

**TEAM ID: PNT2022TMID17295**

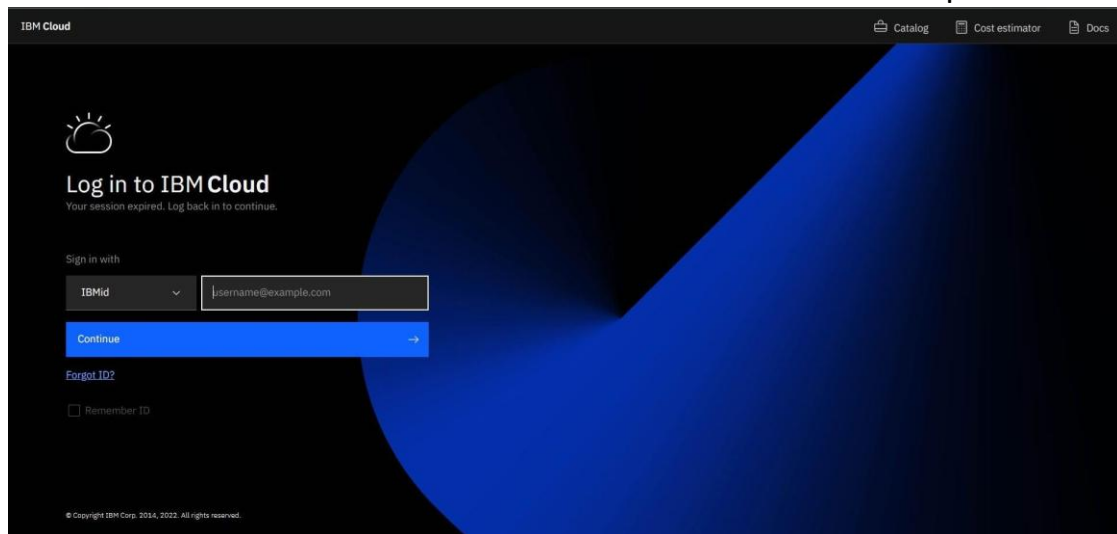
**PROJECT NAME: IoT BASED SMARTCROP PROTECTION SYSTEM FOR AGRICULTURE**

**CREATE IBM WATSON IOT PLATFORM AND DEVICE**

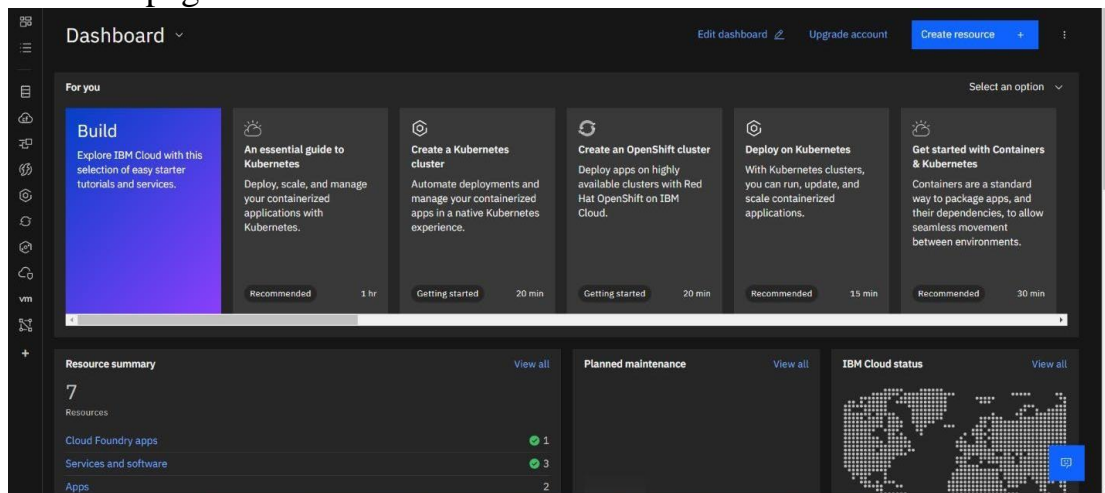
1. To create the IBM Watson IOT platform and device

## STEPS:

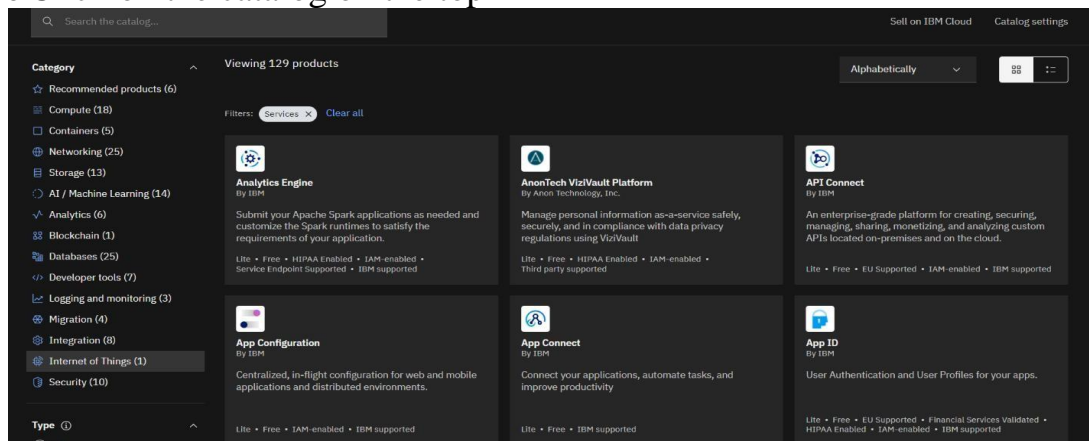
1. create an IBM cloud account with the individual IBM id and password



2. Home page of IBM cloud



3. Click on the catalog on the top



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

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.<br>Maximum of 500 registered devices<br>Maximum of 500 application bindings<br>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.

**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

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

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Create

Add to estimate

#### 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

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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 | <ul style="list-style-type: none"> <li>Includes up to 500 registered devices, and a maximum of 200 MB of each data metric</li> <li>Maximum of 500 registered devices</li> <li>Maximum of 500 application bindings</li> <li>Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed</li> </ul> <p>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.</p> <p>Lite plan services are deleted after 30 days of inactivity.</p> | Free    |

Configure your resource

Service name  
Internet of Things Platform-child\_safety

Tags  
Examples: env:dev, version-1

Select a resource group  
Default

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

Resource list / 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 \$900 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

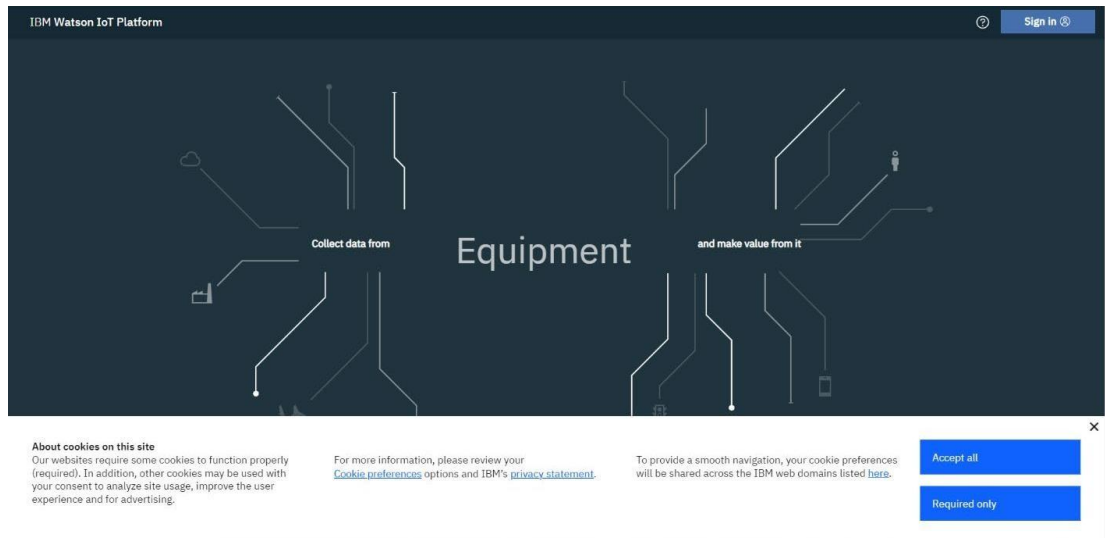
N/A

Lite plan services are deleted after 30 days of inactivity.

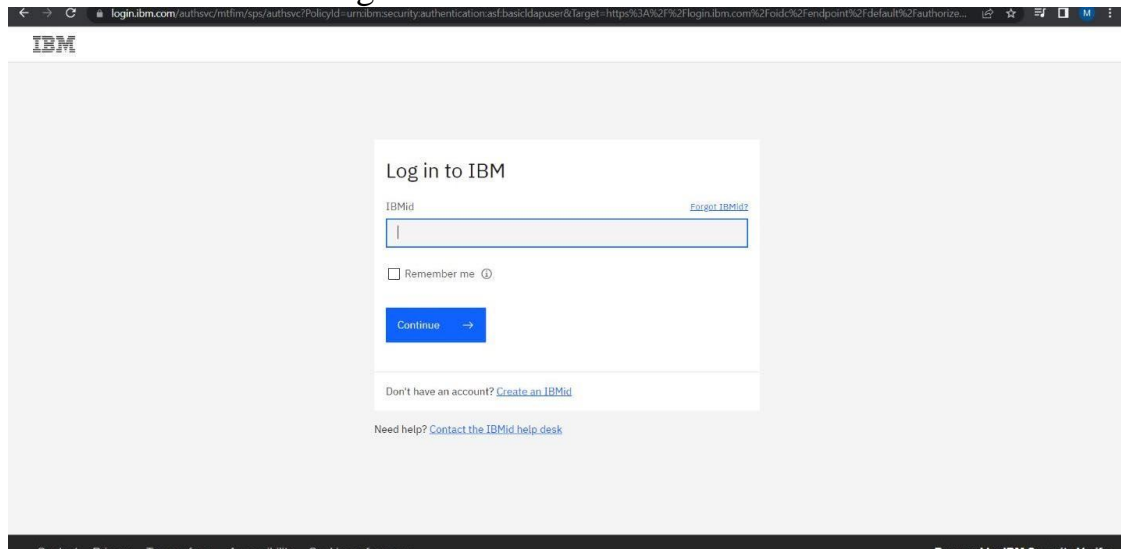
Change pricing plan

| Plan | Features  | Pricing |
|------|---|---------|
| Lite | <ul style="list-style-type: none"> <li>Includes up to 500 registered devices, and a maximum of 200 MB of each data metric</li> <li>Maximum of 500 registered devices</li> <li>Maximum of 500 application bindings</li> <li>Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed</li> </ul> | Free    |

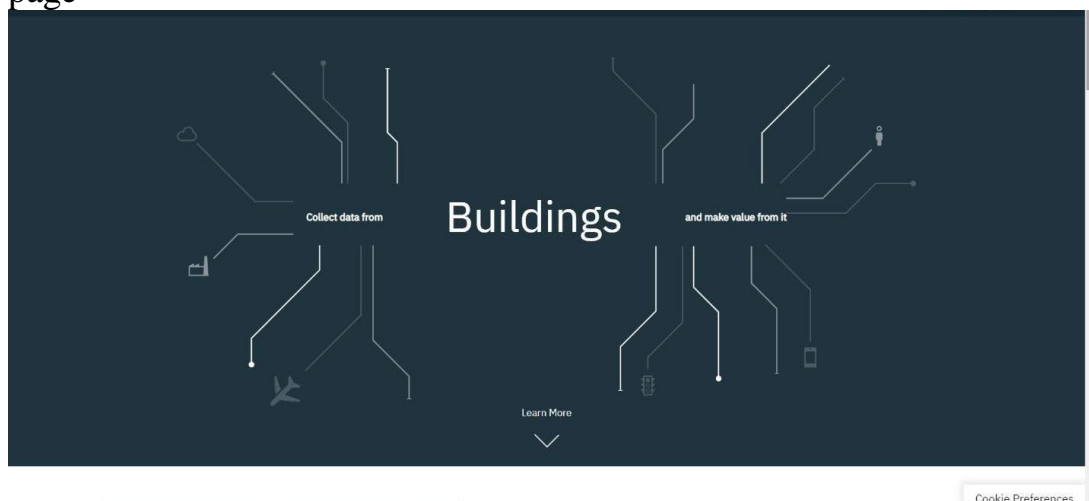
10. Click on the launch button in the manage tab, it will open to this



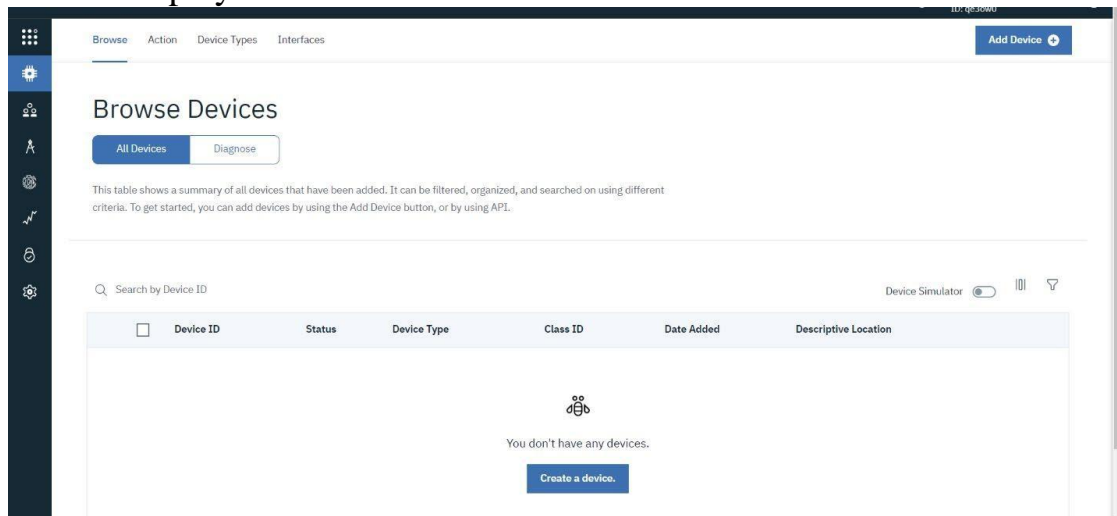
## 11. Enter the details to sign in to the Watson Cloud to create a device



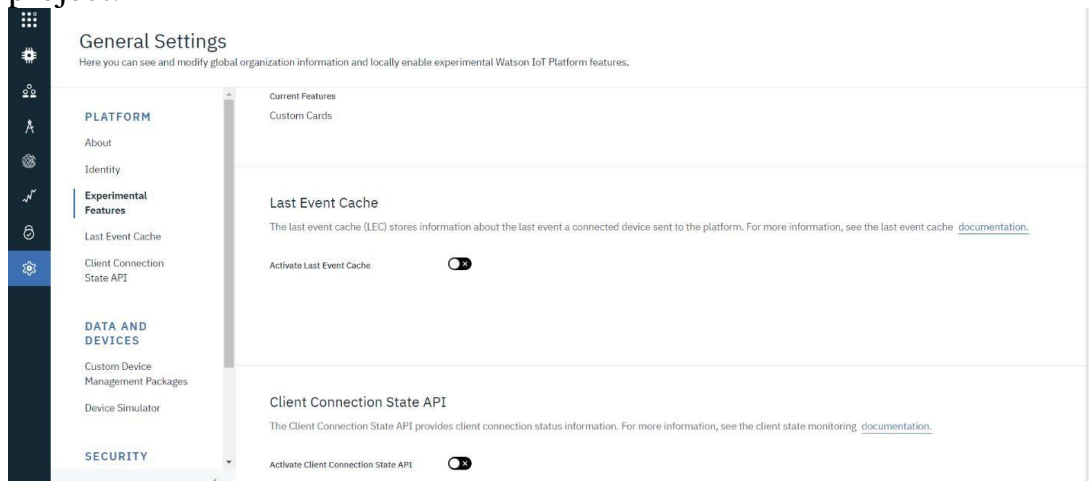
## 12. Once logged in the name will be displayed and it goes back to the first page



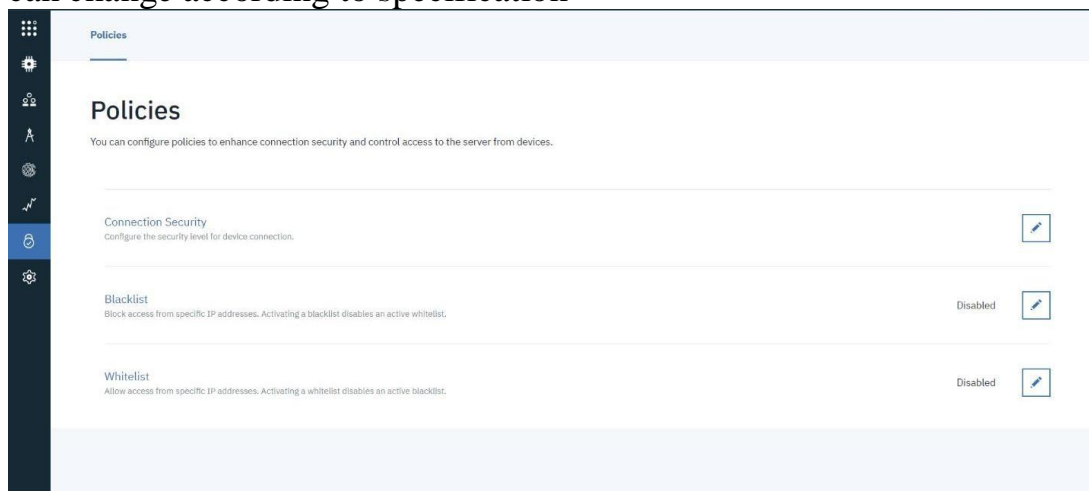
13. And again clicking on the launch button will open this tab, the device will help in the creation of the devices, the addition of devices, and the display of details of the devices.



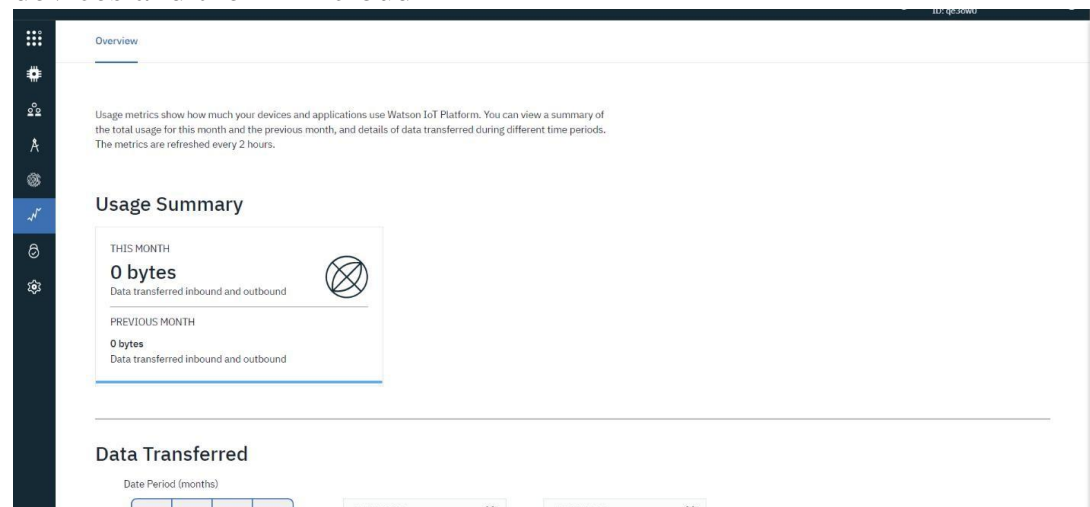
14. The setting tab is used to change the general setting if needed for the project.



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. It includes a search bar and a table with one member listed.

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

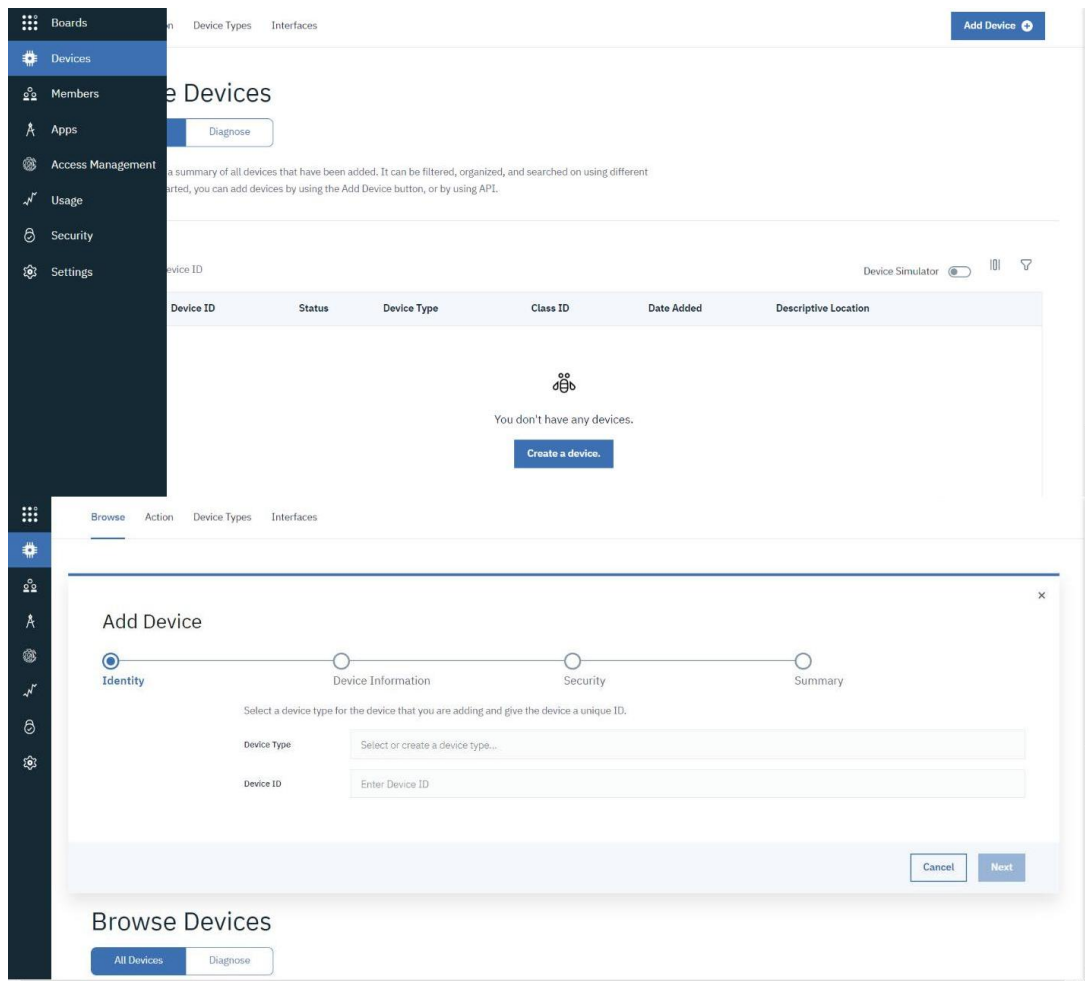
18. This tab is used when you want to connect to some other platform and to integrate with other services.

The screenshot shows the 'Browse API Keys' page. It includes a search bar and a table with 0 results. A message at the bottom states 'There are no API Keys' with a 'Generate API Key' button.

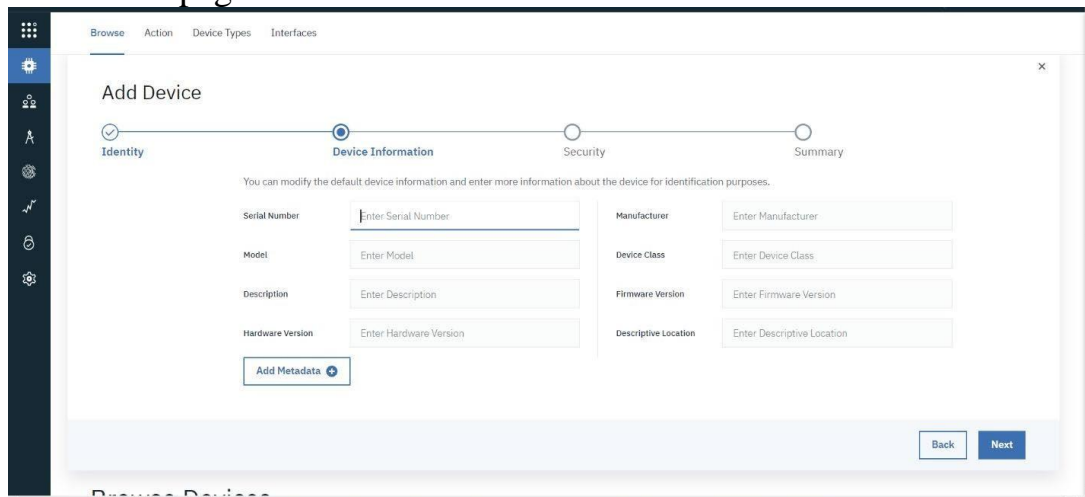
| <input type="checkbox"/> | Key | Description | Role | Expires |  |
|--------------------------|-----|-------------|------|---------|--|
| 0 results                |     |             |      |         |  |

There are no API Keys  
Generate API Key

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

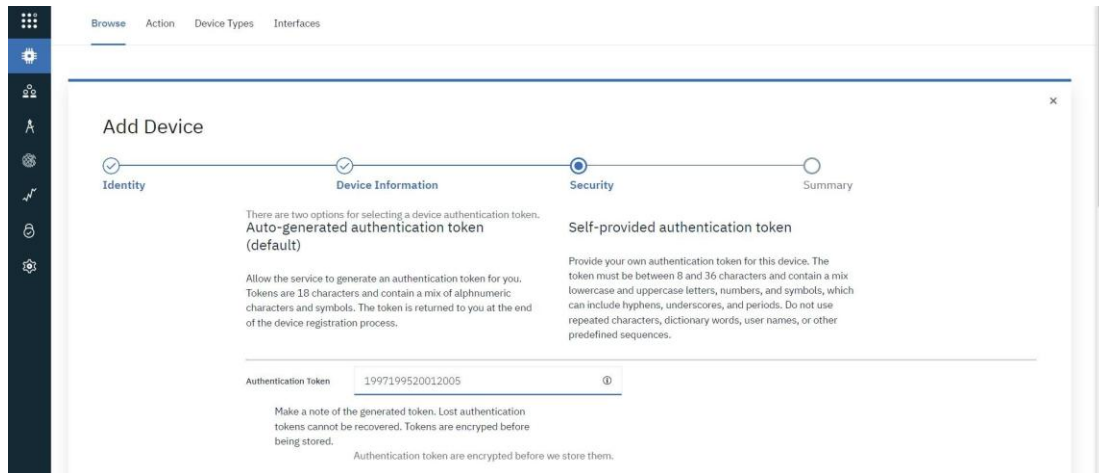


20. This page to enter extra details and of the hardware

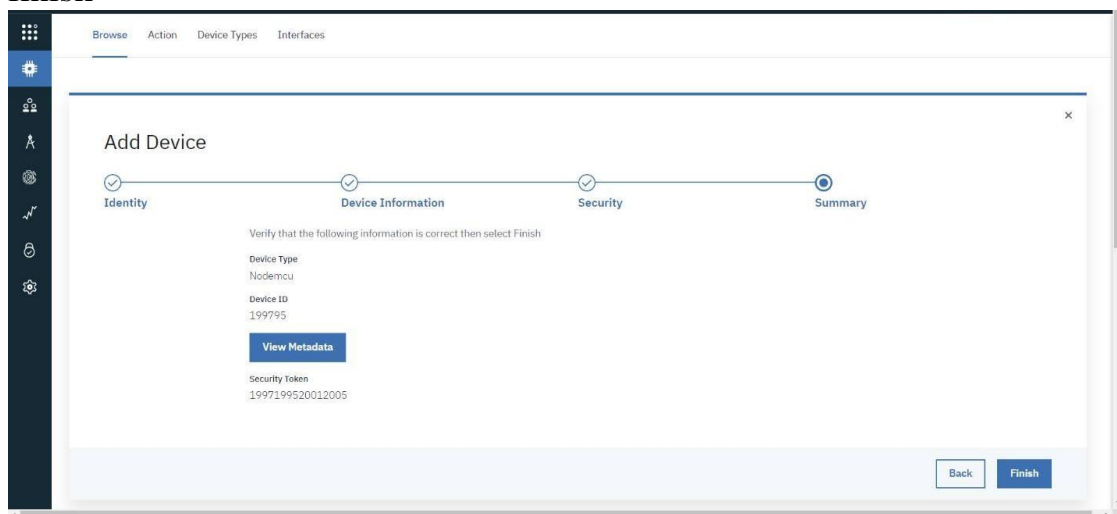


21. Clicking next it goes to the security where we do authentication token id.





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



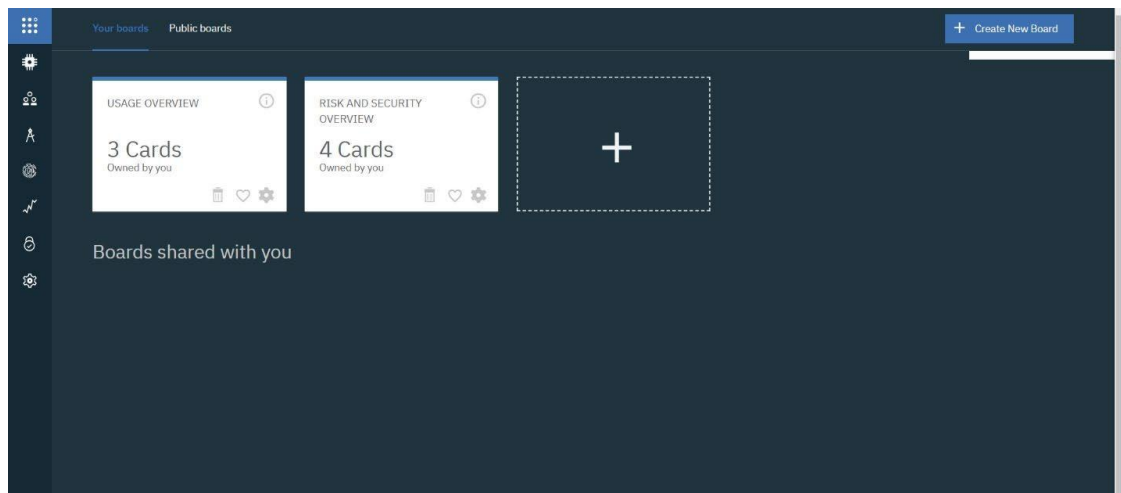
23. The device credentials will be displayed with all the details

24. Safe 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.  
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