

TEAM ID: PNT2022TMID20342

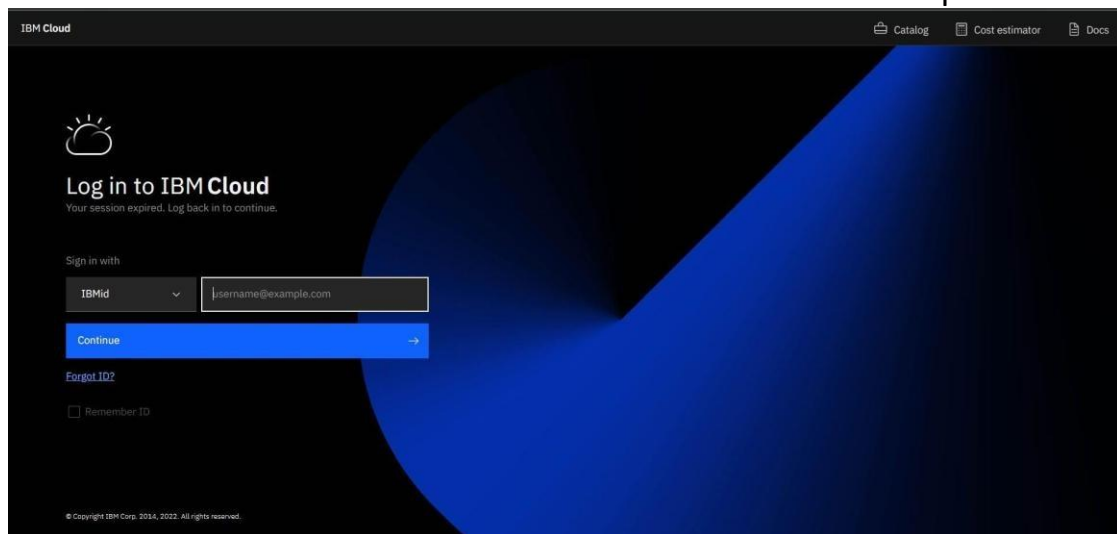
PROJECT NAME: IoT BASED SMARTCROP PROTECTION SYSTEM FOR AGRICULTURE

CREATE IBM WATSON IOT PLATFORM AND DEVICE

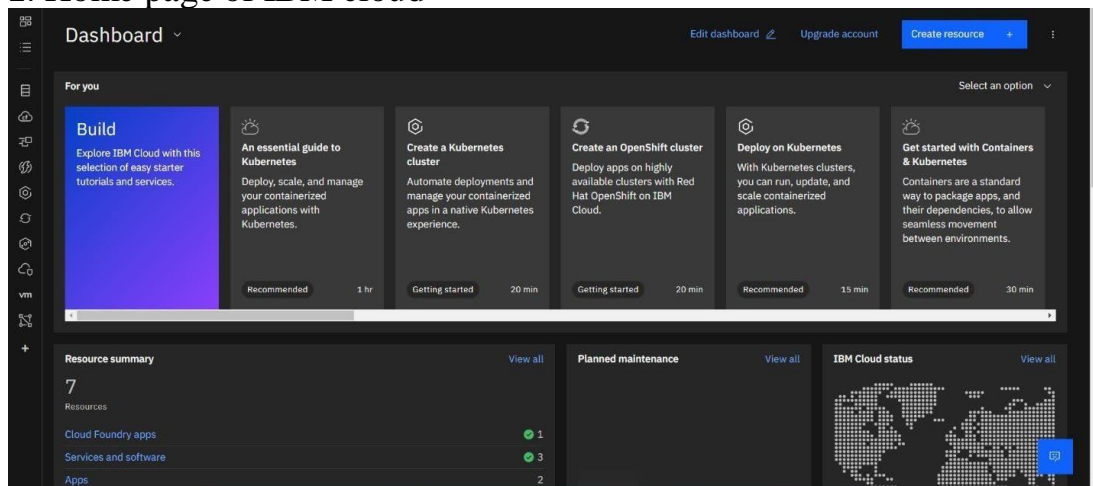
1. To create the IBM Watson IOT platform and device

STEPS:

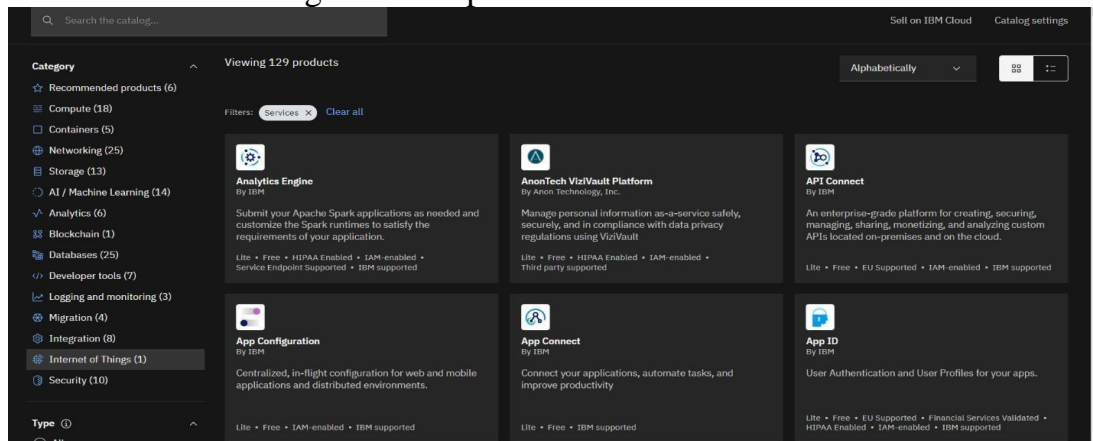
1. create an IBM cloud account with the individual IBM id and password



2. Home page of IBM cloud



3. Click on the catalog on the top



4. Click on IoT in the category mentioned

The screenshot shows the 'Internet of Things Platform' service page. The 'Create' tab is active. Under 'Select a location', 'Dallas (us-south)' is selected. Under 'Select a pricing plan', the 'Lite' plan is selected. The 'Lite' plan features include: up to 500 registered devices, 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 pricing is 'Free'. On the right, the 'Summary' section shows: 'Internet of Things Platform', 'Free', 'Location: Dallas', 'Plan: Lite', 'Service name: Internet of Things Platform-bb', 'Resource group: Default'. A warning message states: '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.' There are checkboxes for 'I have read and agree to the following license agreements:' and buttons for 'Create' and 'Add to estimate'.

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

The screenshot shows the 'Configure your resource' section. The 'Service name' is 'Internet of Things Platform-bb'. The 'Select a resource group' is 'Default'. The 'Tags' field has the example 'Examples: env:dev, version-1'. The 'Access management tags' field has the example 'Examples: access:dev, proj:version-1'. The 'Summary' section on the right is the same as in the previous screenshot, showing the 'Existing Lite plan instance' warning. The 'Create' and 'Add to estimate' buttons are visible.

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

The screenshot shows the 'Internet of Things Platform' service page with the 'Create' button highlighted. The 'Location' is 'Dallas (us-south)' and the 'Plan' is 'Lite'. The 'Summary' section on the right shows the 'Existing Lite plan instance' warning. The 'Create' button is highlighted, indicating the next step in the process.

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"> 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-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

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 \$300 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

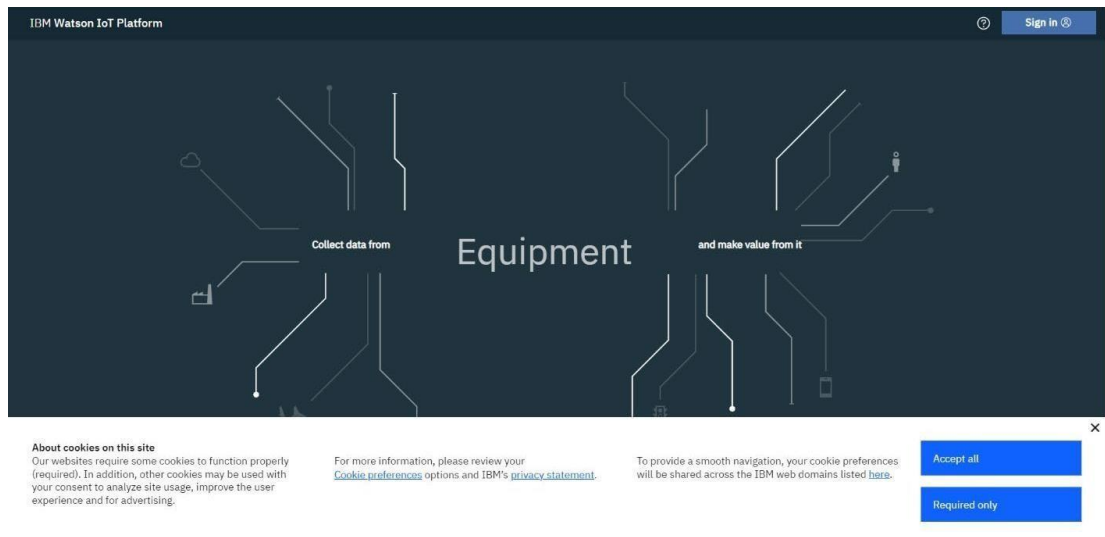
N/A

Lite plan services are deleted after 30 days of inactivity.

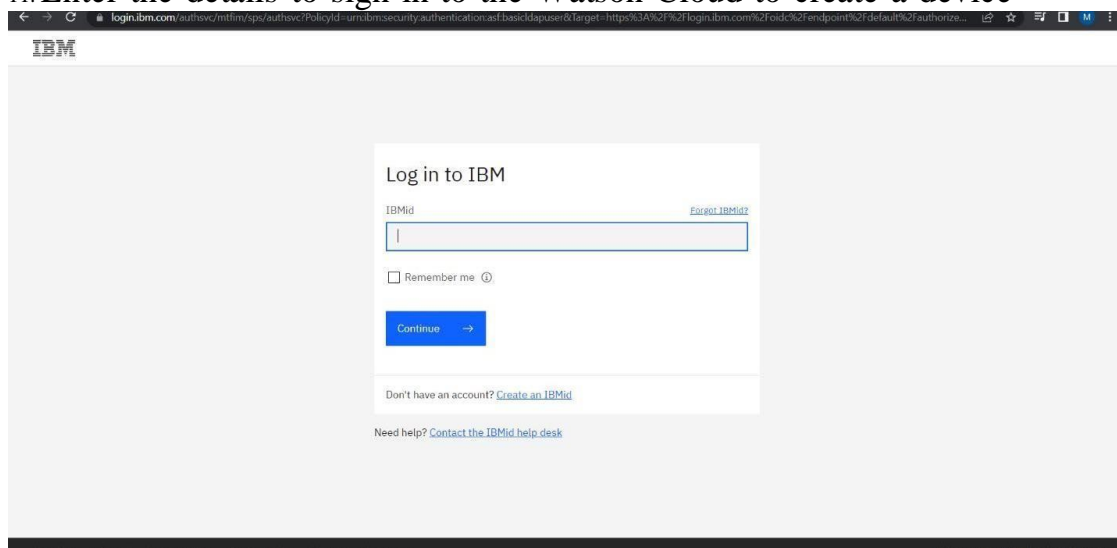
Change pricing plan

Plan	Features	Pricing
Lite	<ul style="list-style-type: none"> 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

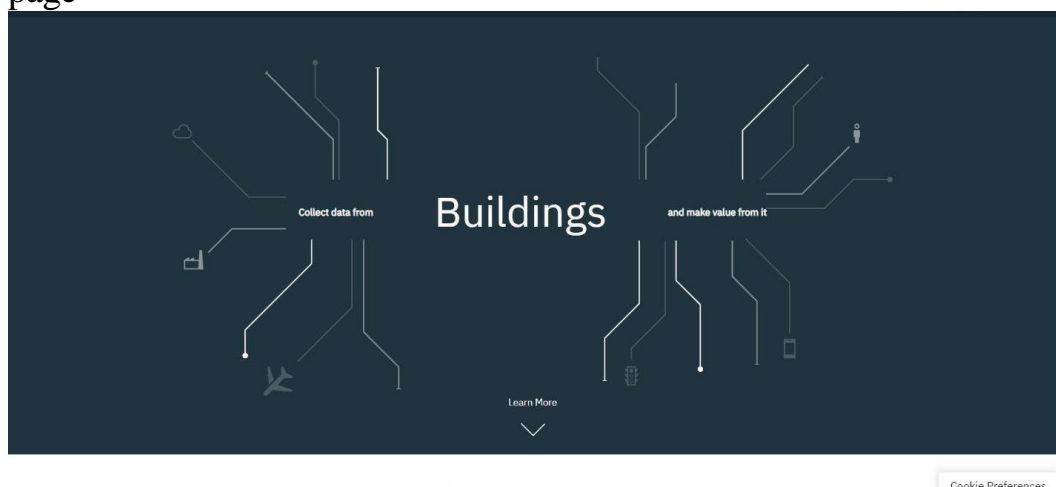
10. Click on the launch button in the manage tab, it will open to this



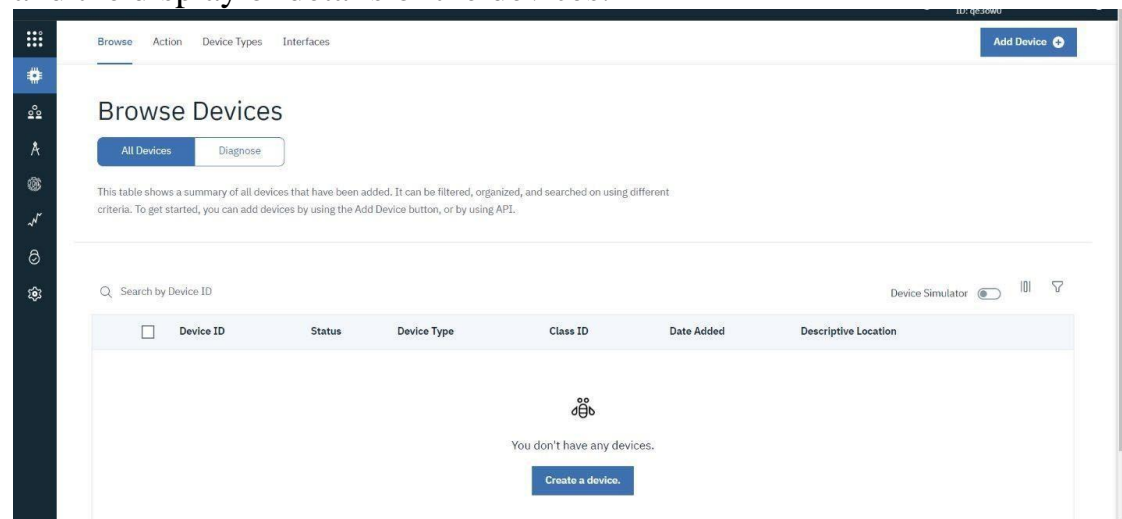
11. Enter the details to sign in to the Watson Cloud to create a device



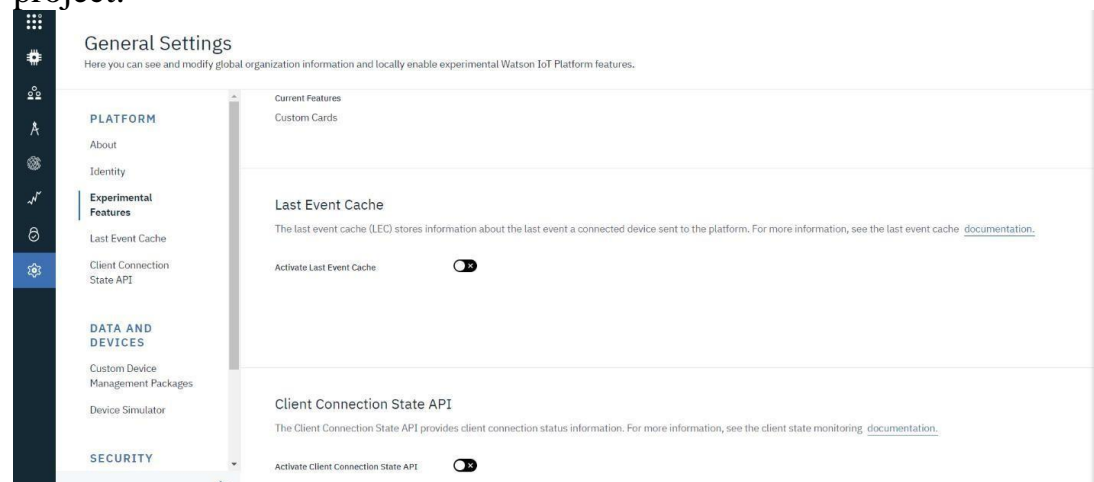
12. Once logged in the name will be displayed and it goes back to the first page



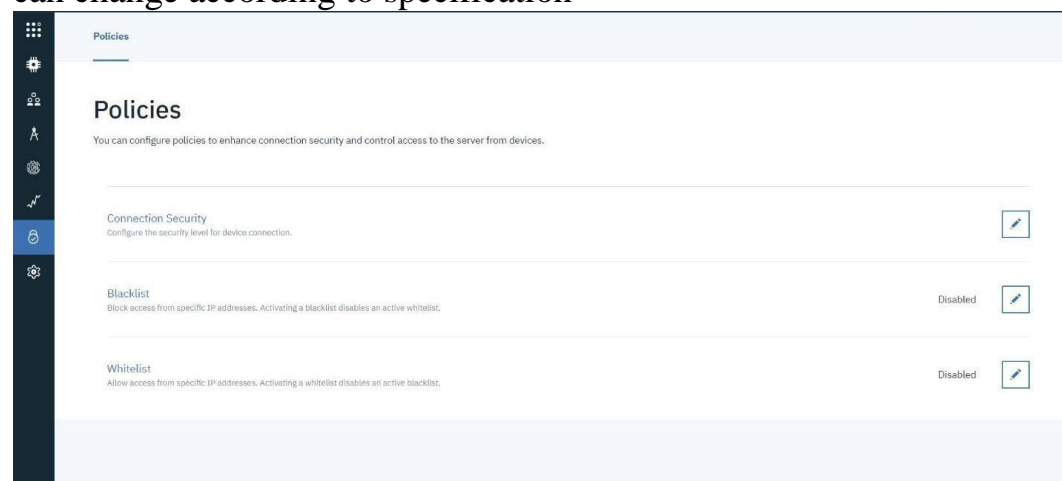
13. And again clicking on the launch button will open this tab, the device will help in the creation of the devices, the addition of devices, and the display of details of the devices.



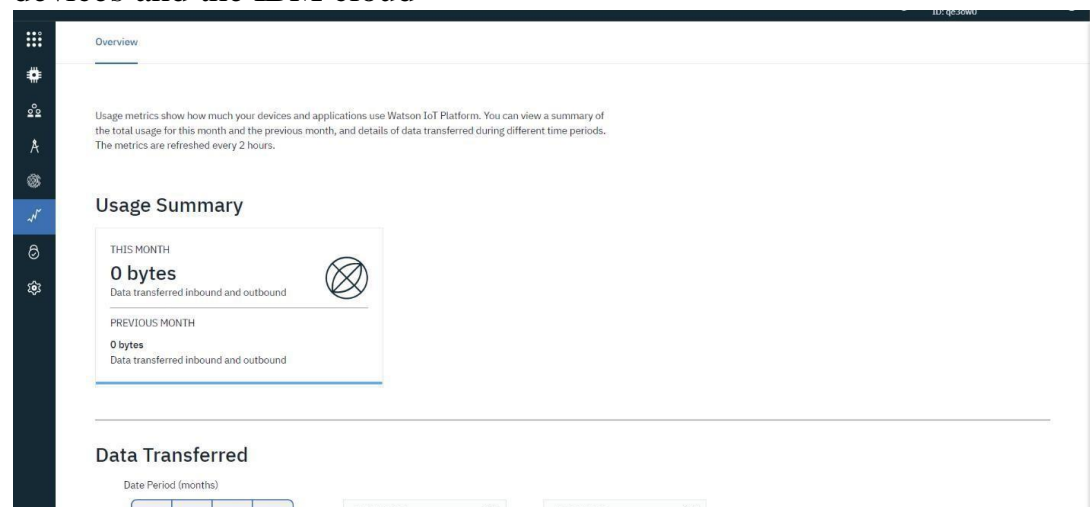
14. The setting tab is used to change the general setting if needed for the project.



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 with the placeholder 'Type the member email to search for'. Below the search bar, a table lists the members of the organization. The table has columns for 'Email Address', 'Name', 'Role', 'Added By', and 'Expires'. There is one result listed: 'worldisfullofmeow@gmail.com' with the role 'Administrator'.

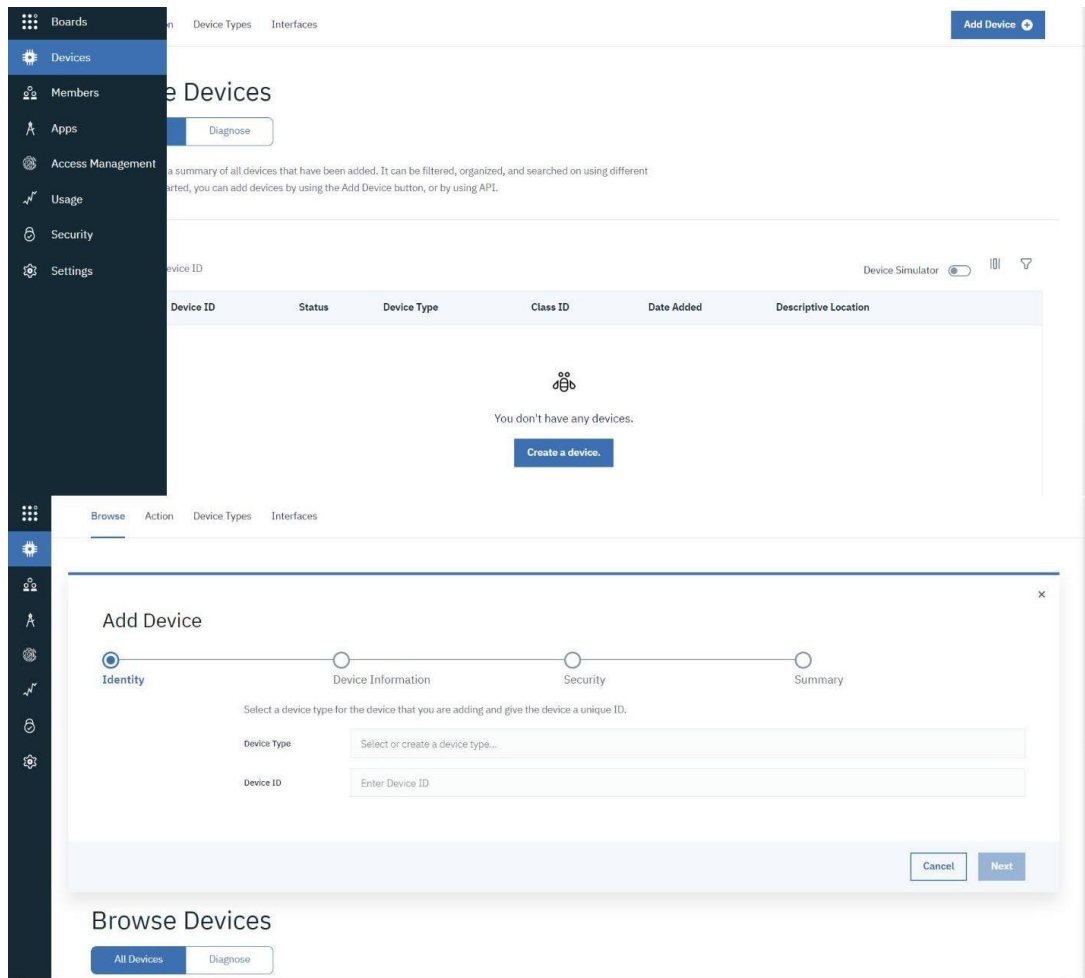
Email Address	Name	Role	Added By	Expires
worldisfullofmeow@gmail.com	worldisfullofmeow@gmail.com	Administrator	-	-

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

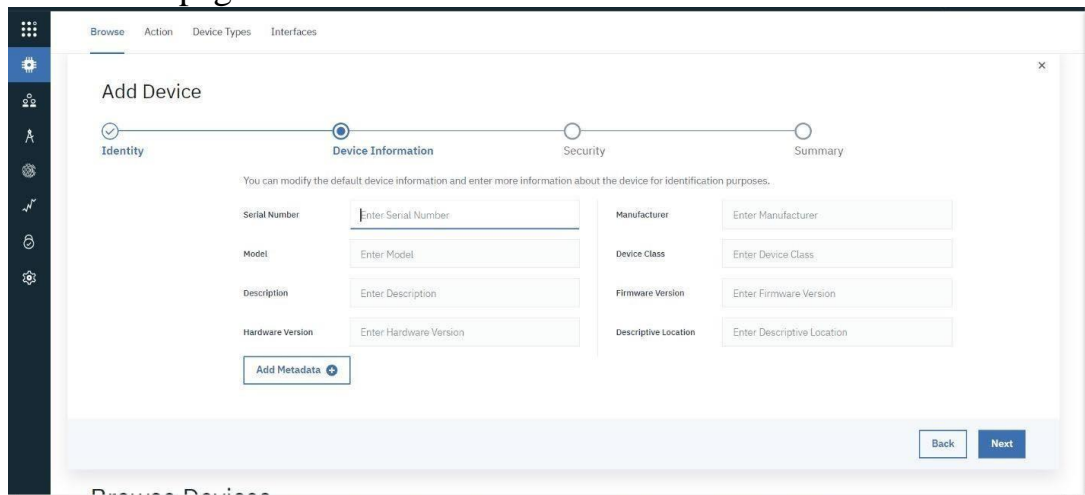
The screenshot shows the 'Browse API Keys' page. It includes a search bar with the placeholder 'Type the app description to search for'. Below the search bar, a table lists the API keys that have been added for the organization. The table has columns for 'Key', 'Description', 'Role', and 'Expires'. There are 0 results listed. Below the table, there is a message 'There are no API Keys' and a button 'Generate API Key'.

Key	Description	Role	Expires
0 results			

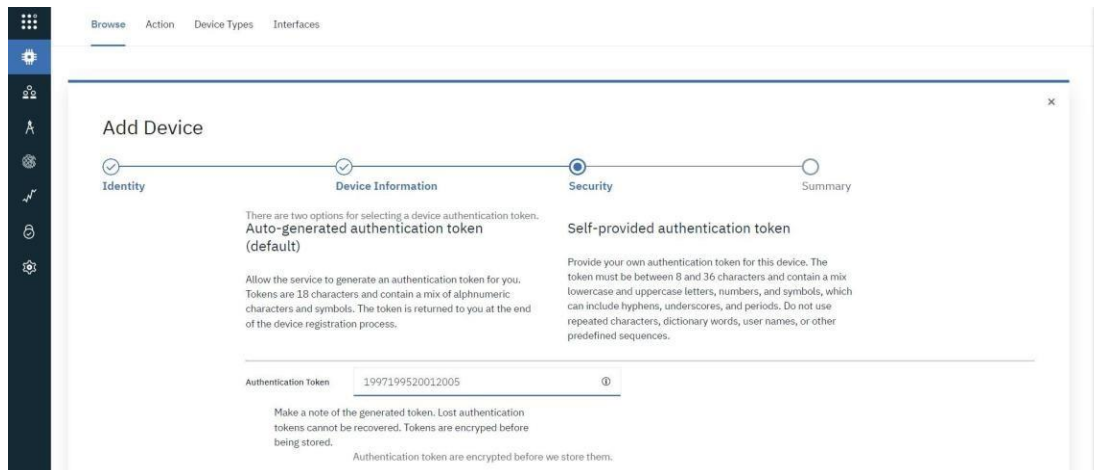
19. Click on the device tab and click on the add device button, then give the device type and device id and click next



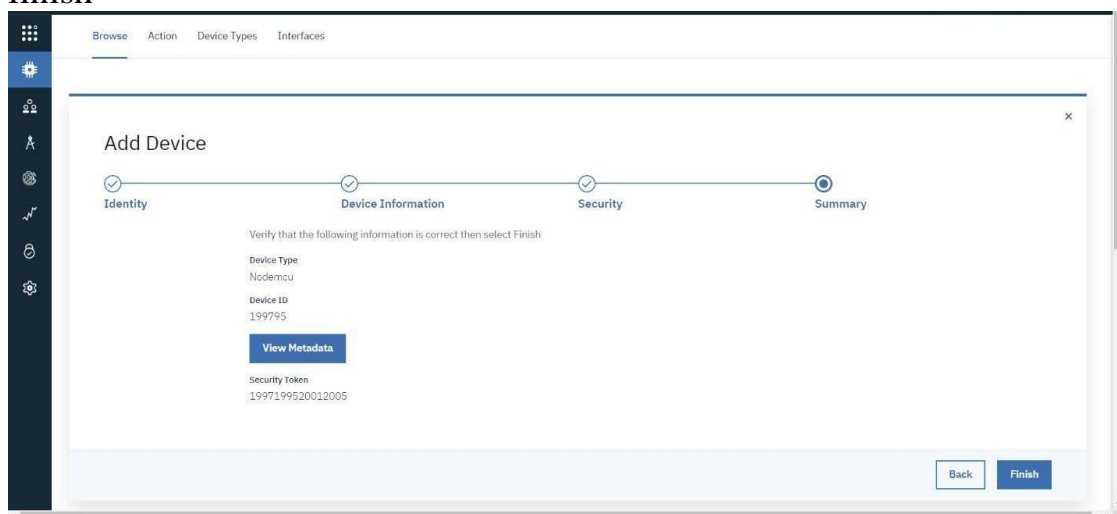
20. This page to enter extra details and of the hardware



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



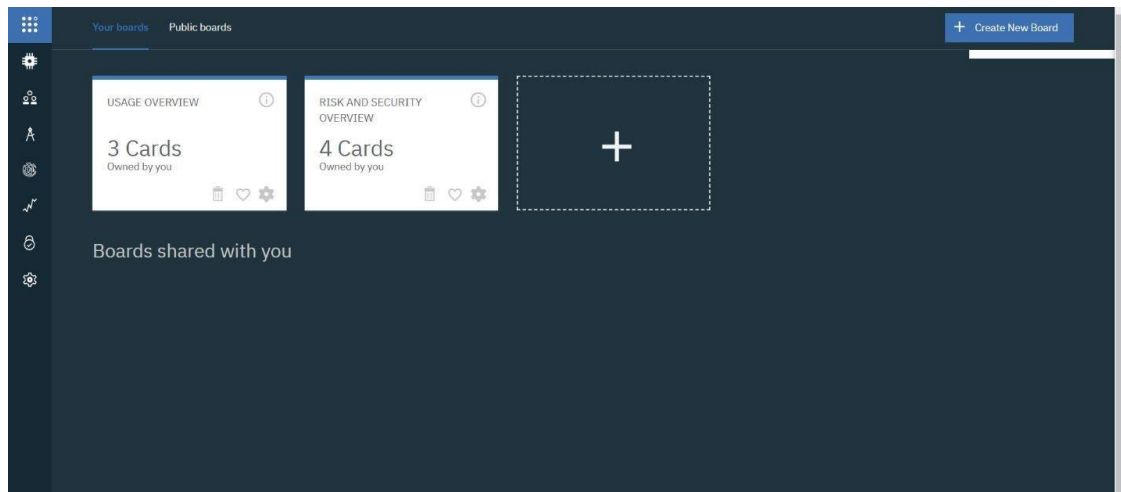
23. The device credentials will be displayed with all the details

24. 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.

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