

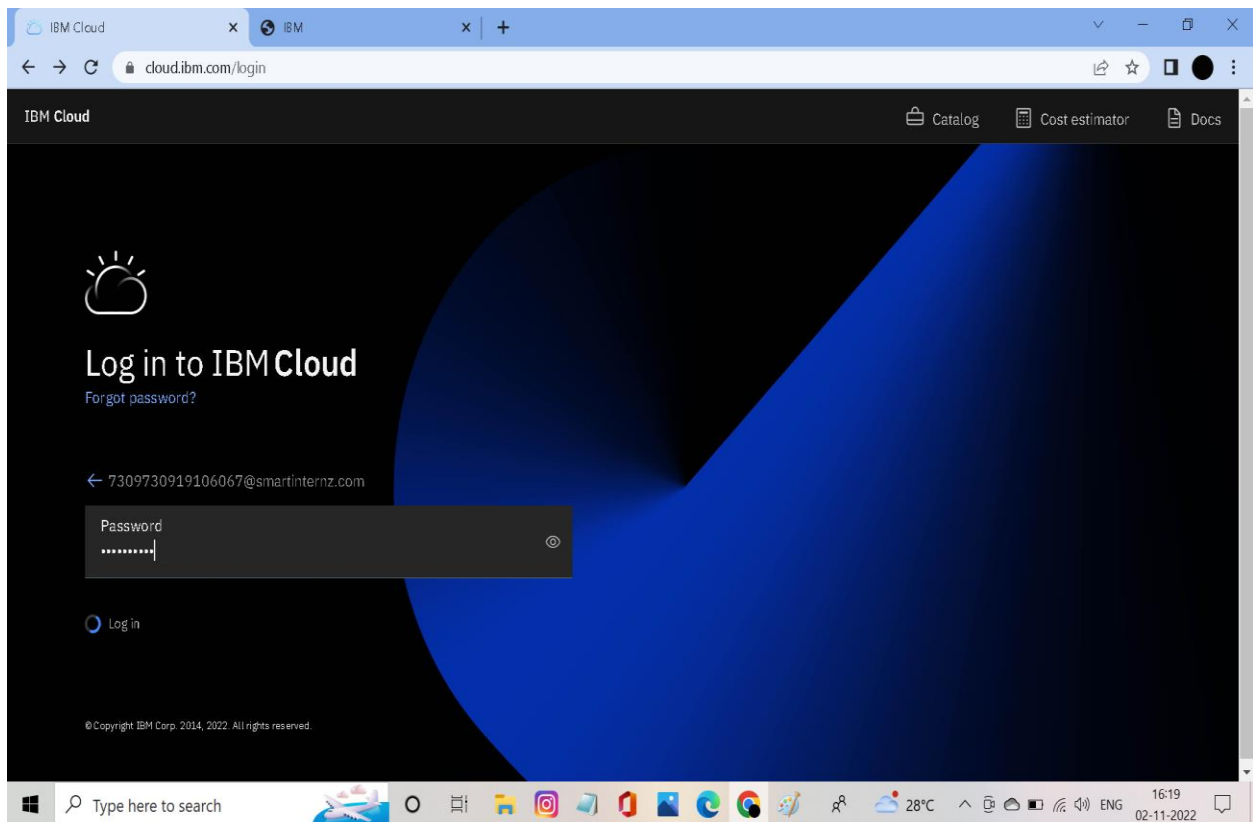
CREATE IBM WATSON IoT PLATFORM AND DEVICE

Aim:

To create IBM watson IoT platform and device.

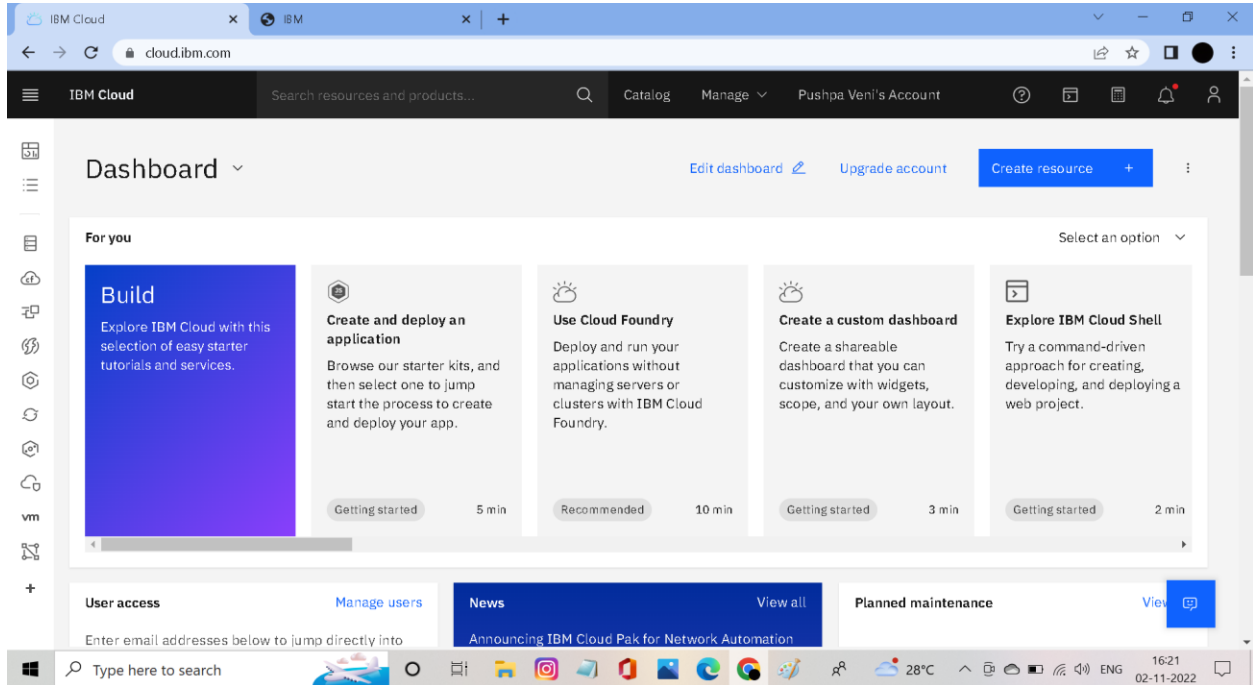
Step 1:

Firstly create an IBM account with IBM id password

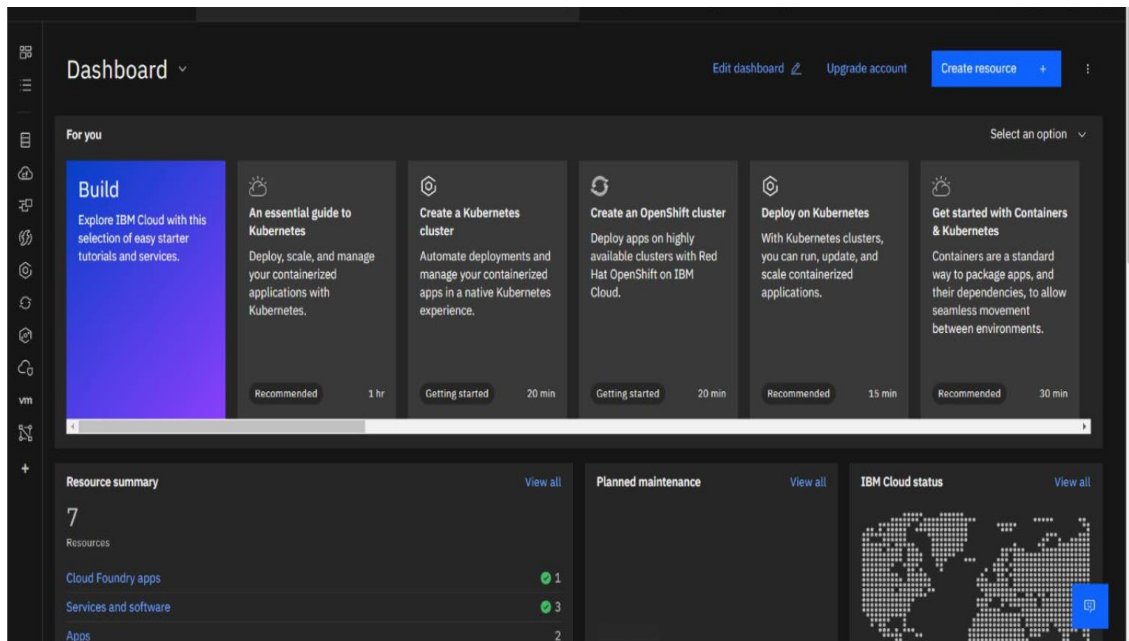


Step 2:

Home page of IBM cloud.



Step 3: Click on the catalog on the top.



4. Click on IoT in the category mention.

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

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-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

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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.

Internet of Things Platform

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 buildings 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

Tags: Examples: env:dev, version:1

Select a resource group: Default

Access management tags: Examples: access:dev, proj:version:1

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[Create](#)

[Add to estimate](#)

7. Internet of Things Platform Child safety will be created, where there are different options like manage, plan, and connection (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

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.

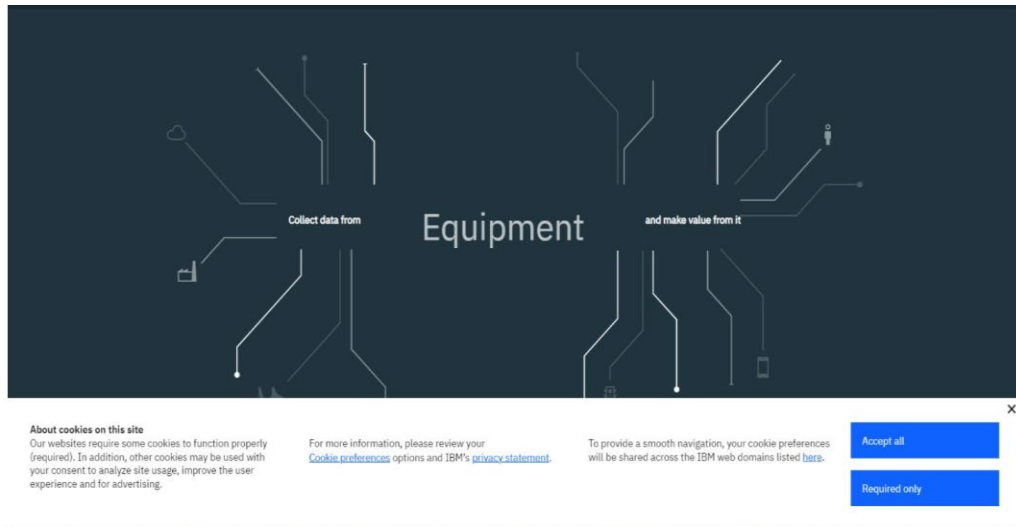
- Starts at \$500 per month

☐ Production

The Production service is a fully managed SaaS offering that enables you to manage and analyze enterprise IoT data.

- Includes IBM Service & Support

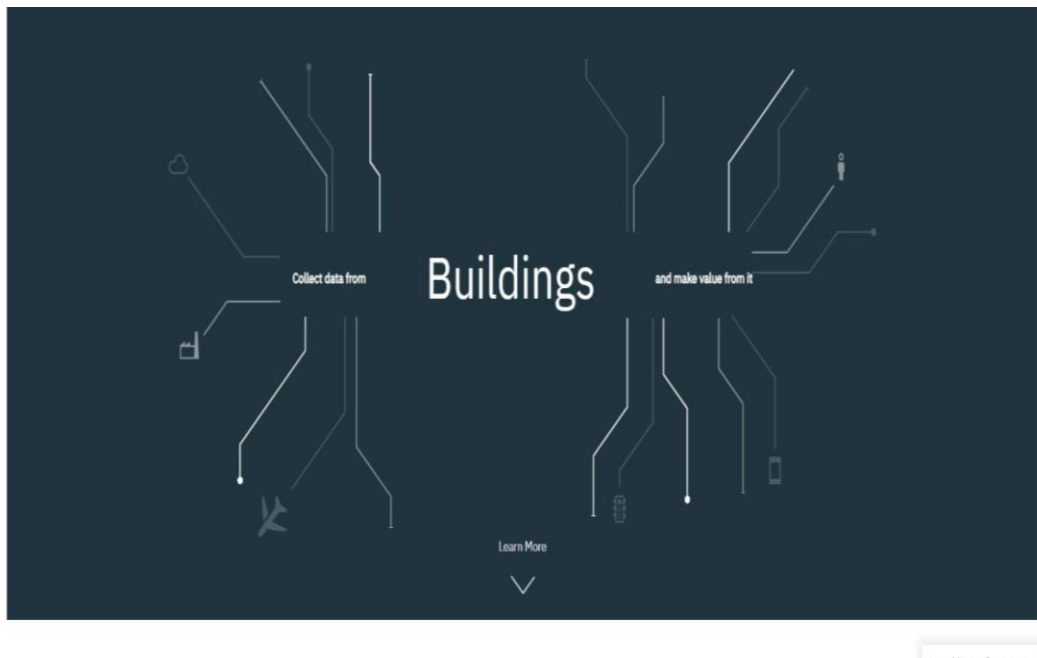
8. Clicking on the launch button in the manage tab, it will open to this.



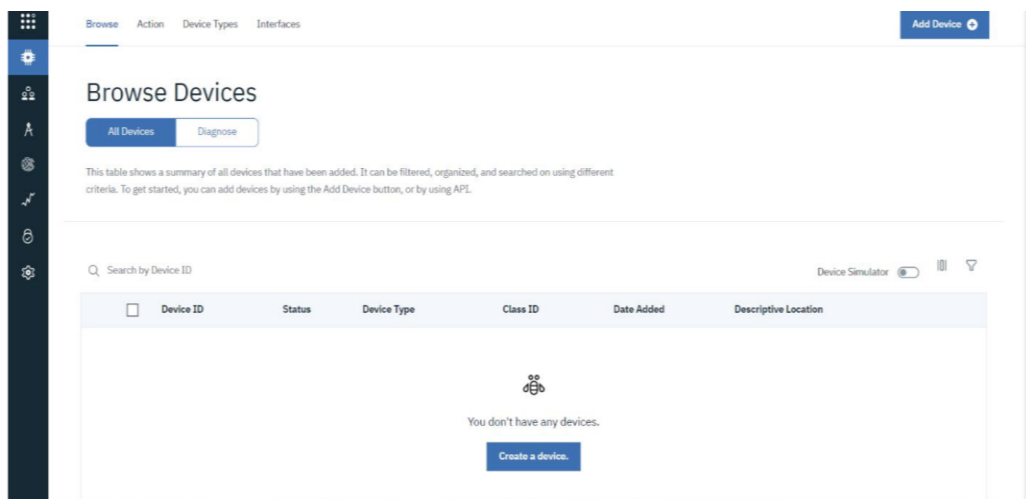
9. Enter the details to sign in to the Watson Cloud to create a device

The image shows a login form titled 'Log in to IBM'. The form is white and centered on a light gray background. It contains a text input field labeled 'IBMid' with a blue border and a small 'Forgot IBMid?' link to its right. Below the input field is a checkbox labeled 'Remember me' with a small information icon to its right. Below the checkbox is a blue button labeled 'Continue' with a right-pointing arrow. At the bottom of the form is a link that says 'Don't have an account? Create an IBMid'. Below the form is a link that says 'Need help? Contact the IBMid help desk'.

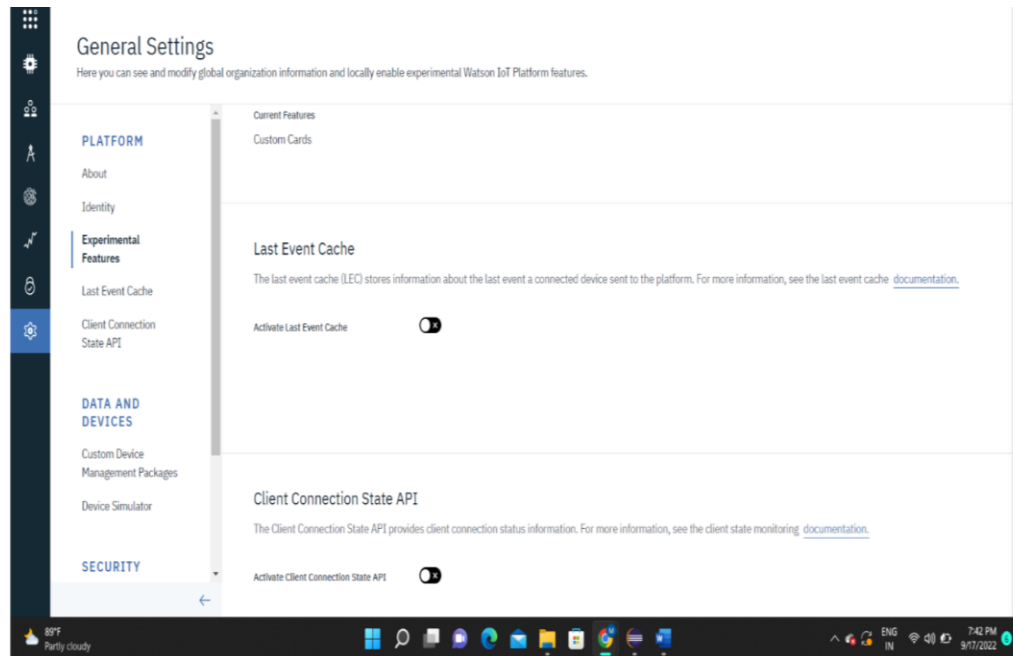
10. Once logged in the name will be displayed and it goes back to the first page.



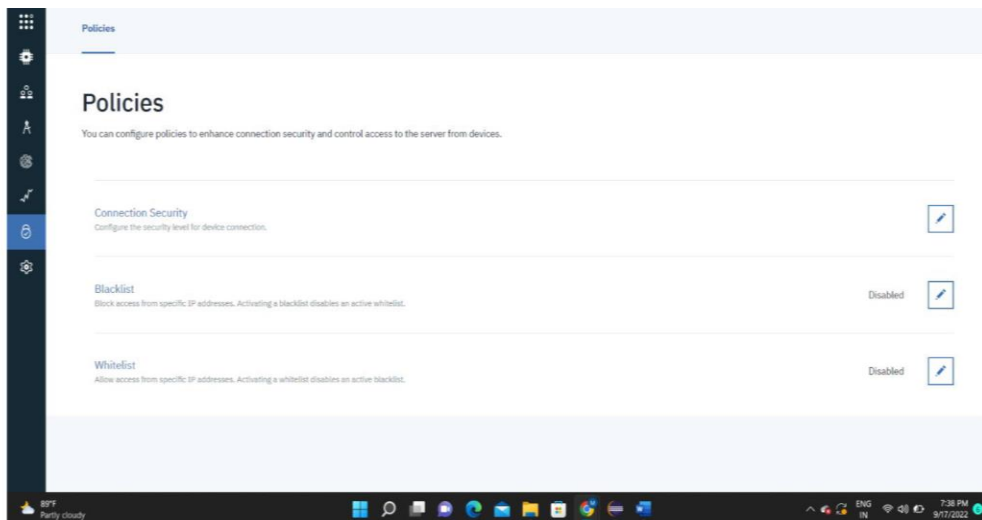
11. And again clicking on the launch button will open this tab, the device will help in the creation of the devices, the addition of devices, and the display of details of the devices.



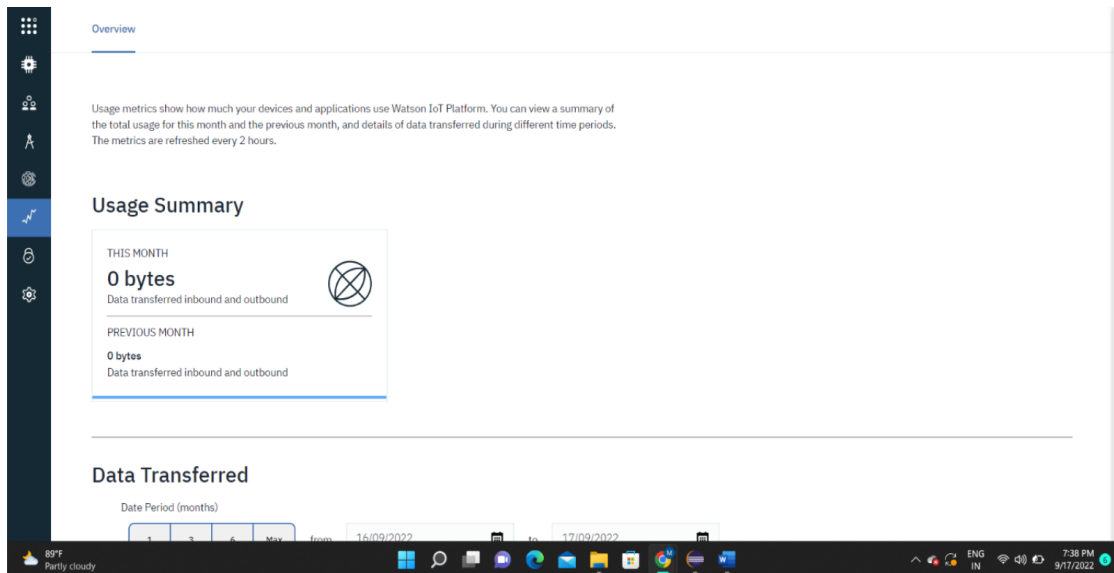
12. The setting tab is used to change the general setting if needed for the project



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



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



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

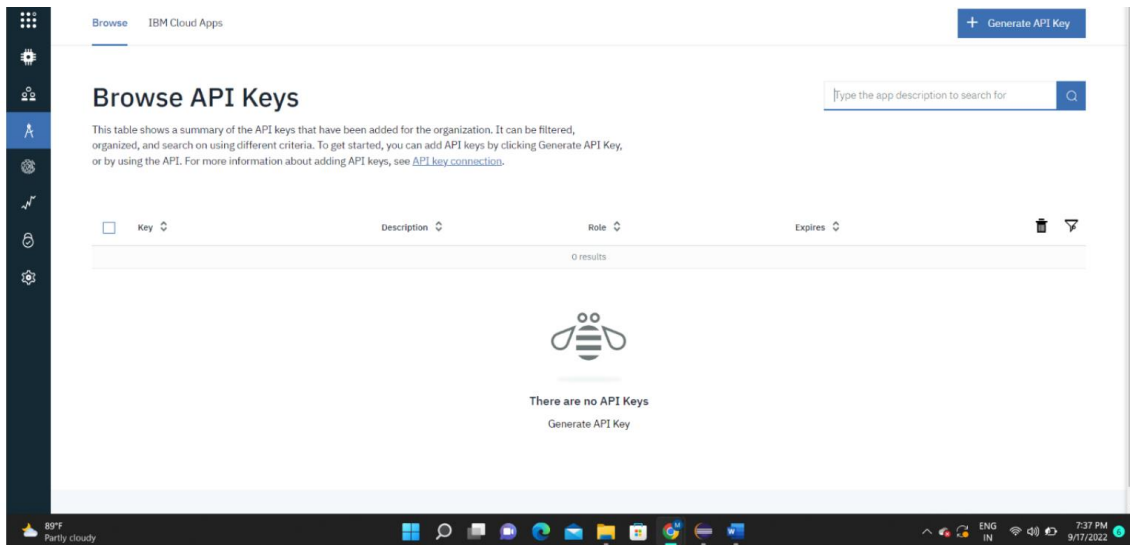
The screenshot shows the 'Browse Members' page. It includes a search bar with the placeholder 'Type the member email to search for'. Below the search bar, a table lists the members of the organization. The table has columns for Email Address, Name, Role, Added By, and Expires. A single member is listed with the email 'worldisfulofmeow@gmail.com' and the role 'Administrator'. The interface also includes a sidebar with navigation icons and a Windows taskbar at the bottom.

Browse Members

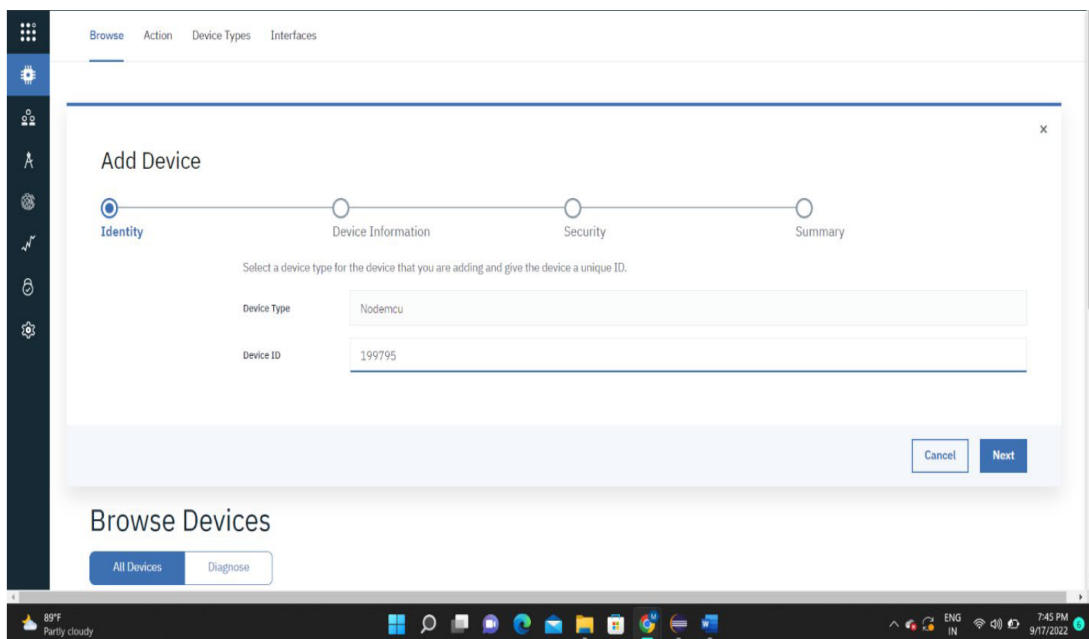
Type the member email to search for

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

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



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



18. 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 with four steps: Identity, Device Information (current), Security, and Summary. Below the progress bar, there is a note: 'You can modify the default device information and enter more information about the device for identification purposes.' The form contains several input fields for device details:

- Serial Number: Enter Serial Number
- Model: Enter Model
- Description: Enter Description
- Hardware Version: Enter Hardware Version
- Manufacturer: Enter Manufacturer
- Device Class: Enter Device Class
- Firmware Version: Enter Firmware Version
- Descriptive Location: Enter Descriptive Location

There is an 'Add Metadata' button with a plus icon. At the bottom right, there are 'Back' and 'Next' buttons. The Windows taskbar at the bottom shows the date as 9/17/2022 and the time as 9:46 PM.

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

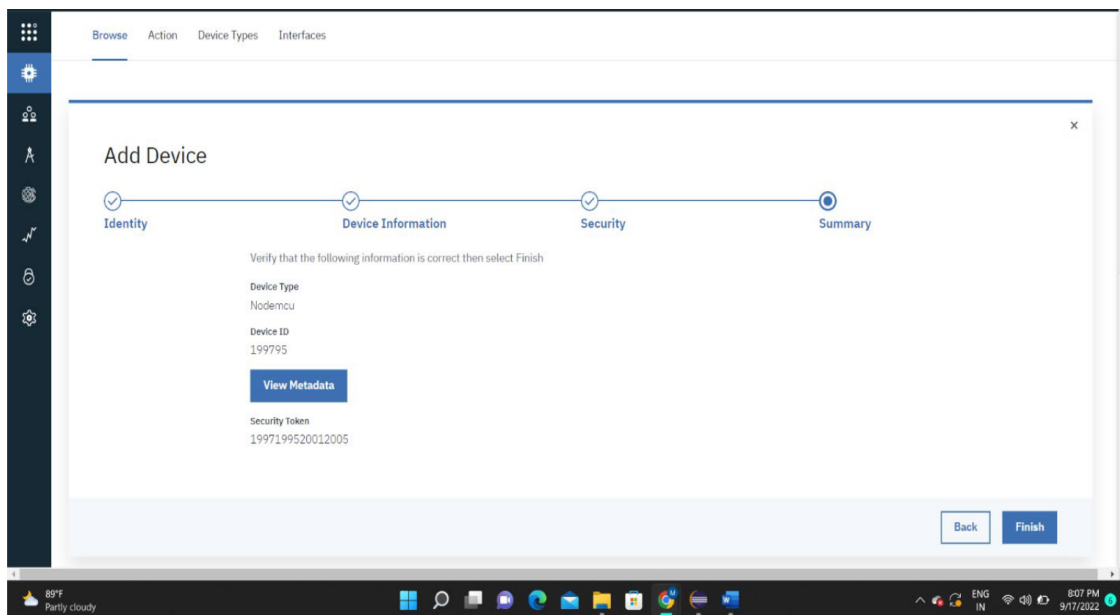
The screenshot shows the 'Add Device' form in a web application, now at the 'Security' step. The progress bar shows 'Identity', 'Device Information', and 'Security' (current), with 'Summary' next. The form presents two options for selecting a device authentication token:

- 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.
- 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.

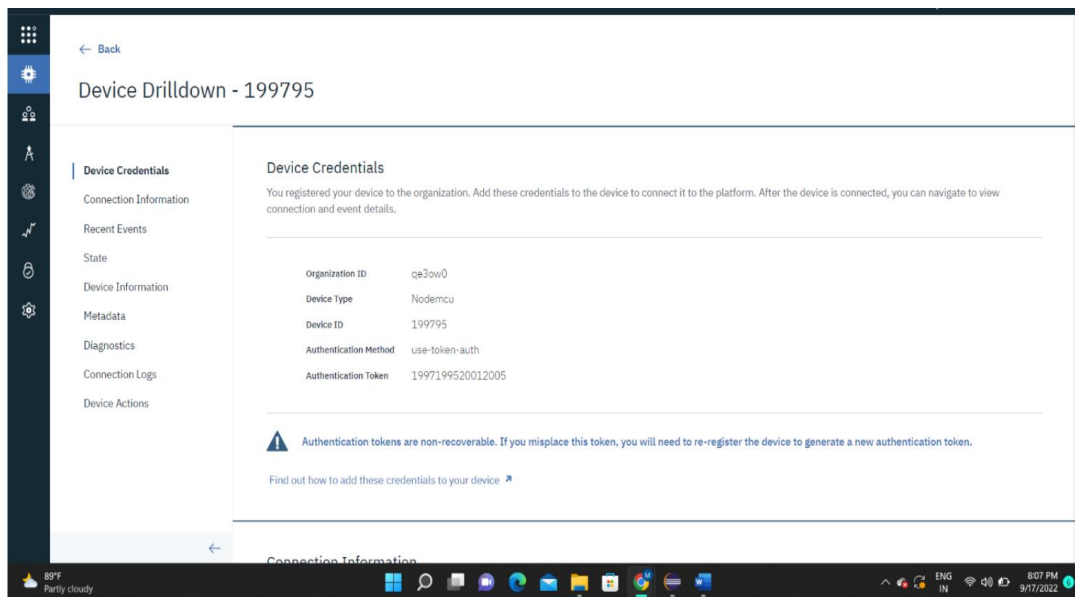
Under the 'Auto-generated authentication token' option, there is an input field for the 'Authentication Token' containing the value '1997199520012005'. Below this field, there is a warning: 'Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored.' and a note: 'Authentication token are encrypted before we store them.'

The Windows taskbar at the bottom shows the date as 9/17/2022 and the time as 8:05 PM.

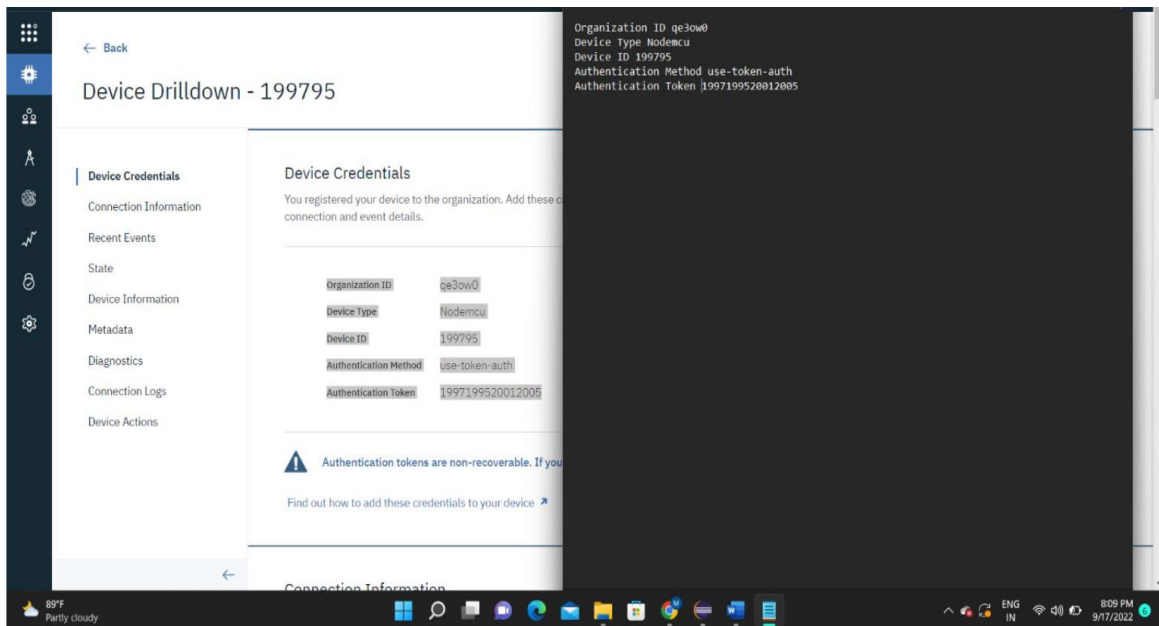
20. Clicking on next it goes to the summary of the device then click finish



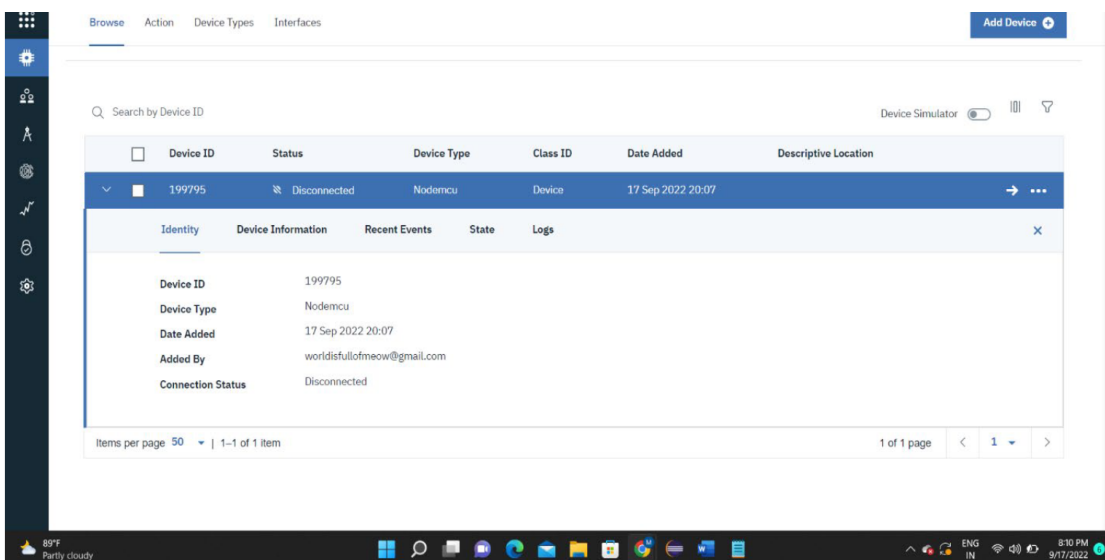
21. The device credentials will be displayed with all the details



22.Safe the details of the device as the authentication tokens are nonrecoverable and if misplaced.

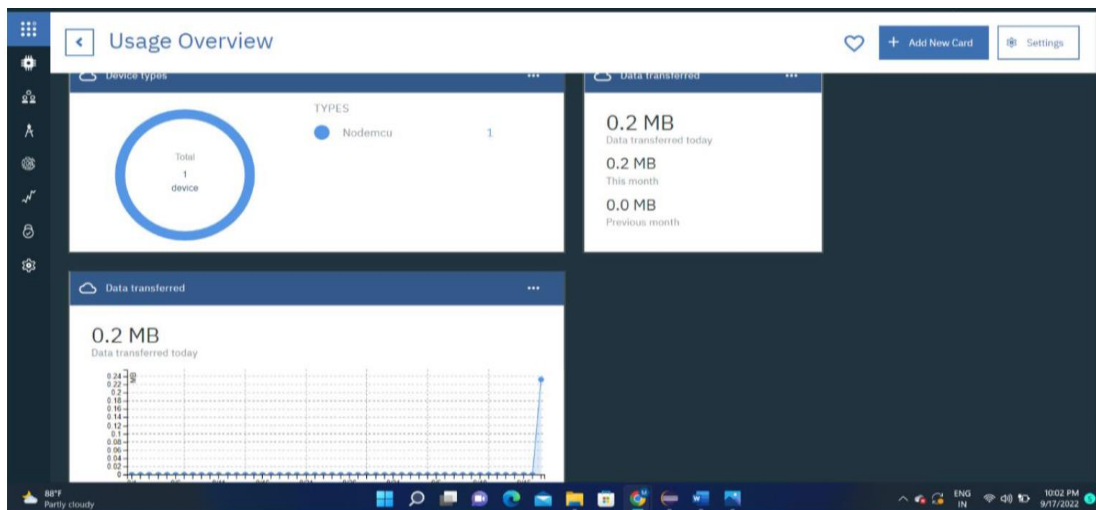
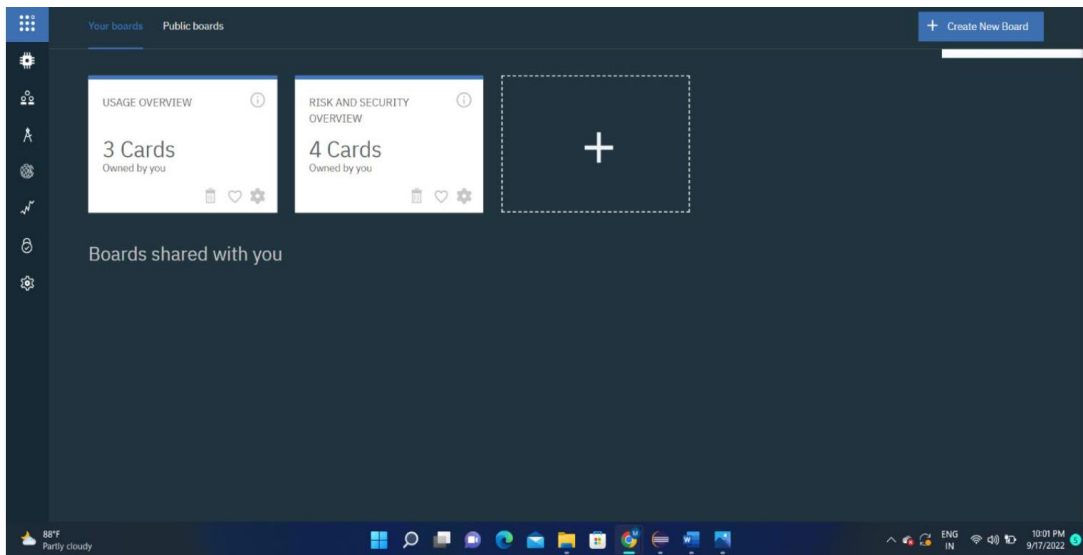


23.Clicking on the device tab we can now see the added device. Clicking on it will display the other details. It has different tabs like Identity, Device Information, State and login



In a similar way, we can create n number of devices with a 50 per page limit as per the requirement of our project.

24.The Boards will display card for the project.



RESULT:

An IBM Watson cloud for IoT and a device is created