

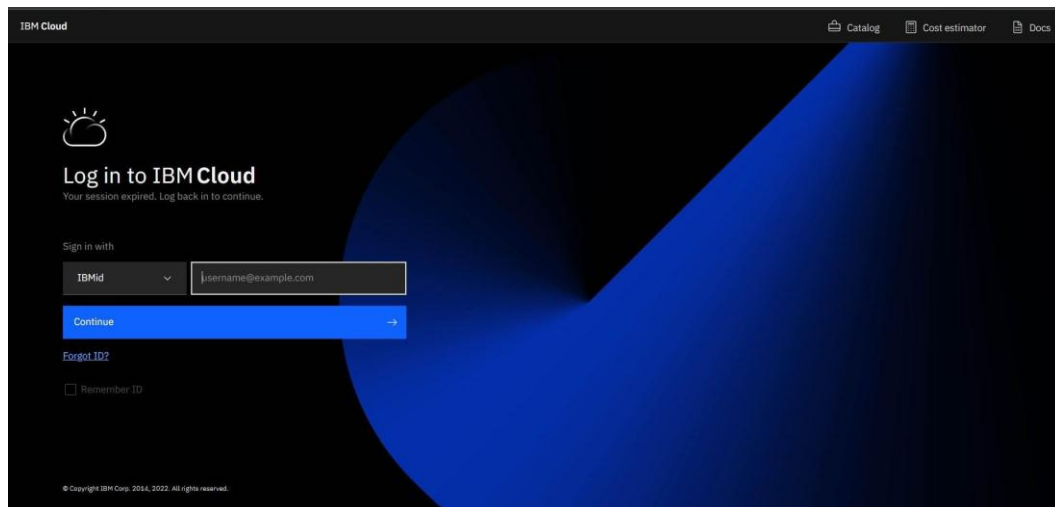
# CREATE IBM WATSON IOT PLATFORM AND DEVICE

TEAM ID	PNT2022TMID30731
PROJECT NAME	IOT Based Smart Crop Protection System for Agriculture

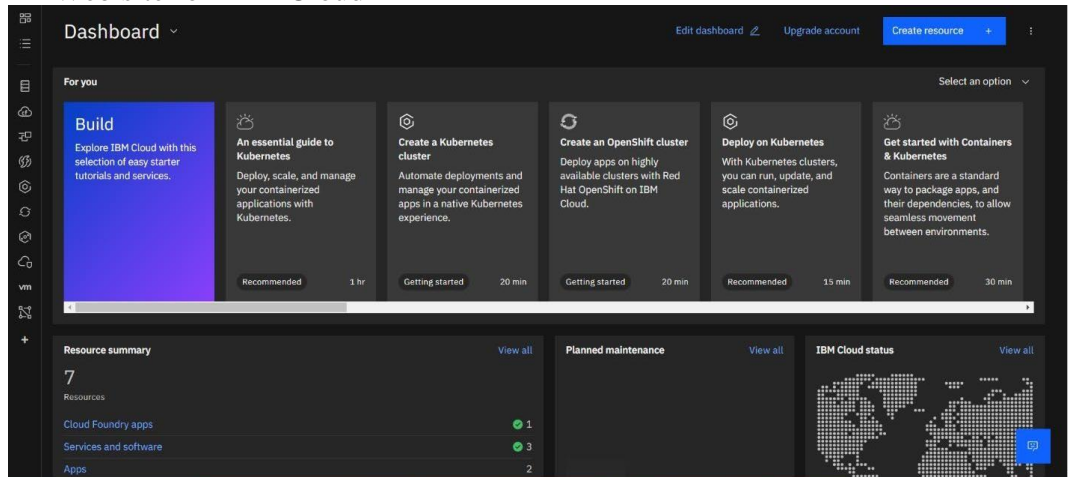
## IBM Watson IOT platform and device development

### STEPS:

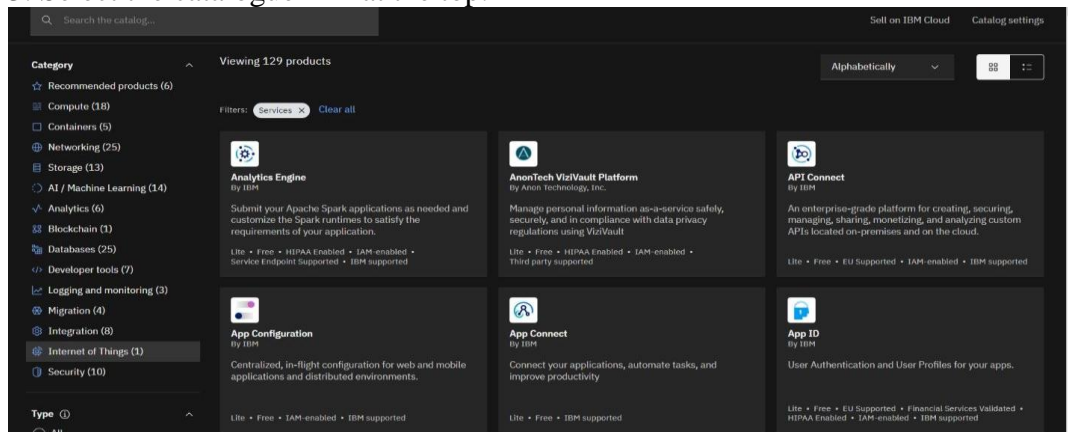
1. The unique IBM id and password are used to create an IBM cloud account.



2. Web site for IBM Cloud



3. Select the catalogue link at the top.



#### 4. Select IoT from the list of categories.

**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-bb

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

#### 5. If a lite already exists, remove it; otherwise, you cannot create another.

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**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: London

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.

Lite plan services are deleted after 30 days of inactivity.

**Configure your resource**

Service name: Internet of Things Platform-bb

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-bb

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

#### 6. Type the service name into the box under "Configure Your Resource," select the plan, check the box next to "Agree with Agreements," and then click "Create."

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**Create** About

Type: Service

Provider: IBM

Updated on: 08/15/2022

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Select a location: Dallas (us-south)

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Plan	Features	Pricing
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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	<p>Includes up to 500 registered devices, and a maximum of 200 MB of each data metric</p> <p>Maximum of 500 registered devices</p> <p>Maximum of 500 application bindings</p> <p>Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed</p> <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. Platform for Internet of Things There will be a new page called Child Safety with 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 \$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. The connection is used to link IOT with other services, while manage is for launch and plan informs us about the payment package and its upgrades.

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

Change pricing plan

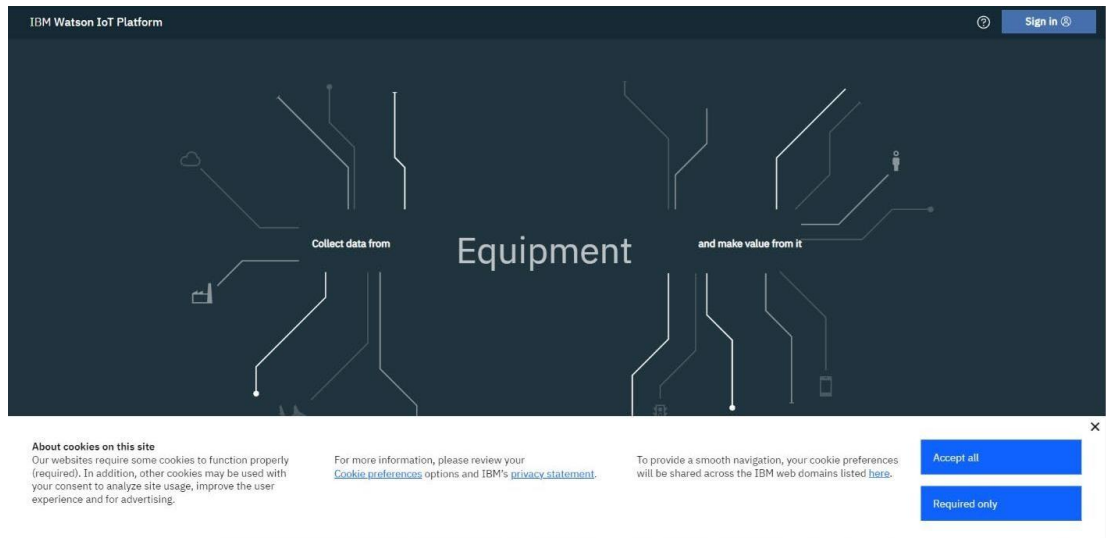
Plan	Features	Pricing
Lite	<p>Includes up to 500 registered devices, and a maximum of 200 MB of each data metric</p> <p>Maximum of 500 registered devices</p> <p>Maximum of 500 application bindings</p> <p>Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed</p>	Free

Current usage

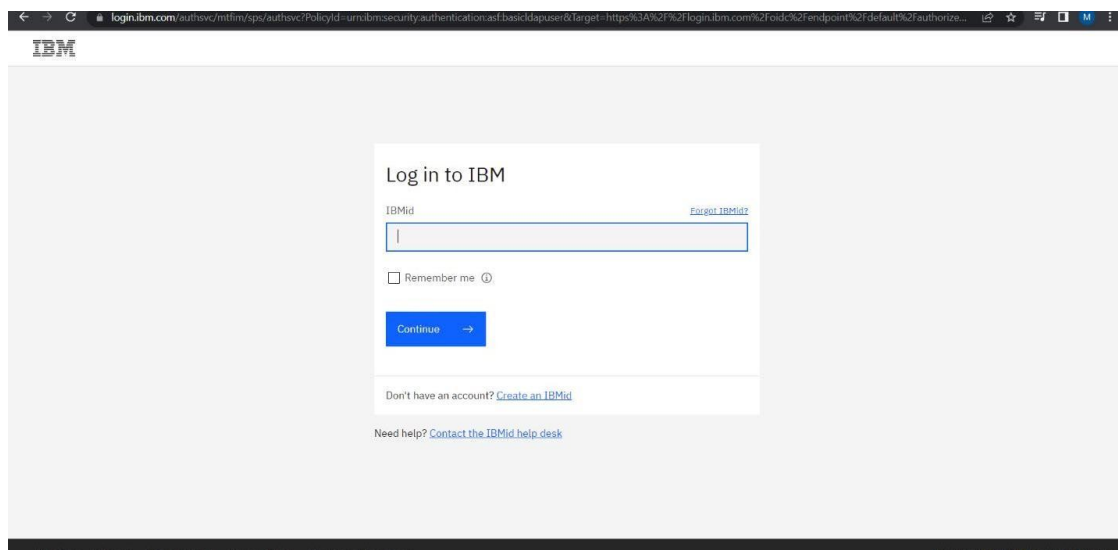
N/A

Lite plan services are deleted after 30 days of inactivity.

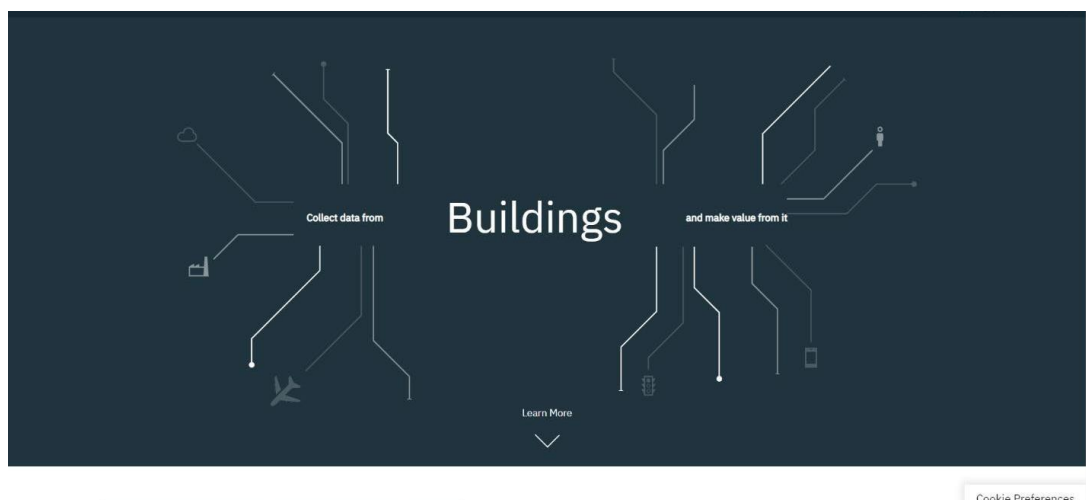
10. When you click the launch button on the Manage tab, this page will appear.



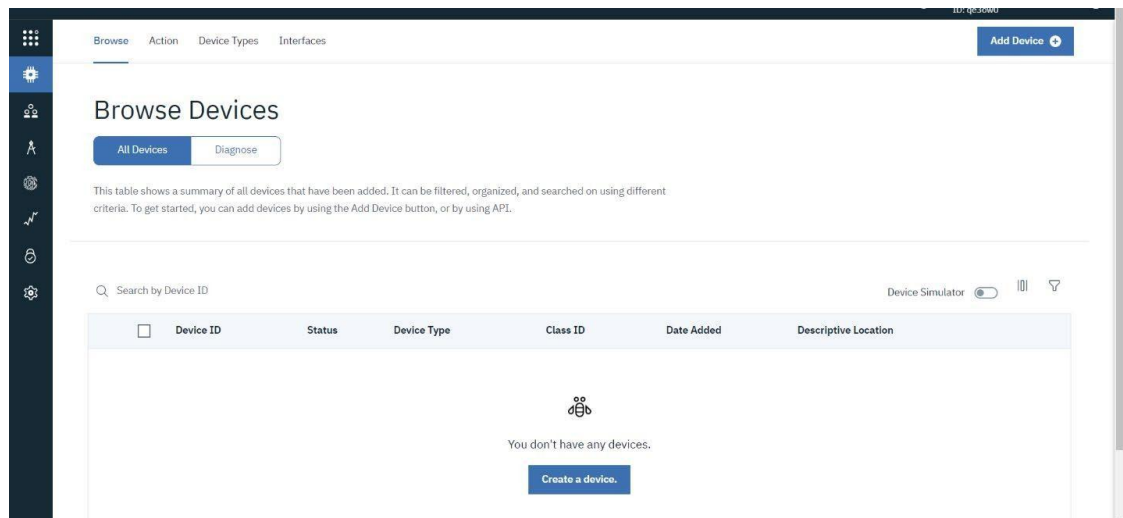
11. Fill in the information to create a device by logging into the Watson Cloud.



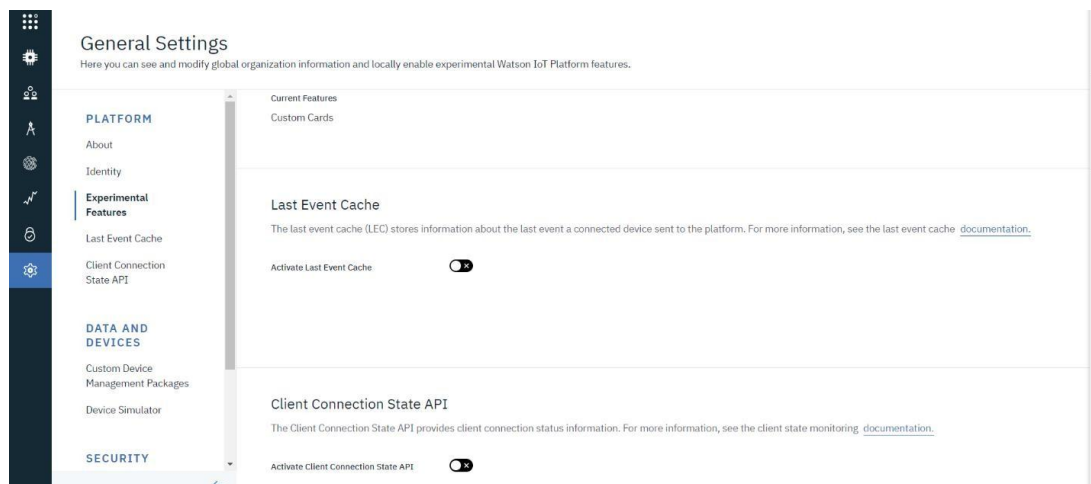
12. After logging in, the name is displayed and the page returns to the home page.



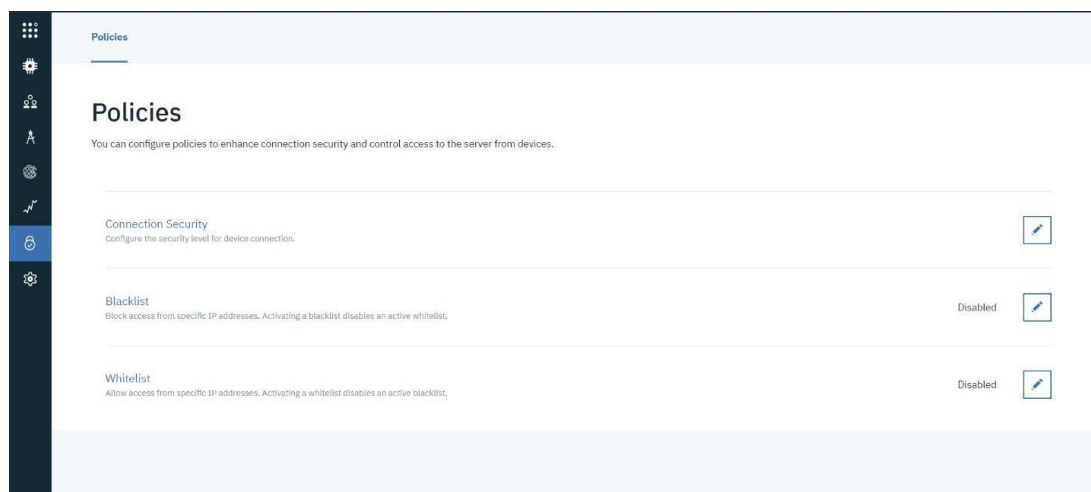
13. Clicking the launch button once more will open this tab, which contains a tool for creating and adding devices as well as for displaying information about them.



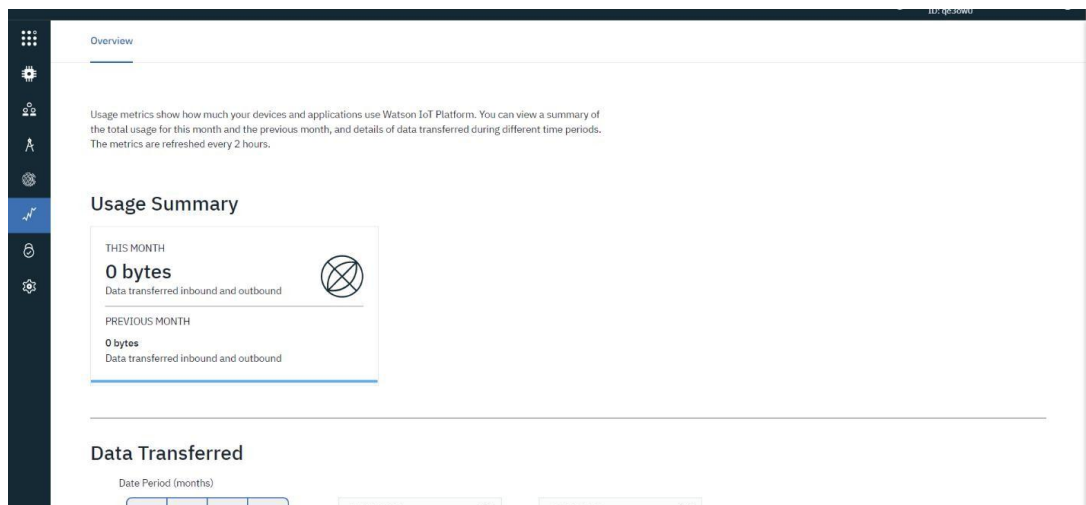
14. If necessary for the project, the general setting can be changed using the setting tab.



15. We can change the type of security connection and the specification in the security tab.



16. Usage summarises the amount of data transferred between the devices and the IBM cloud.



17. The team members are added to the platform through the member tab.

The screenshot shows the 'Browse Members' page. It includes a search bar with the placeholder 'Type the member email to search for'. Below the search bar, a table lists members. The table has columns for 'Email Address', 'Name', 'Role', 'Added By', and 'Expires'. There is one result listed.

Email Address	Name	Role	Added By	Expires
worldisfullofmeow@gmail.com	worldisfullofmeow@gmail.com	Administrator	-	-

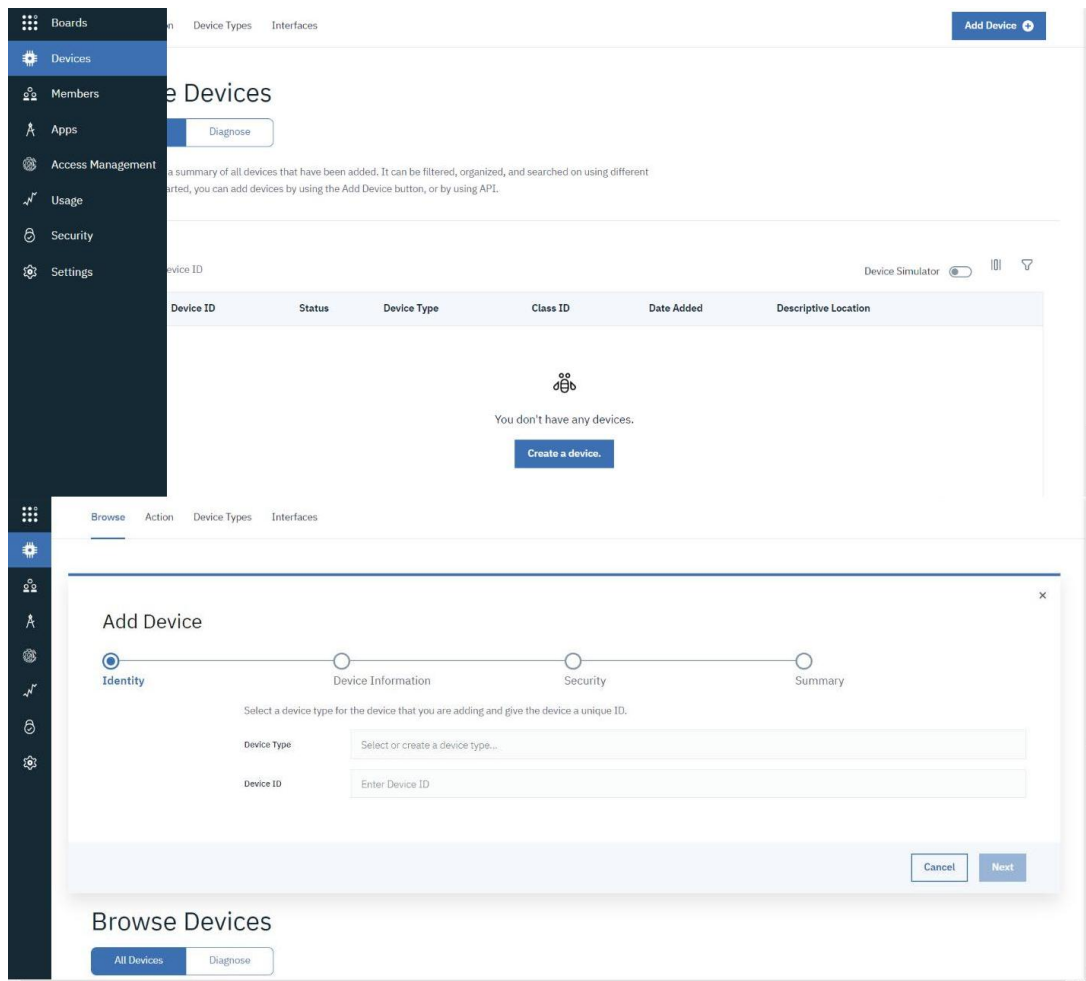
18. When you want to connect to another platform and integrate with other services, you use this tab.

The screenshot shows the 'Browse API Keys' page. It includes a search bar with the placeholder 'Type the app description to search for'. Below the search bar, a table lists API keys. The table has columns for 'Key', 'Description', 'Role', and 'Expires'. There are 0 results listed.

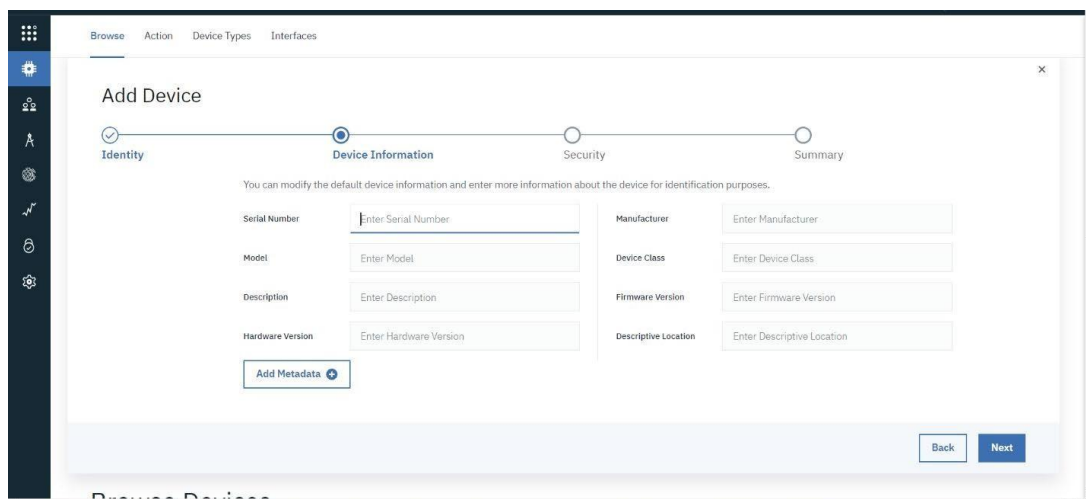
Key	Description	Role	Expires
0 results			

There are no API Keys  
Generate API Key

19. Select the device tab, select Add Device, enter the device type and device id, and select Next.

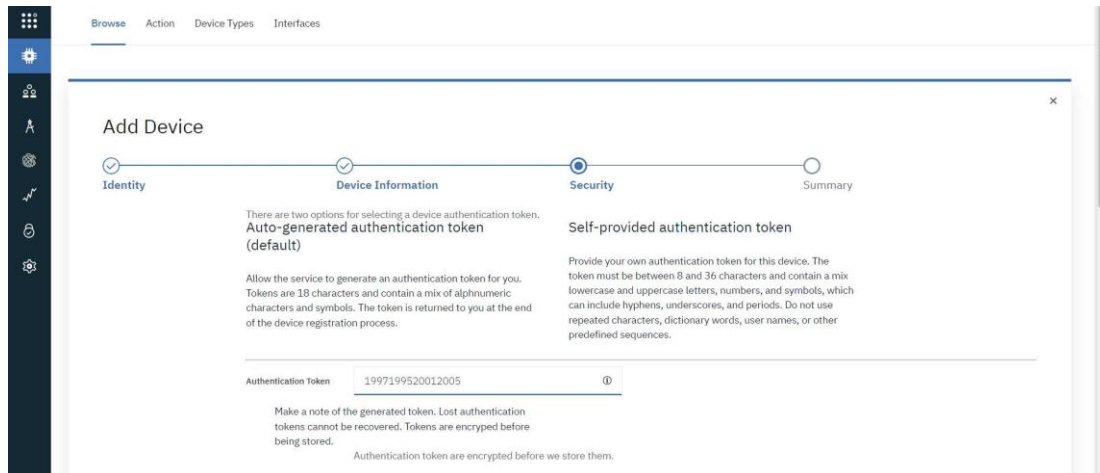


20. This page to add additional information and of the hardware

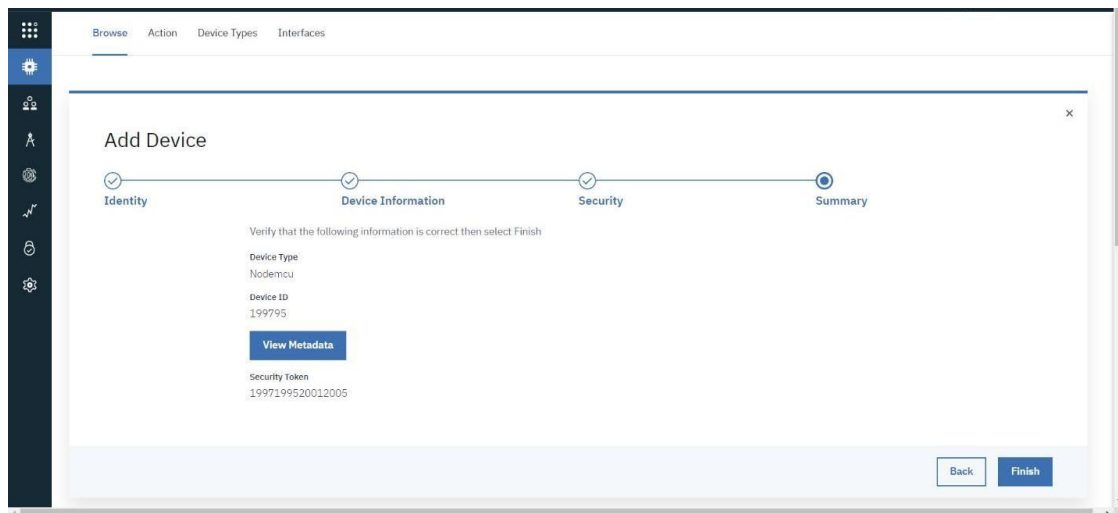


21. After clicking next, the security screen appears, where we perform authentication token id.





22. After selecting Next, the device's summary is displayed. Finally, select Finish.



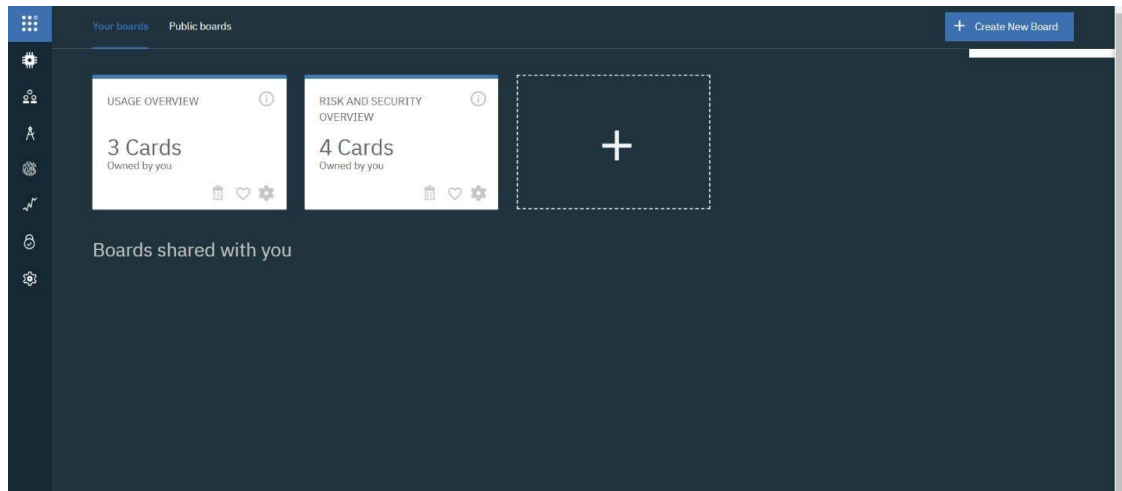
23. A detailed display of the device credentials will appear.

24. Protect the device information because authentication tokens are non-recoverable and must be created anew if lost..

25. We can now see the newly inserted device by clicking the device tab. The further information will be shown when you click on it. There are several tabs on it, including Identity, Device Information, State, and Login. According to the specifications of our project, we can similarly create n number of devices with a 50 per page limit.

26.The project cards will be displayed on the boards.





## **CONCLUSION:**

A device and an IBM Watson cloud are developed.