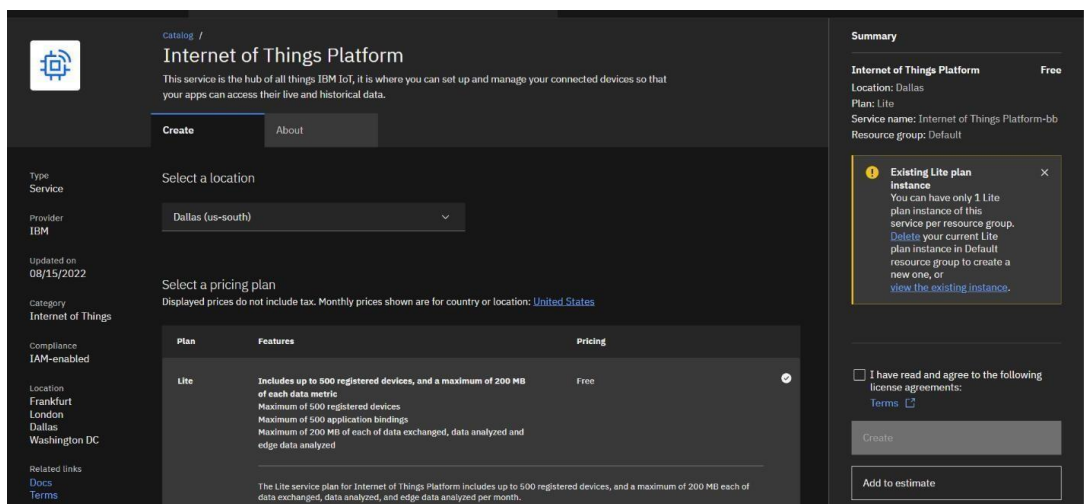
2.Home page of IBM cloud



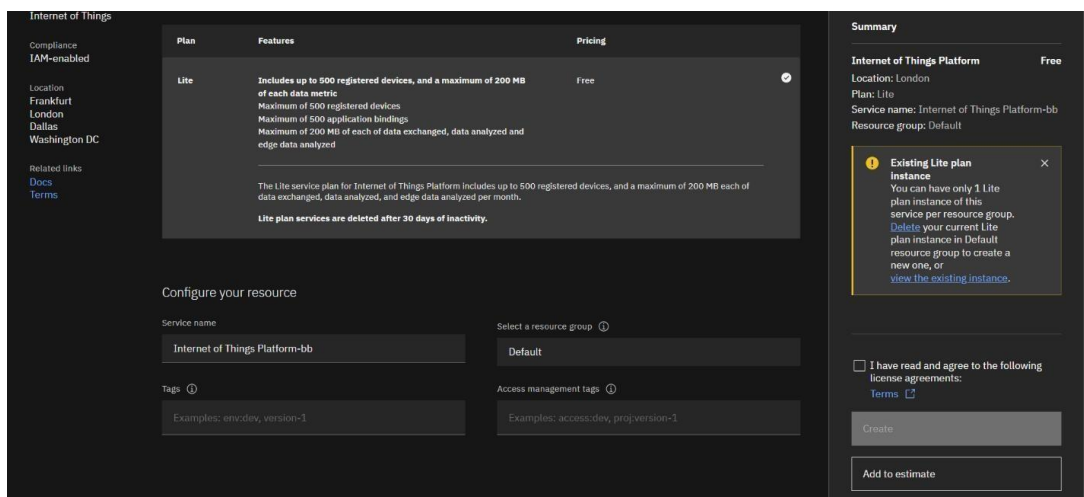
3. Click on the catalog on the top



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: Lite

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 Platform

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

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: env:dev, version=1

Access management tags: 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

Internet of Things Platform-child_safety 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

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

Resource list / Internet of Things Platform-child_safety Active Add tags Details Actions...

Manage **Plan** Connections

Current plan
Lite

Features

- 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

Current usage
N/A

Lite plan services are deleted after 30 days of inactivity.

Change pricing plan

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

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

IBM Watson IoT Platform Sign in

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

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For more information, please review your [cookie preferences](#) options and IBM's [privacy statement](#).

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

Accept all
Required only

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

Log in to IBM

IBMId Forgot IBMId

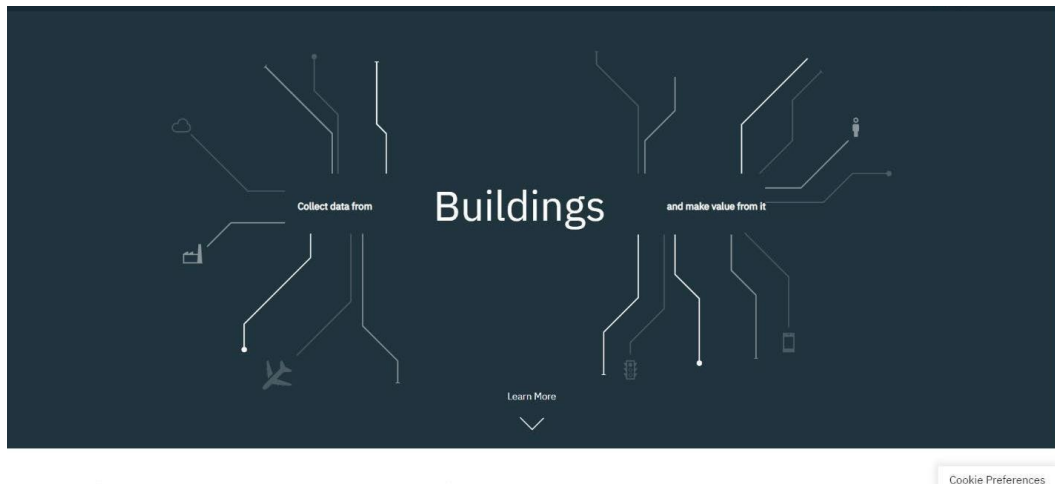
☐ Remember me

Continue

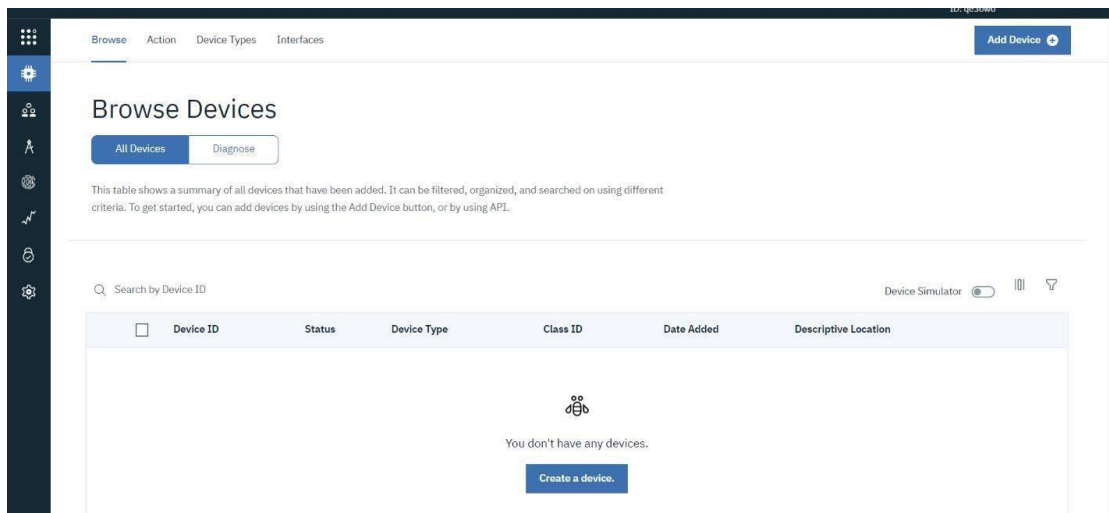
Don't have an account? [Create an IBMId](#)

Need help? [Contact the IBMId help desk](#)

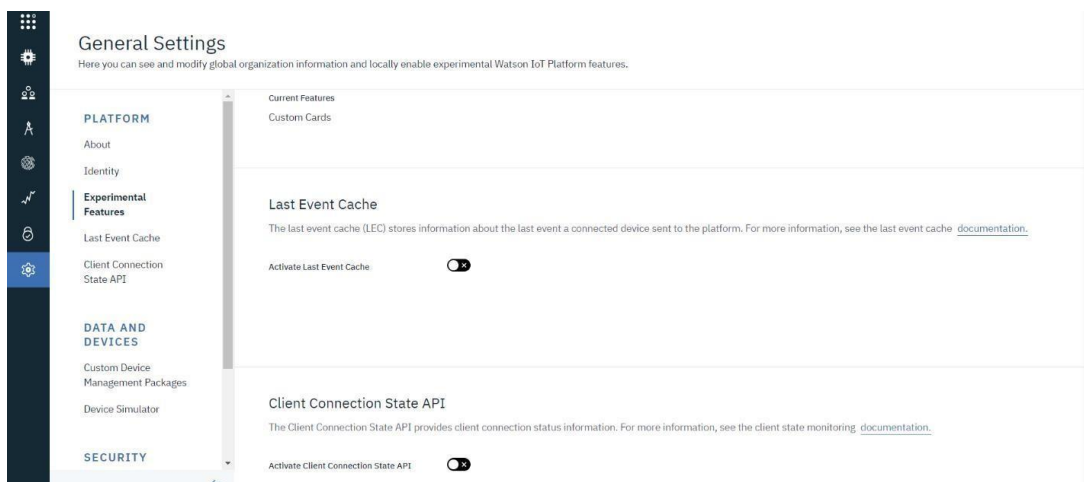
12. Once logged in the name will be displayed and it goes back to the first page



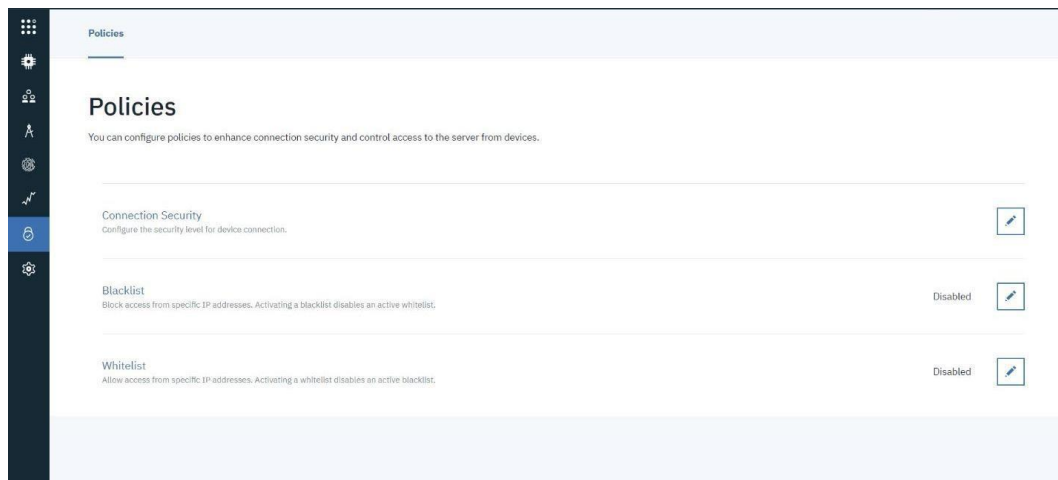
13. And again clicking on the launch button will open this tab, the device will help in the creation of the devices, the addition of devices, and the display of details of the devices.



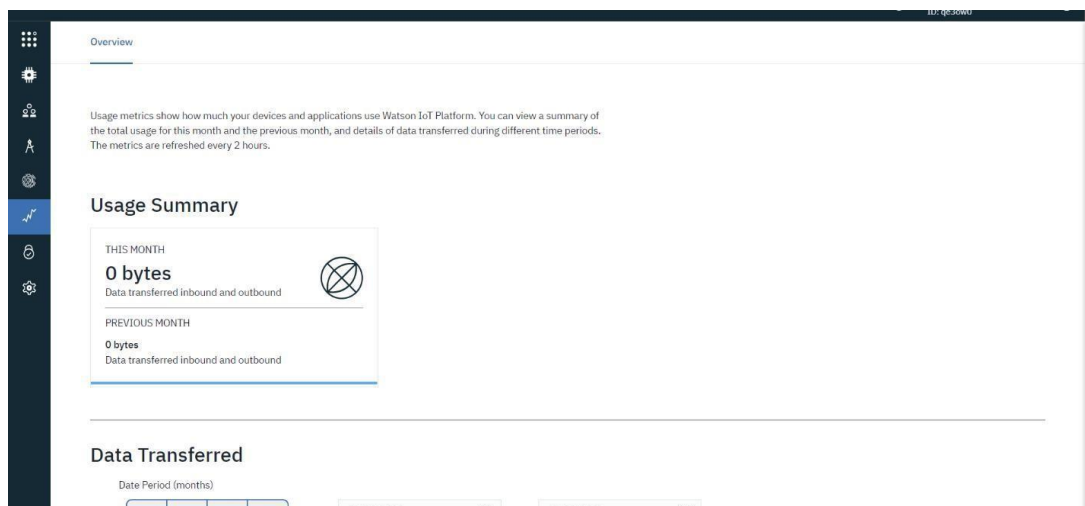
14. The setting tab is used to change the general setting if needed for the project.



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

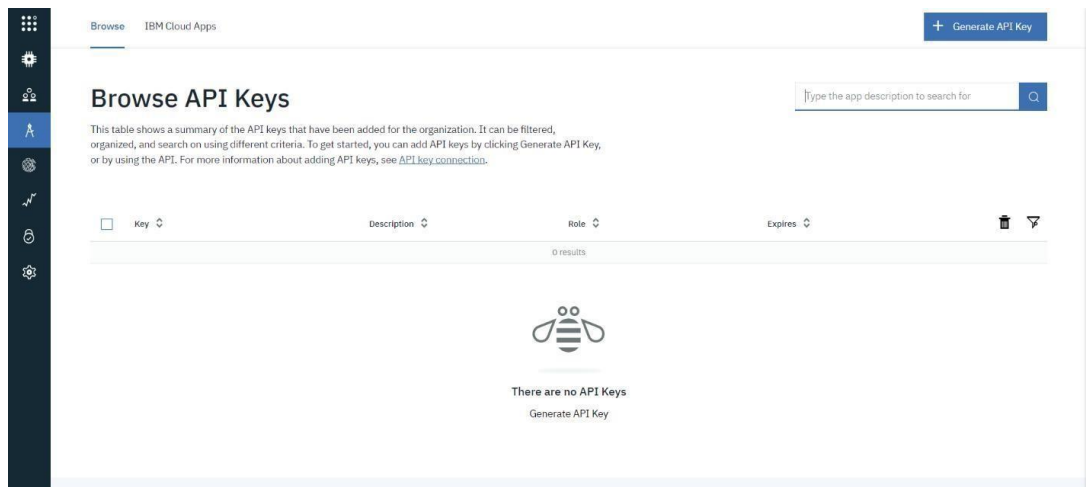


17. The member tab is add the teams members to work in the platform

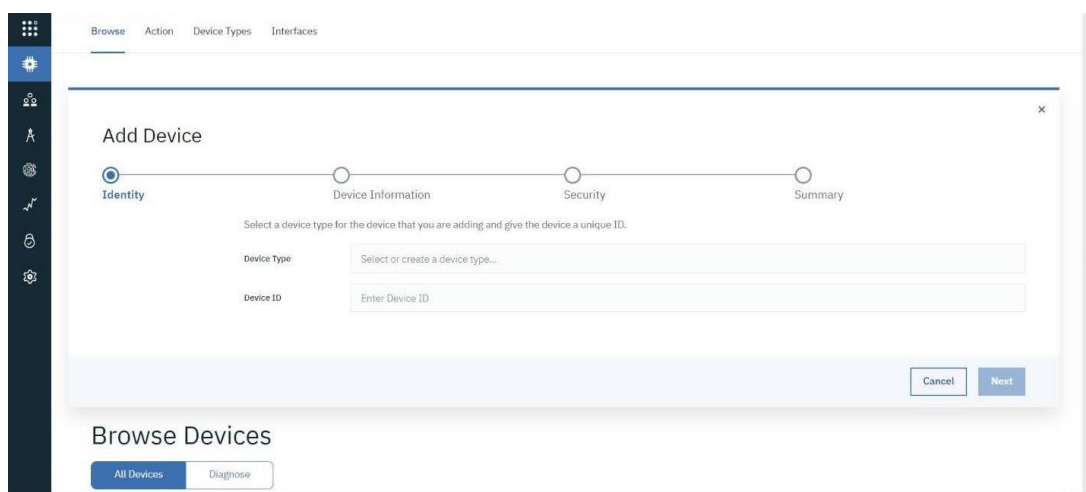
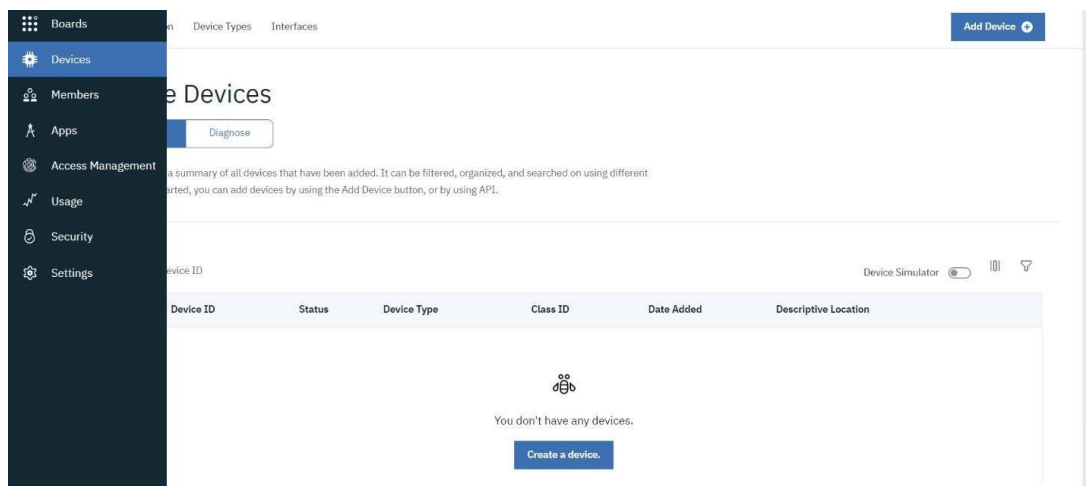
The screenshot shows the 'Browse Members' page in the Watson IoT Platform. The page has a sidebar with various icons, and the main content area is titled 'Browse Members'. There is a search bar with the placeholder text 'Type the member email to search for'. Below the search bar, there is a table of members. The table has columns: Email Address, Name, Role, Added By, Expires, and a delete icon. There is one member listed: worldisfullofmeow@gmail.com, worldisfullofmeow@gmail.com, Administrator.

Email Address	Name	Role	Added By	Expires	
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 at the 'Device Information' step. The progress bar indicates that 'Identity' is complete, 'Device Information' is the current step, and 'Security' and 'Summary' are yet to be completed. The form contains two columns of input fields: 'Serial Number', 'Model', 'Description', and 'Hardware Version' on the left; 'Manufacturer', 'Device Class', 'Firmware Version', and 'Descriptive Location' on the right. Each field has a placeholder text 'Enter [field name]'. There is an 'Add Metadata' button with a plus icon. At the bottom right, there are 'Back' and 'Next' buttons.

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

The screenshot shows the 'Add Device' form at the 'Security' step. The progress bar shows 'Identity' and 'Device Information' as completed steps. The 'Security' step is active, showing two options for selecting a device authentication token: 'Auto-generated authentication token (default)' and 'Self-provided authentication token'. The 'Auto-generated' option is selected. Below the options, there is a text box for the 'Authentication Token' containing the value '1997199520012005'. A warning message states: 'Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored.' At the bottom right, there are 'Back' and 'Next' buttons.

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

The screenshot shows the 'Add Device' form at the 'Summary' step. The progress bar shows all four steps ('Identity', 'Device Information', 'Security', and 'Summary') as completed. The 'Summary' step is active, displaying a verification message: 'Verify that the following information is correct then select Finish'. Below this, the following information is listed: 'Device Type: NodeMCU', 'Device ID: 199795', and 'Security Token: 1997199520012005'. There is a 'View Metadata' button. At the bottom right, there are 'Back' and 'Finish' buttons.

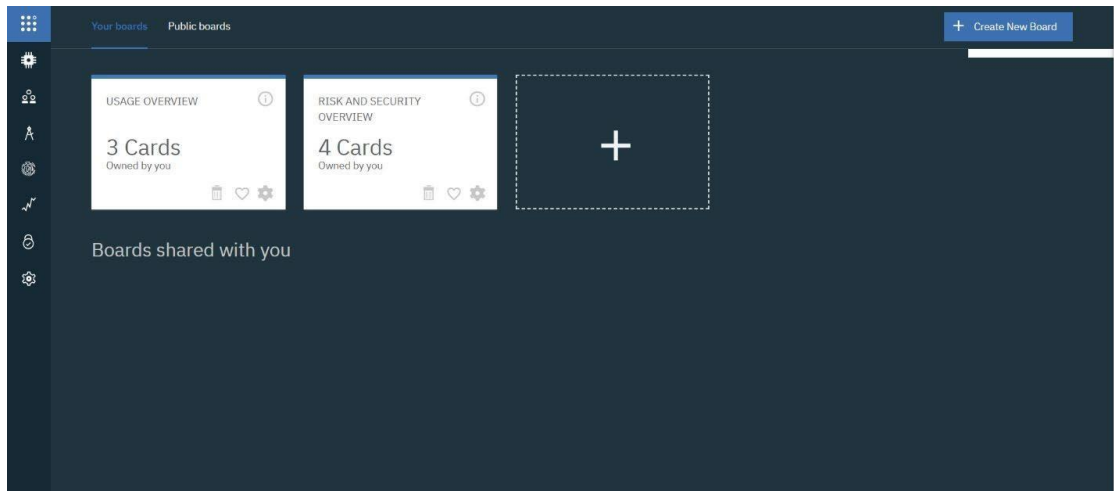
23. The device credentials will be displayed with all the details

24. Save the details of the device as the authentication tokens are non-recoverable 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.

27. In a similar way, we can create a 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