

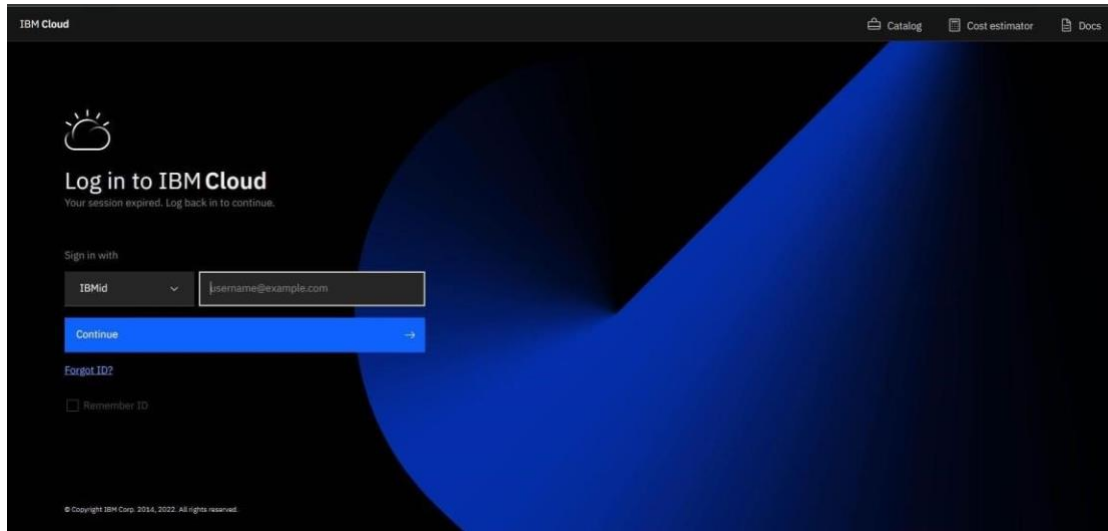
**PROJECT TITLE: IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE**

**CREATE IBM WATSON IOT PLATFORM AND DEVICE**

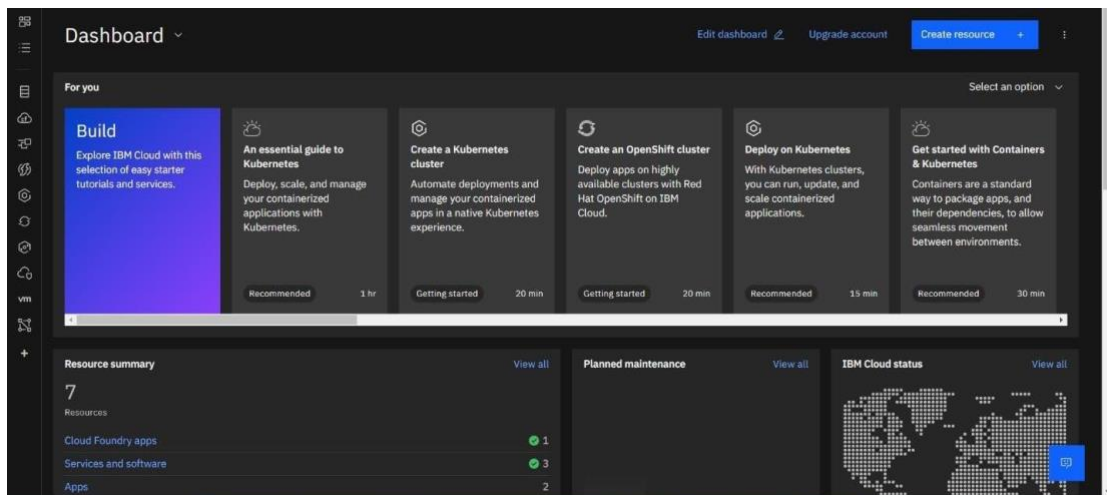
1. To create the IBM Watson IOT platform and device

**STEPS:**

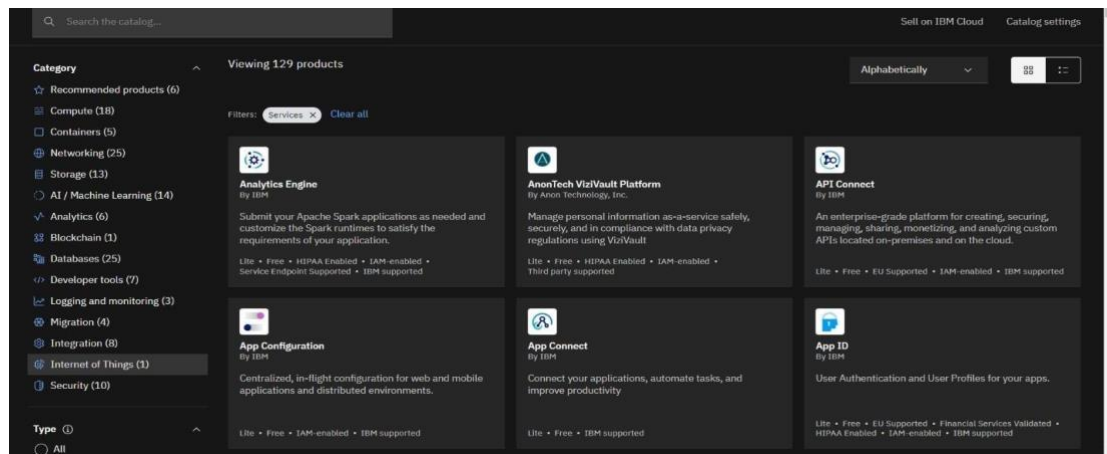
1. create an IBM cloud account with the individual IBM id and password



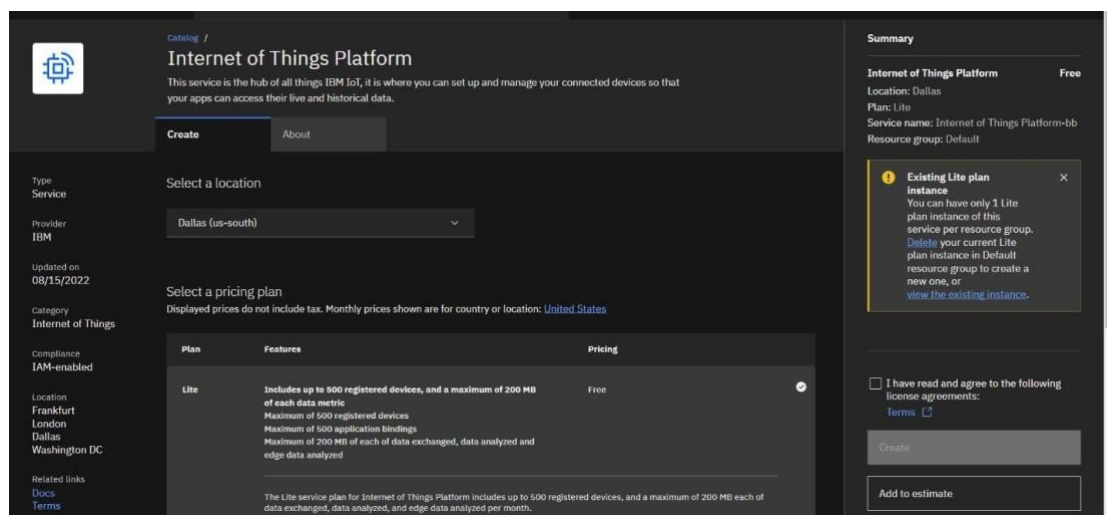
2. Home page of IBM cloud



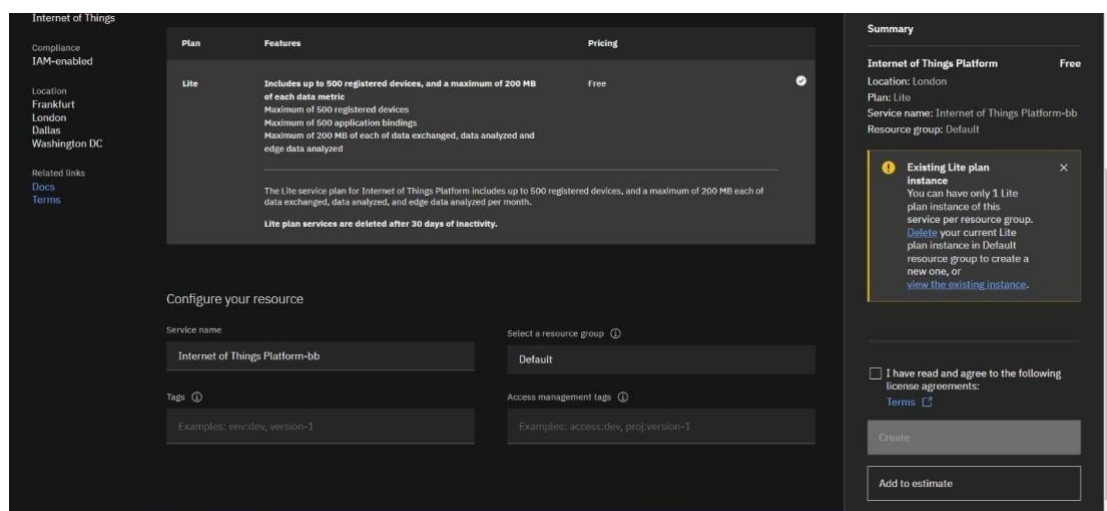
### 3. Click on the catalog on the top



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



### 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
<b>Lite</b>	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

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**

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**

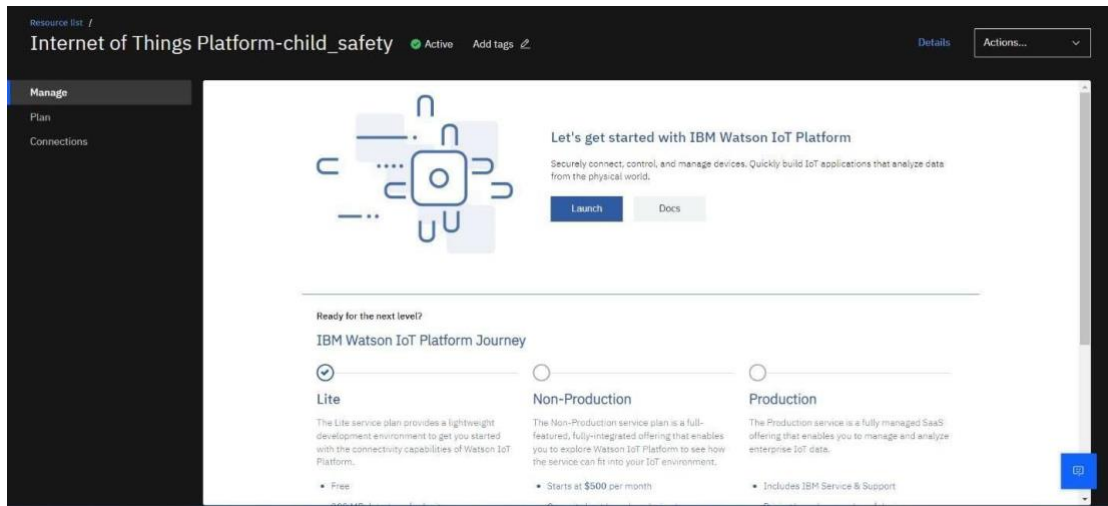
Location: London  
Plan: Lite  
Service name: Internet of Things Platform-child\_safety  
Resource group: Default

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

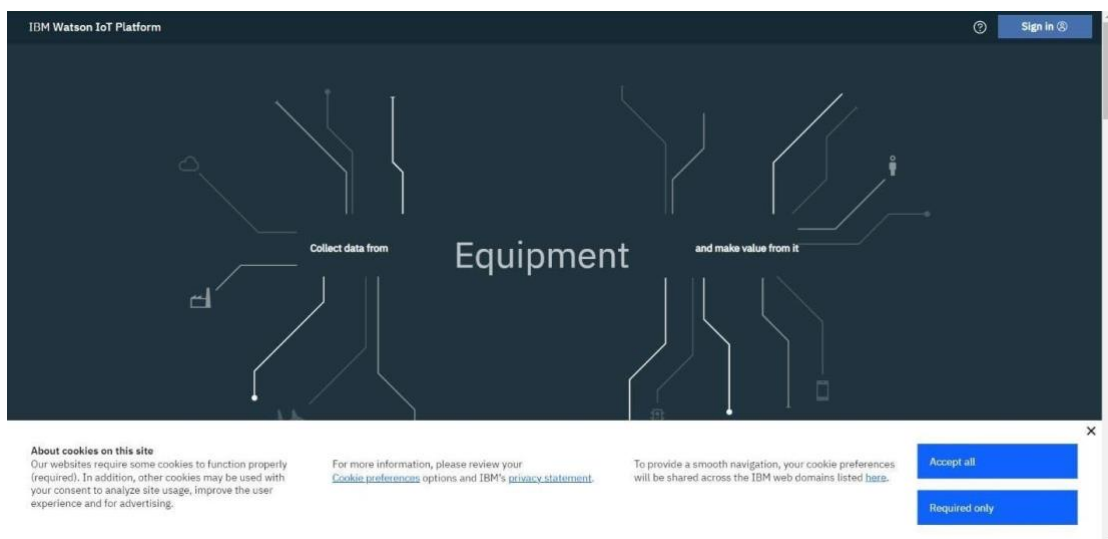
**Create**

Add to estimate

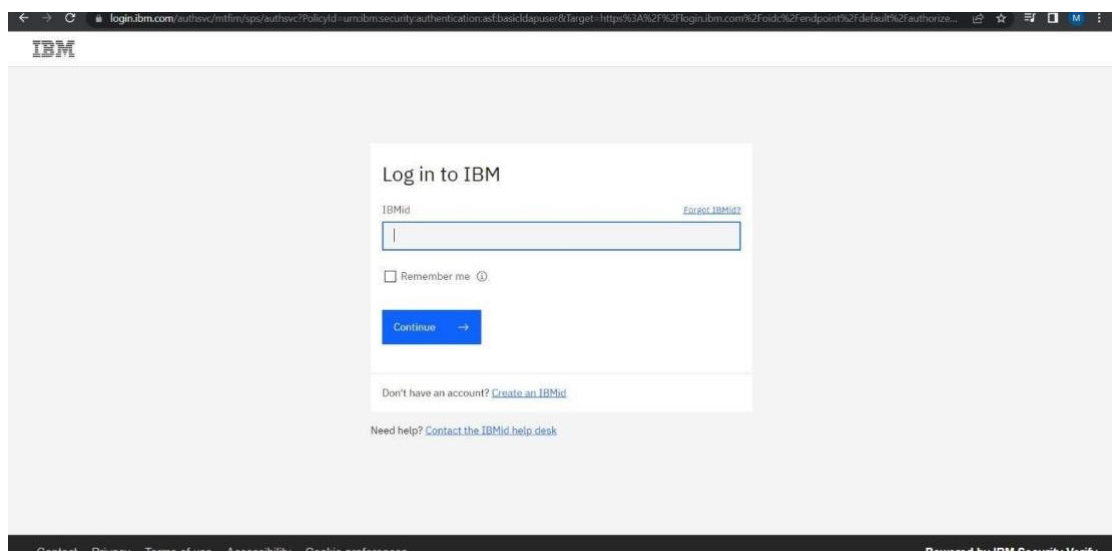
8. Internet of Things Platform Child\_safety will be created, where there are different options like manage, plan, and connection



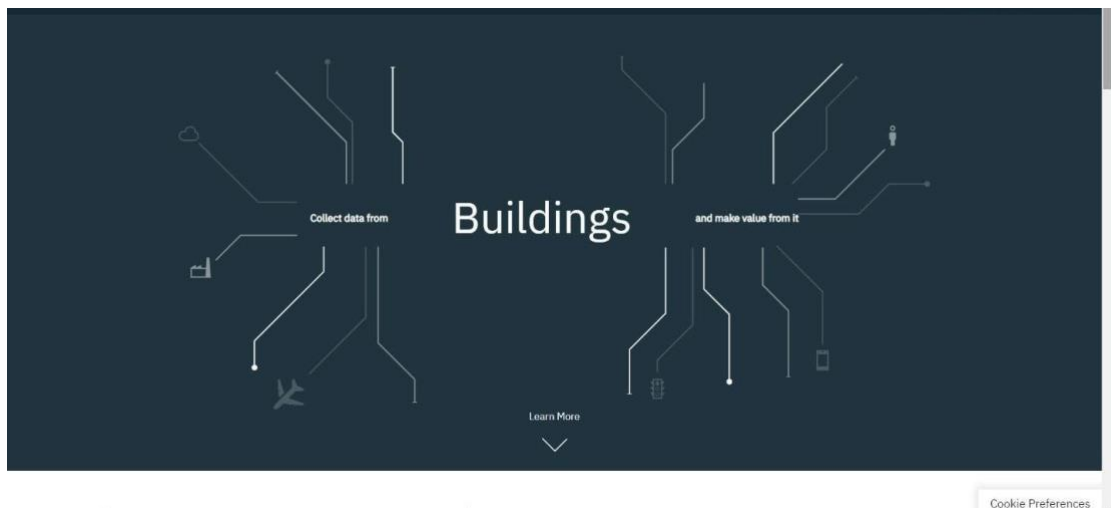
9. Click on the launch button in the manage tab, it will open to this



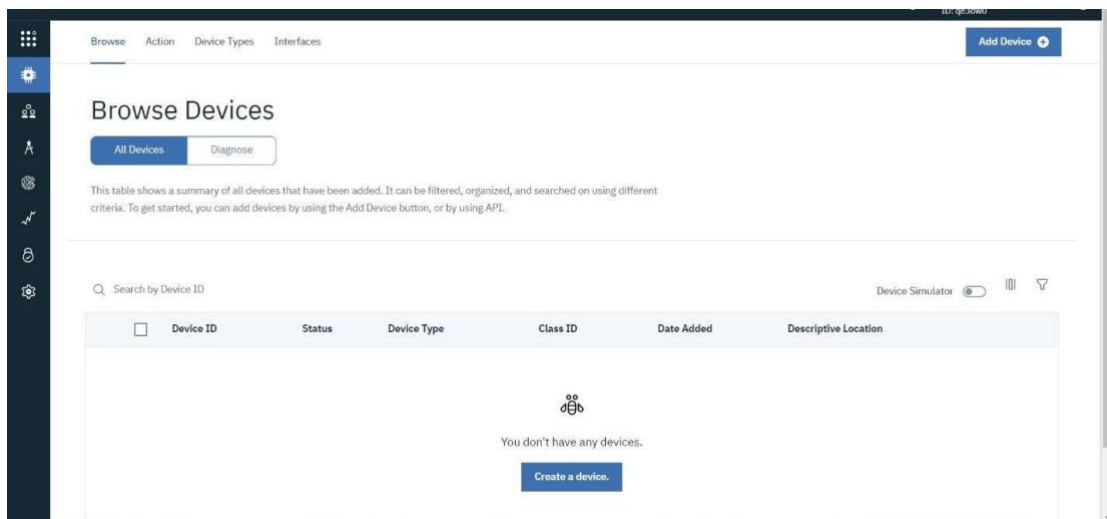
10. Enter the details to sign in to the Watson Cloud to create a device



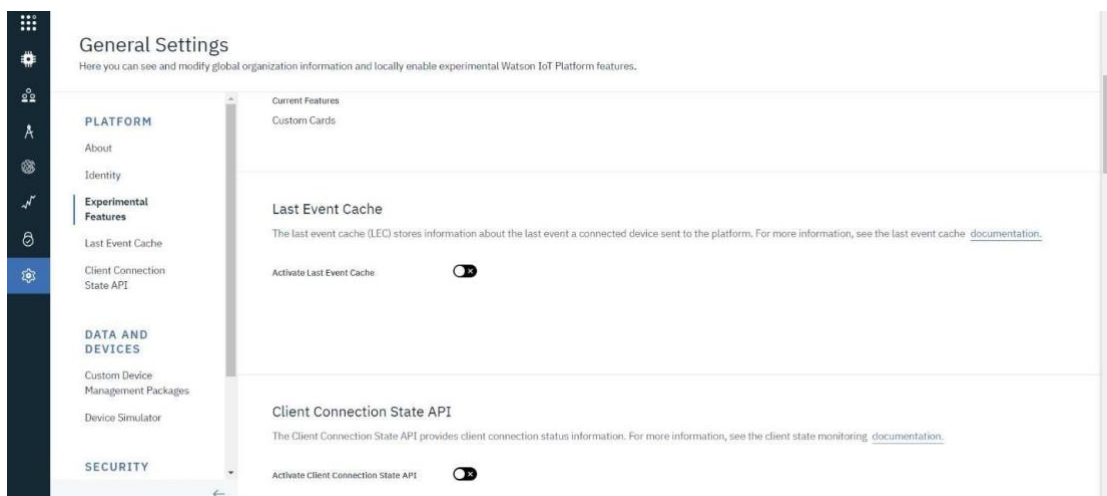
11. Once logged in the name will be displayed and it goes back to the first page



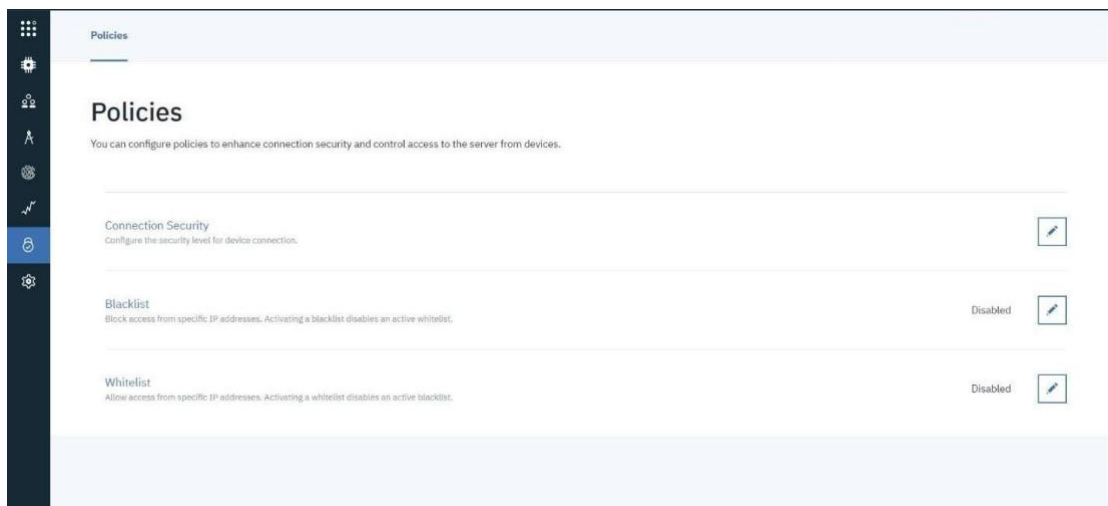
12. And again clicking on the launch button will open this tab, the device will help in the creation of the devices, the addition of devices, and the display of details of the devices.



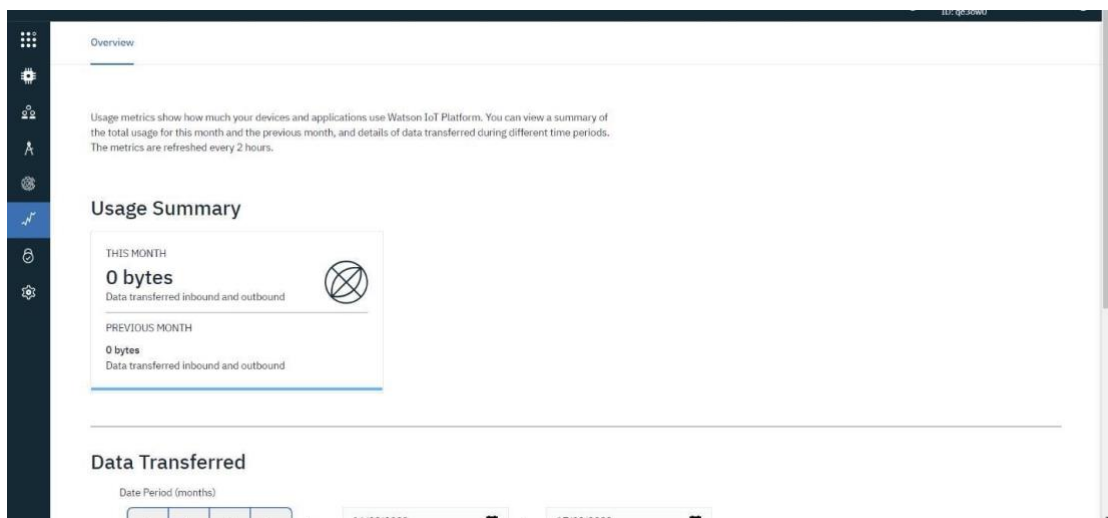
13. The setting tab is used to change the general setting if needed for the project.



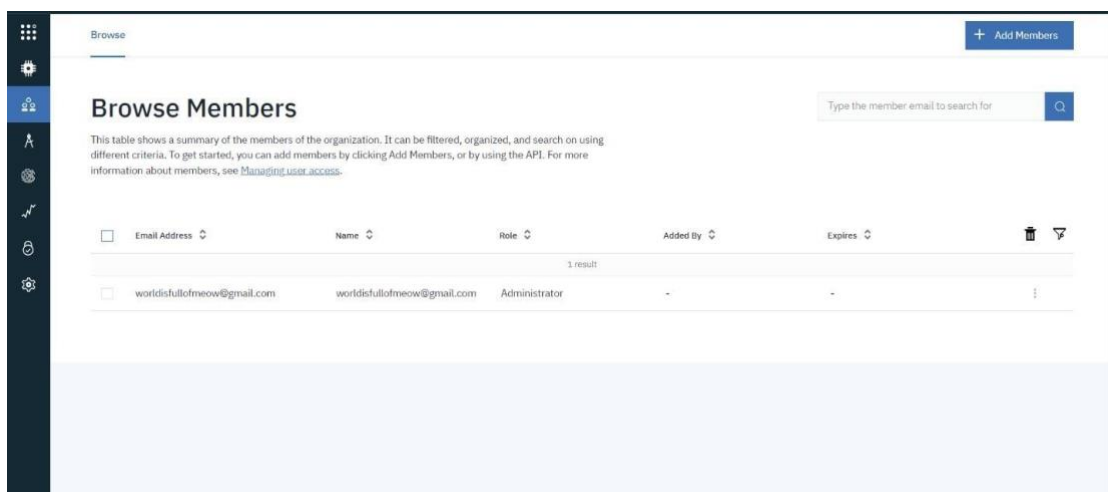
14. In the security tab we can choose the type of security connection and can change according to specification



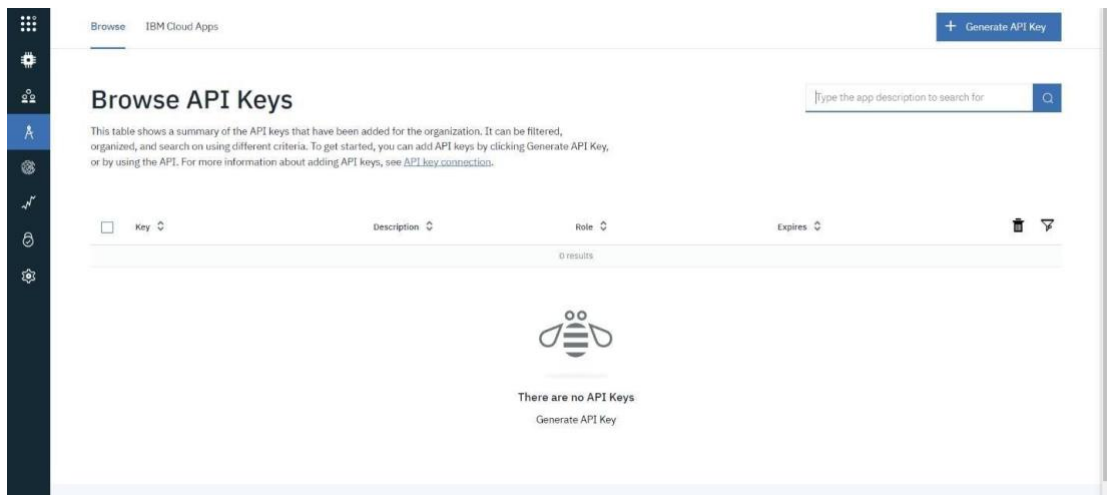
15. Usage gives the summary of how many bytes are used between the devices and the IBM cloud



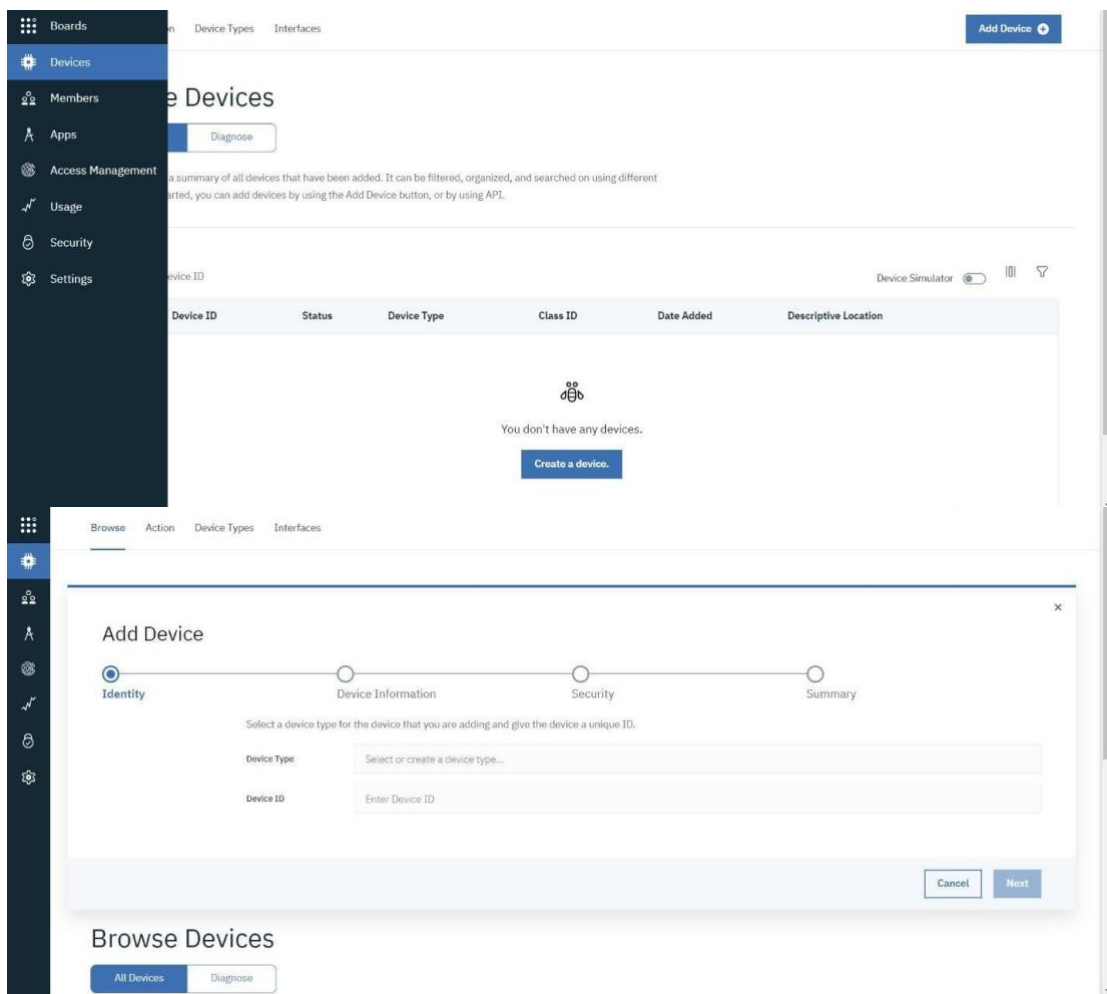
16. The member tab is add the teams members to work in the platform



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



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





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

The screenshot shows the 'Add Device' form in a web application. The form is titled 'Add Device' and has a progress bar at the top with four steps: Identity, Device Information (current step), Security, and Summary. The 'Device Information' step contains two columns of input fields. The left column has fields for 'Serial Number', 'Model', 'Description', and 'Hardware Version'. The right column has fields for 'Manufacturer', 'Device Class', 'Firmware Version', and 'Descriptive Location'. Below the left column is an 'Add Metadata' button. At the bottom right of the form are 'Back' and 'Next' buttons.

Identity    **Device Information**    Security    Summary

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

Serial Number    Enter Serial Number    Manufacturer    Enter Manufacturer

Model    Enter Model    Device Class    Enter Device Class

Description    Enter Description    Firmware Version    Enter Firmware Version

Hardware Version    Enter Hardware Version    Descriptive Location    Enter Descriptive Location

Add Metadata +

Back    Next

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

The screenshot shows the 'Add Device' form in a web application, now at the 'Security' step. The progress bar at the top shows 'Identity', 'Device Information', and 'Security' (current step), followed by 'Summary'. The 'Security' step contains two main sections: 'Auto-generated authentication token (default)' and 'Self-provided authentication token'. The 'Auto-generated' section explains that the service will generate a token and shows a generated token '1997199520012005'. The 'Self-provided' section explains that the user must provide their own token. At the bottom, there is a note about the token being encrypted.

Identity    Device Information    **Security**    Summary

There are two options for selecting a device authentication token.

**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.

Authentication Token    1997199520012005    ⓘ

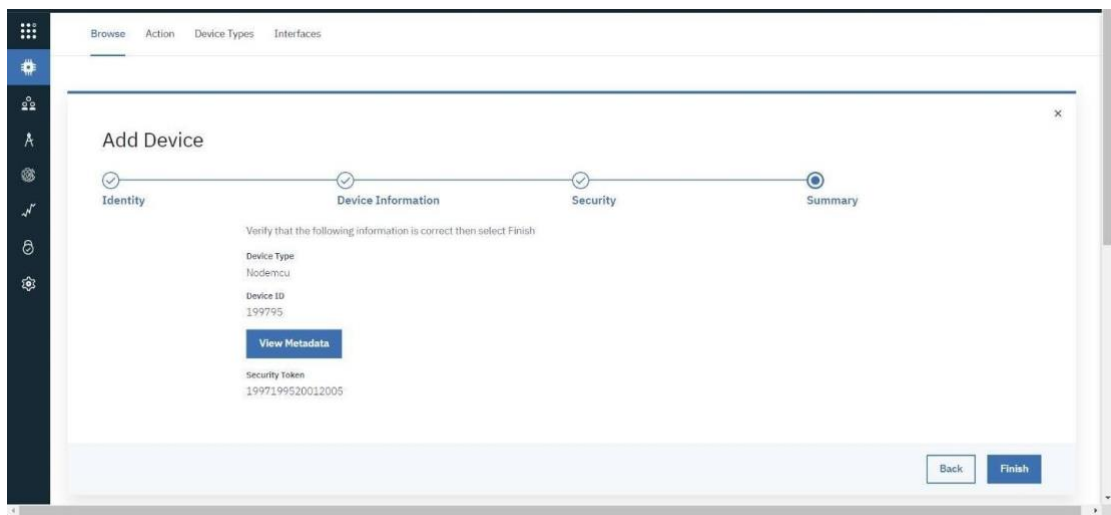
Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored.

Authentication token are encrypted before we store them.

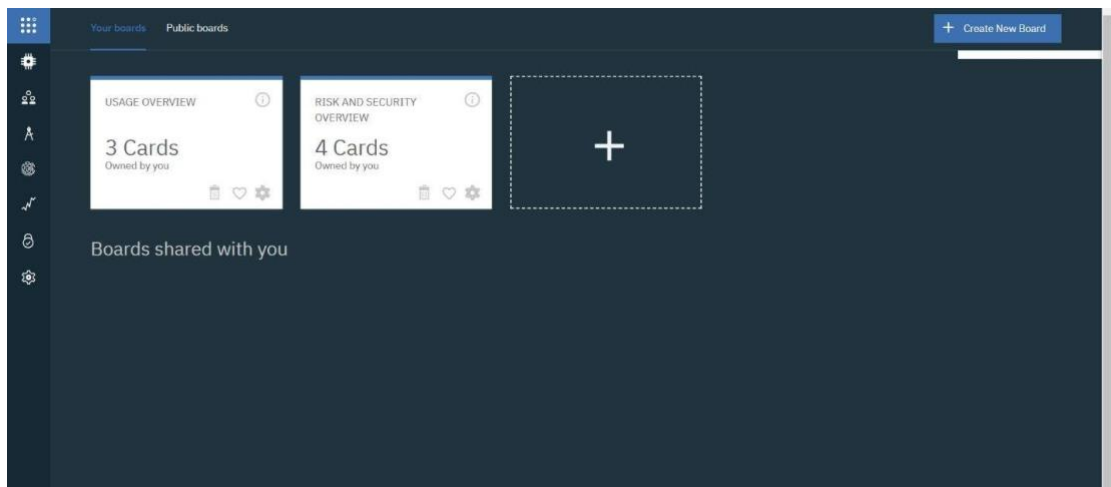
**Self-provided authentication token**

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.

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



22.The Boards will display card for the project.



## CONCLUSION:

An IBM Watson cloud for IoT and a device is created