

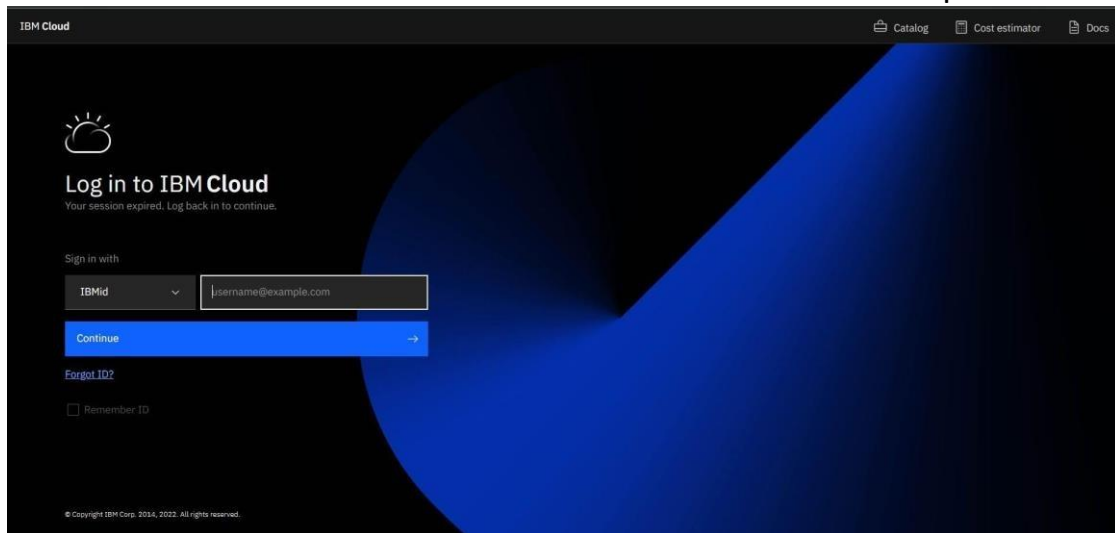
CREATE IBM WATSON IOT PLATFORM AND DEVICE

Project name	lot Based Smart Crop Protection System for Agriculture
Team ID	PNT2022TMID12470

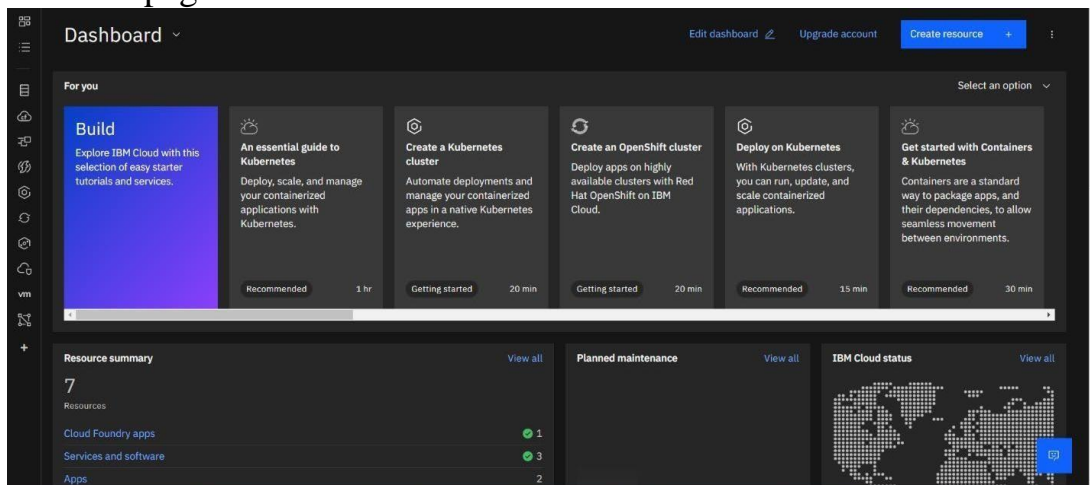
To create the IBM Watson IOT platform and device

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

Search the catalog...

Self on IBM CloudCatalog settings

Category

Recommended products (6)

Compute (18)

Containers (5)

Networking (25)

Storage (13)

AI / Machine Learning (14)

Analytics (6)

Blockchain (1)

Databases (25)

Developer tools (7)

Logging and monitoring (3)

Migration (4)

Integration (8)


Internet of Things (1)

Security (10)

Viewing 129 products


Alphabetically

Filters: Services xClear all

**Analytics Engine**
By IBM


Submit your Apache Spark applications as needed and customize the Spark runtimes to satisfy the requirements of your application.

Lite • Free • HIPAA Enabled • IAM-enabled • Service Endpoint Supported • IBM supported

**AnonTech ViciVault Platform**
By Anon Technology, Inc.


Manage personal information as-a-service safely, securely, and in compliance with data privacy regulations using ViciVault

Lite • Free • HIPAA Enabled • IAM-enabled • Third party supported

**API Connect**
By IBM


An enterprise-grade platform for creating, securing, managing, sharing, monetizing, and analyzing custom APIs located on-premises and on the cloud.

Lite • Free • EU Supported • IAM-enabled • IBM supported

**App Configuration**
By IBM


Centralized, in-flight configuration for web and mobile applications and distributed environments.

Lite • Free • IAM-enabled • IBM supported

**App Connect**
By IBM

Connect your applications, automate tasks, and improve productivity

Lite • Free • IBM supported

**App ID**
By IBM

User Authentication and User Profiles for your apps.

Lite • Free • EU Supported • Financial Services Validated • HIPAA Enabled • IAM-enabled • IBM supported

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: 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.

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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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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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>	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.

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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

7. 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 \$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

8. 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

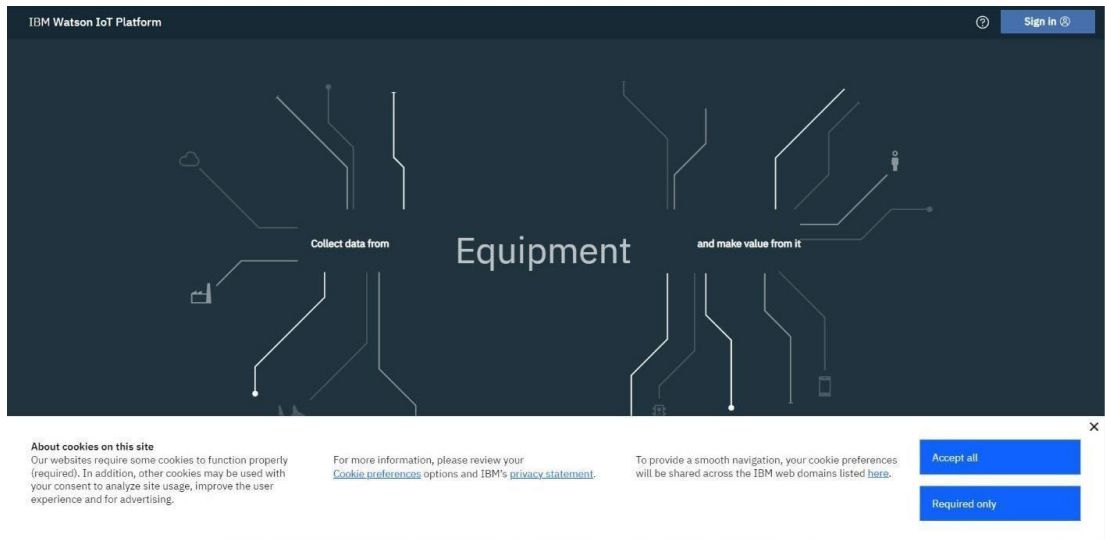
N/A

Lite plan services are deleted after 30 days of inactivity.

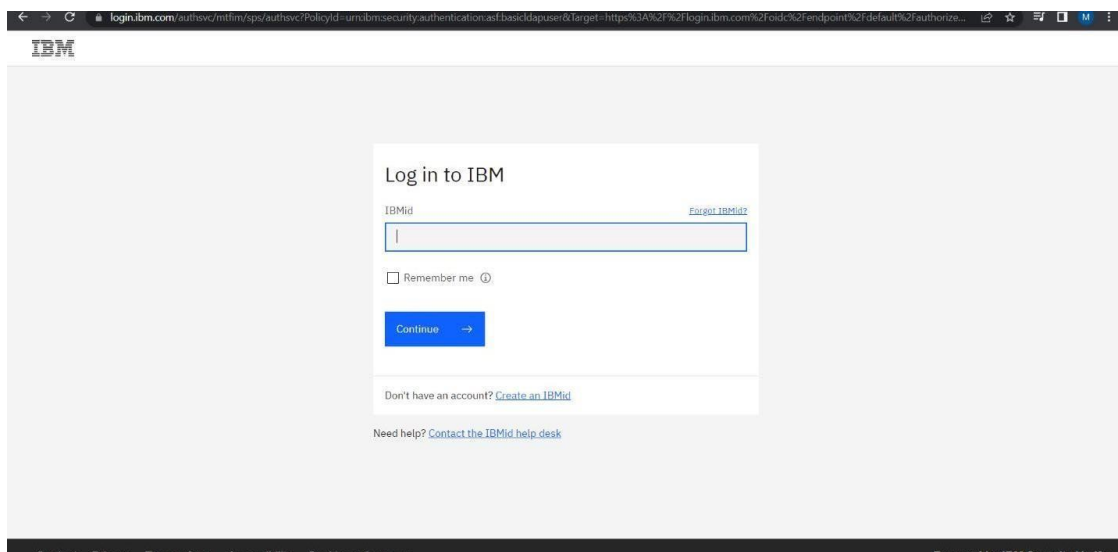
Change pricing plan

Plan	Features	Pricing
Lite	<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

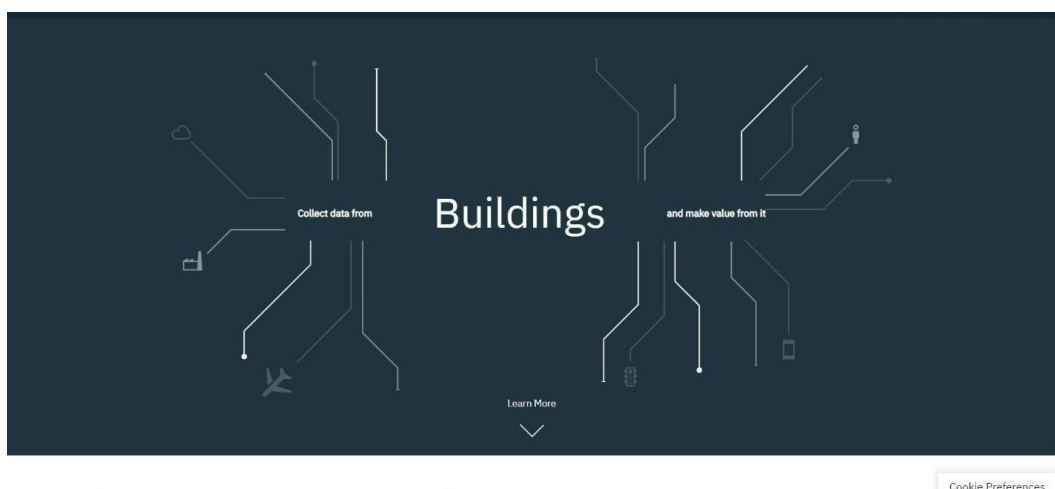
9. Click on the launch button in the manage tab, it will open to this



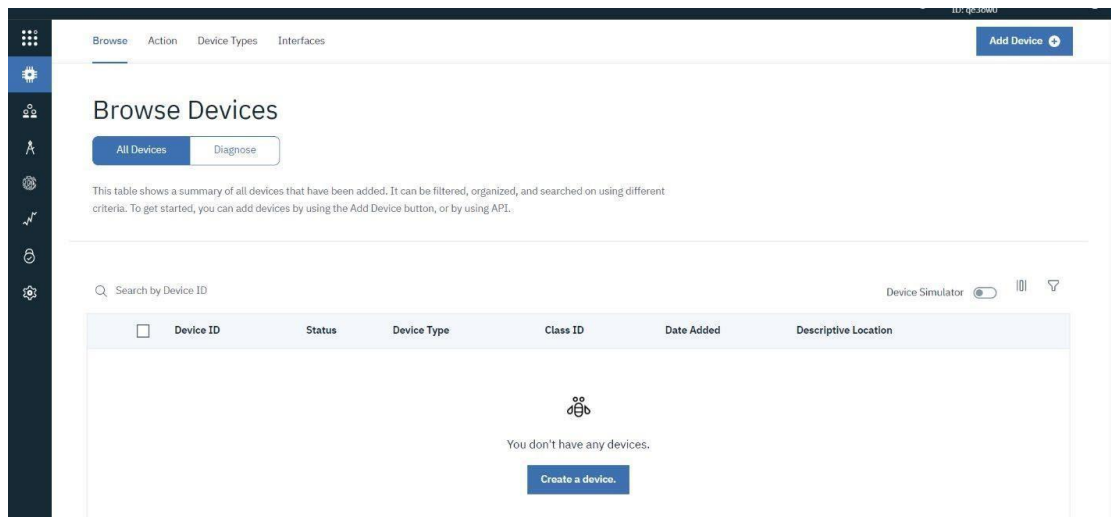
10. Enter the details to sign in to the Watson Cloud to create a device



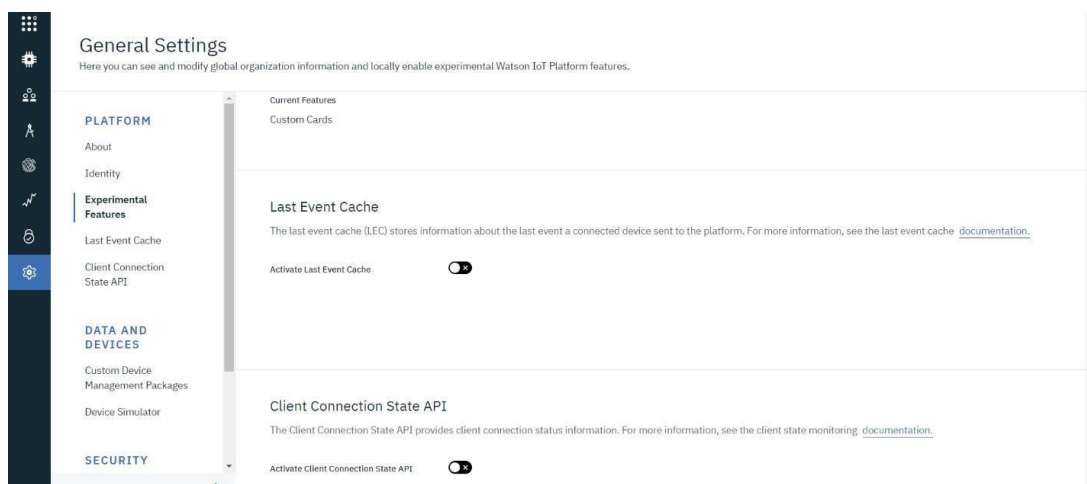
11. Once logged in the name will be displayed and it goes back to the first page



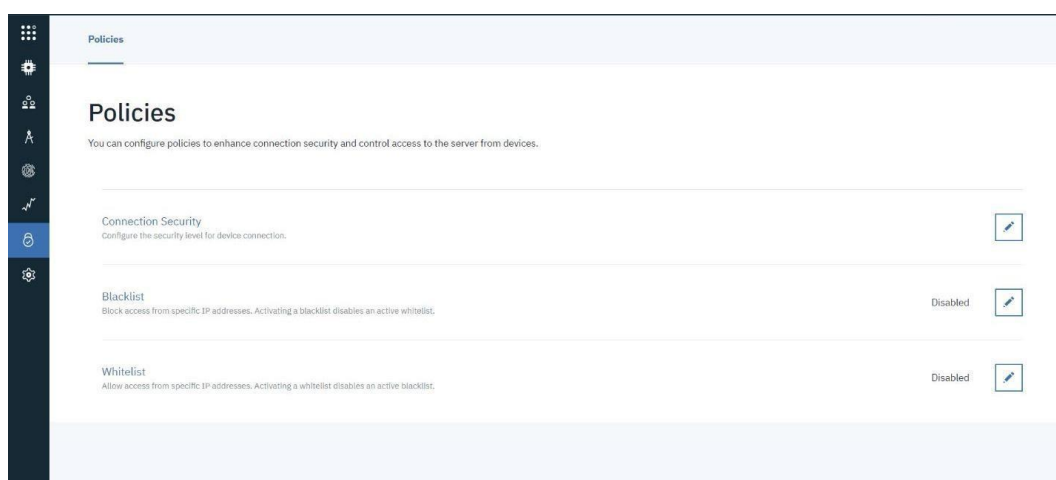
12. And again clicking on the launch button will open this tab, the device will help in the creation of the devices, the addition of devices, and the display of details of the devices.



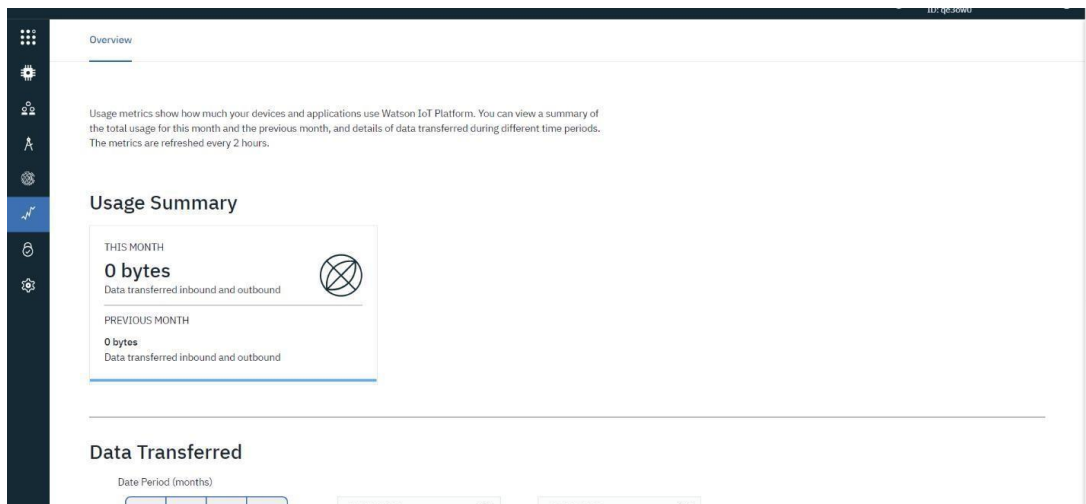
13. The setting tab is used to change the general setting if needed for the project.



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

The screenshot shows the 'Browse Members' page in the IBM Watson IoT Platform. It includes a search bar, a table with one member, and a sidebar with navigation icons. The table has columns for Email Address, Name, Role, Added By, and Expires.

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

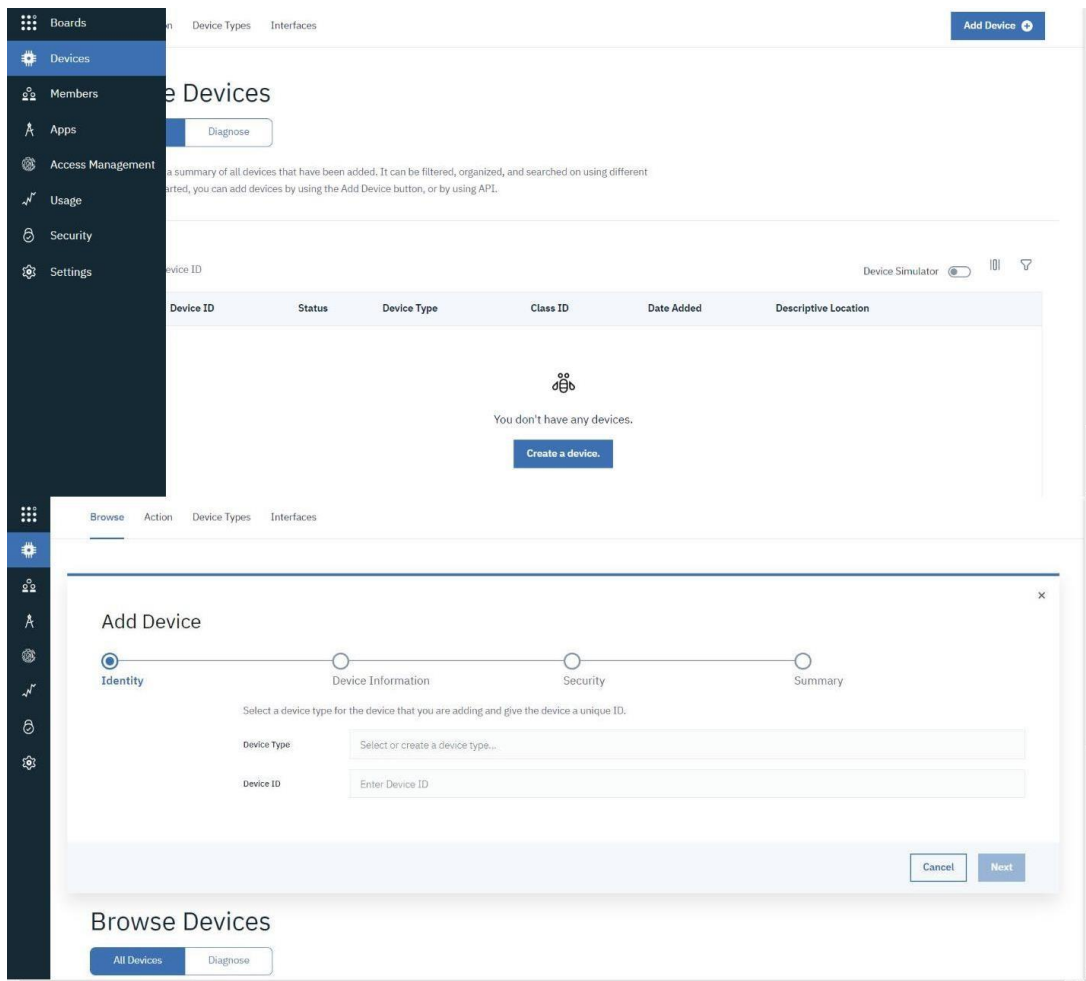
17. This tab is used when you want to connect to some other platform and to integrate with other services.

The screenshot shows the 'Browse API Keys' page in the IBM Watson IoT Platform. It includes a search bar, a table with no results, and a sidebar with navigation icons. The table has columns for Key, Description, Role, and Expires.

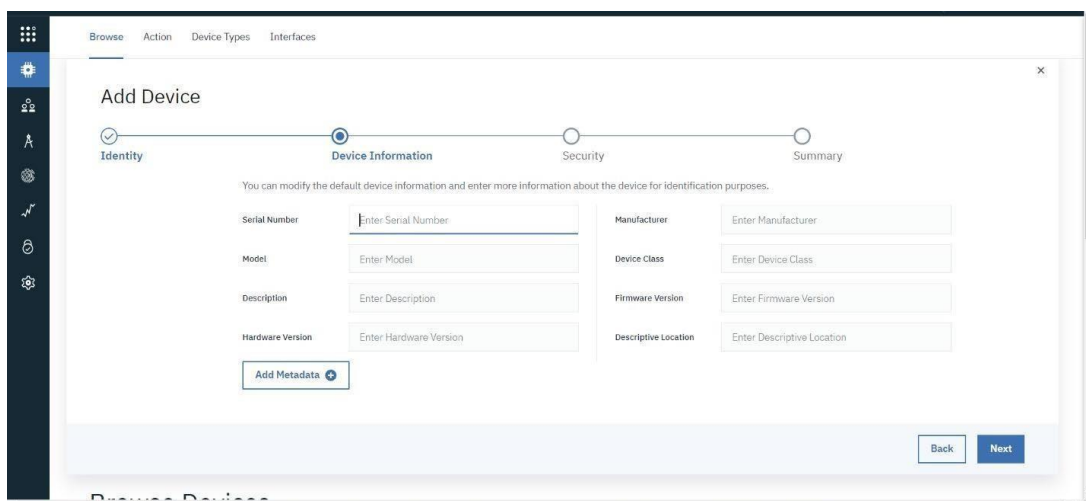
Key	Description	Role	Expires
0 results			

There are no API Keys
Generate API Key

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



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

Add Device

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

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.

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

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

Add Device

Identity Device Information Security **Summary**

Verify that the following information is correct then select Finish

Device Type: Nodemcu

Device ID: 199795

[View Metadata](#)

Security Token: 1997199520012005

[Back](#) [Finish](#)

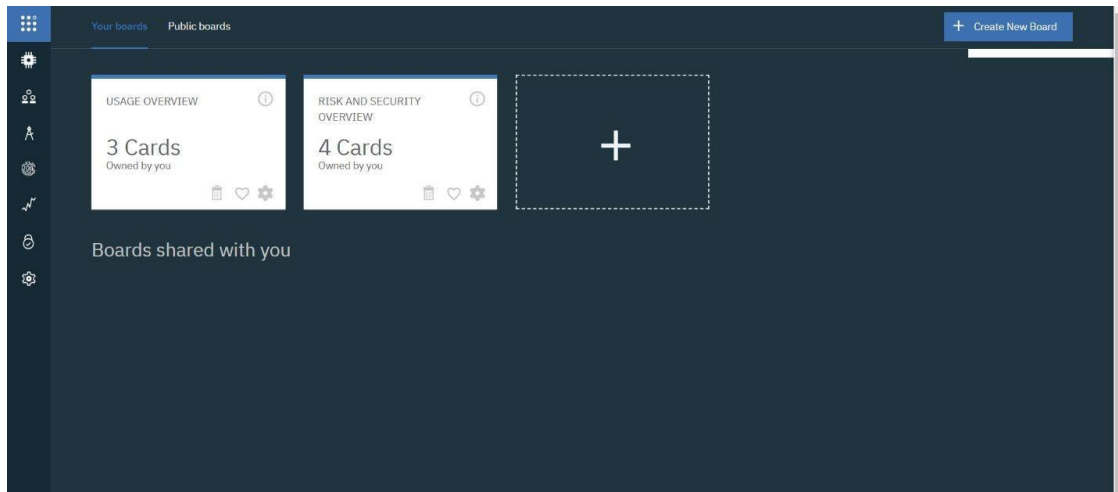
22. The device credentials will be displayed with all the details

23. 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