

## Create And Configure IBM Cloud Service

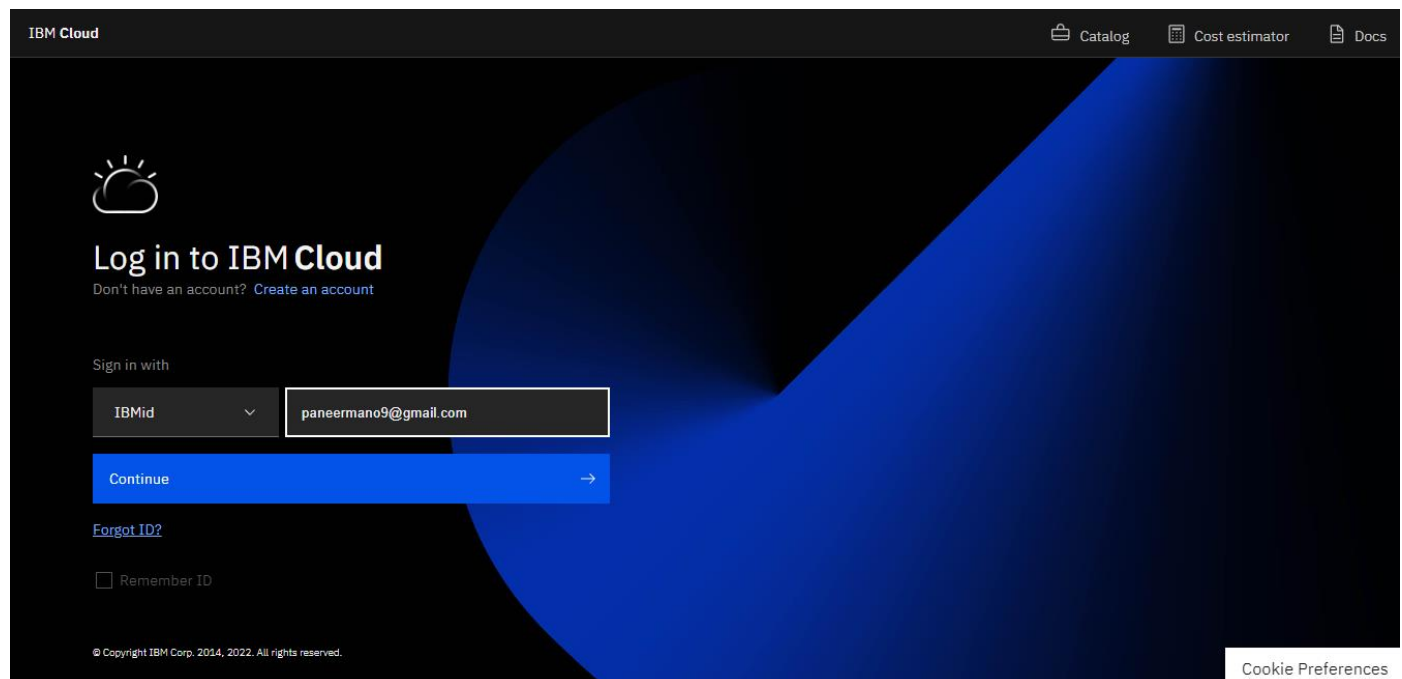
### Create IBM Watson IoT Platform And Device

<i>Date</i>	<i>9 November 2022</i>
<i>Team ID</i>	<i>PNT2022TMID52173</i>
<i>Project Name</i>	<i>IoT Based Safety Gadget For Child Safety Monitoring &amp; Notification</i>
<i>Maximum Marks</i>	<i>4 Marks</i>

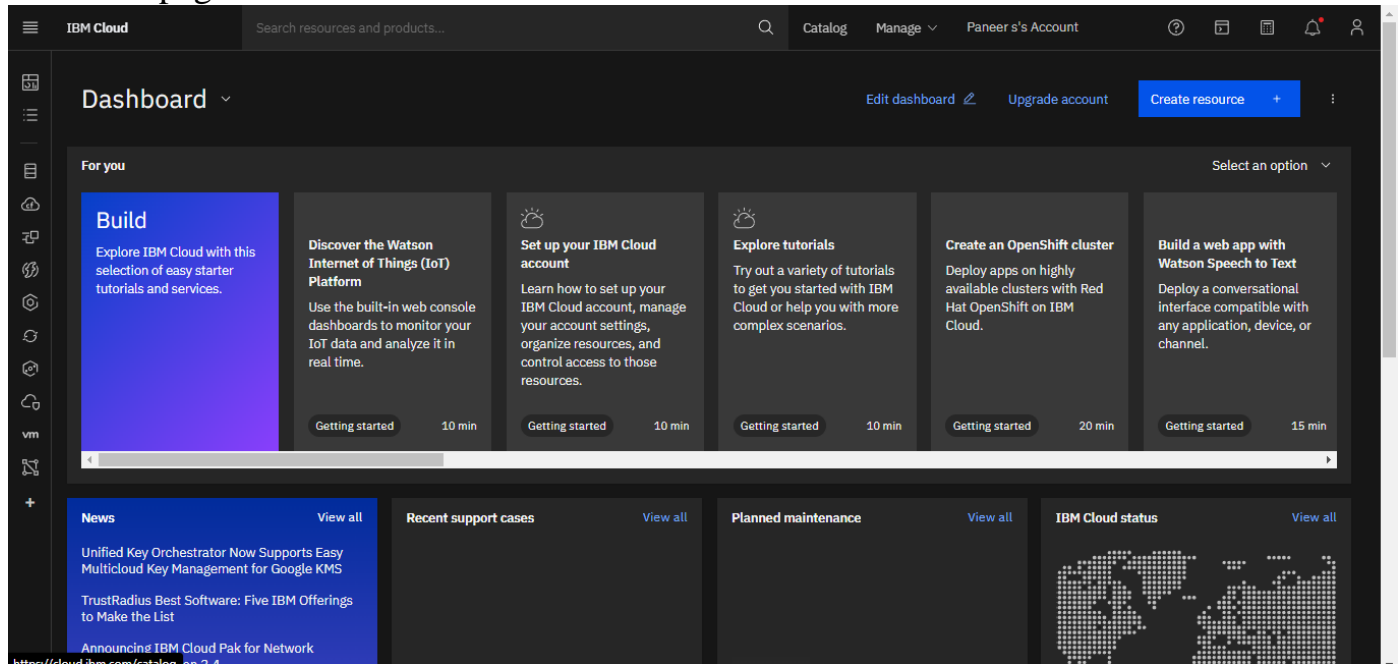
**TEAM ID** : **PNT2022TMID52173**  
**TEAM LEADER** : **M.PREMKUMAR**  
**TEAM MEMBER 1** : **M.PANEERSELVAM**  
**TEAM MEMBER 2** : **M.JIJO**  
**TEAM MEMBER 3** : **M.ASWIN**

## STEPS

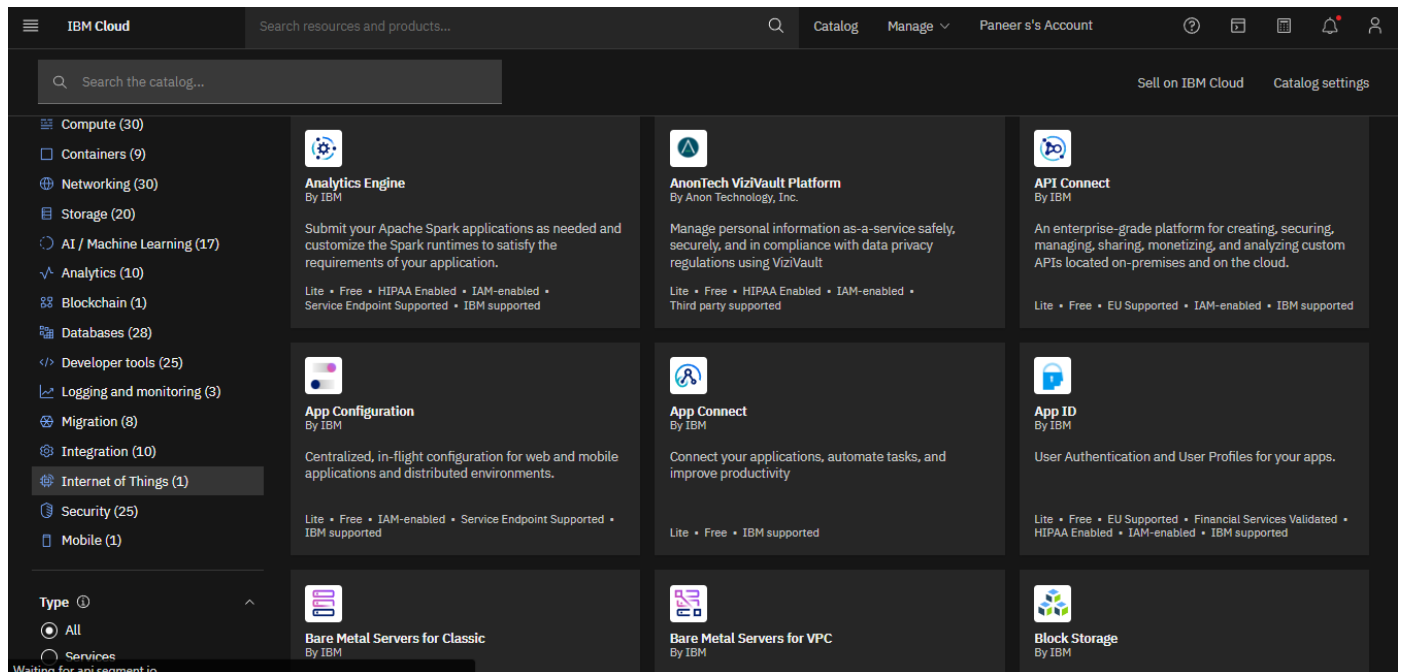
1. Firstly create an IBM cloud account with IBMid and password



## 2. Home page of IBM cloud



## 3. Click on the catalog on the top



## 4. Click on IoT in the category mentioned

IBM Cloud

Search resources and products...

Catalog

Manage

Paneer s's Account

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

Last updated

08/15/2022

Category

Internet of Things

Compliance

IAM-enabled

Location

Frankfurt

London

Dallas

Washington DC

Related links

Docs

Terms

Select a location

Frankfurt (eu-de)

Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

Plan	Features	Pricing
Lite	<p>Includes up to 500 registered devices, and a maximum of 200 MB of each data metric</p> <ul style="list-style-type: none"> <li>Maximum of 500 registered devices</li> <li>Maximum of 500 application bindings</li> <li>Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed</li> </ul> <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>	Free

Summary

Internet of Things Platform

Free

Location: Frankfurt

Plan: Lite

Service name: Internet of Things Platform-sv

Resource group: Default

☐ 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

IBM Cloud

Search resources and products...

Catalog

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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: Frankfurt

Plan: Lite

Service name: Internet of Things Platform-Child\_Safety

Resource group: Default

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[Terms](#)

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 it agreements and then click on create

IBM Cloud Search resources and products... Catalog Manage Paneer s's Account

Catalog / 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

Last updated 08/15/2022

Category Internet of Things

Compliance IAM-enabled

Location Frankfurt London Dallas Washington DC

Related links Docs Terms

Select a location

Frankfurt (eu-de)

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.

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Create

Add to estimate

IBM Cloud Search resources and products... Catalog Manage Paneer s's Account

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	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

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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)

The screenshot shows the 'Manage' tab of the IBM Cloud IoT Platform. The left sidebar has 'Manage', 'Plan', and 'Connections' options. The main content area features a 'Let's get started with IBM Watson IoT Platform' section with a 'Launch' button. Below this is a 'Ready for the next level?' section with three stages: 'Lite' (checked), 'Non-Production', and 'Production'. Each stage has a brief description and a 'Free' or 'Starts at \$500 per month' label.

IBM Cloud

Search resources and products...

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 SenML & Support

The screenshot shows the 'Plan' tab of the IBM Cloud IoT Platform. The left sidebar has 'Manage', 'Plan', and 'Connections' options. The main content area displays the 'Current plan' as 'Lite' with its features. To the right, 'Current usage' is shown as 'N/A'. Below this is a 'Change pricing plan' section with a table showing the 'Lite' plan and its pricing.

IBM Cloud

Search resources and products...

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

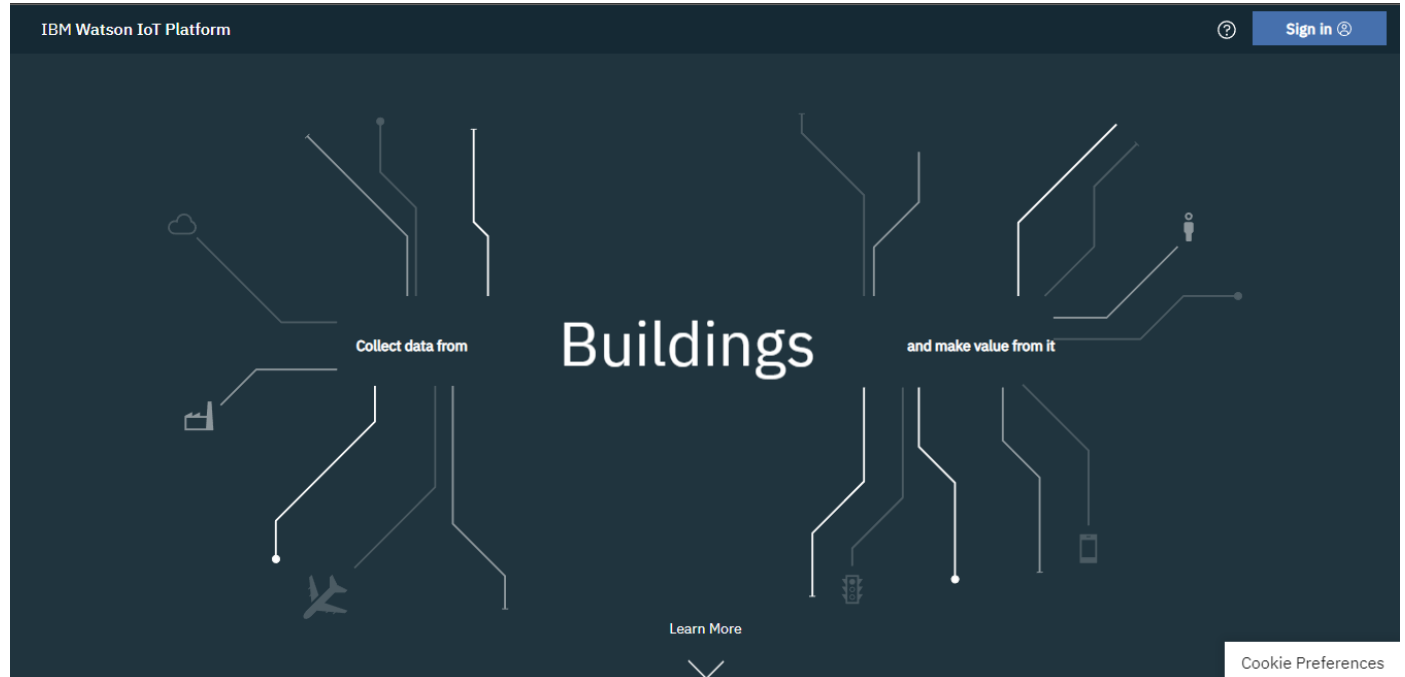
Lite plan services are deleted after 30 days of inactivity.

Change pricing plan

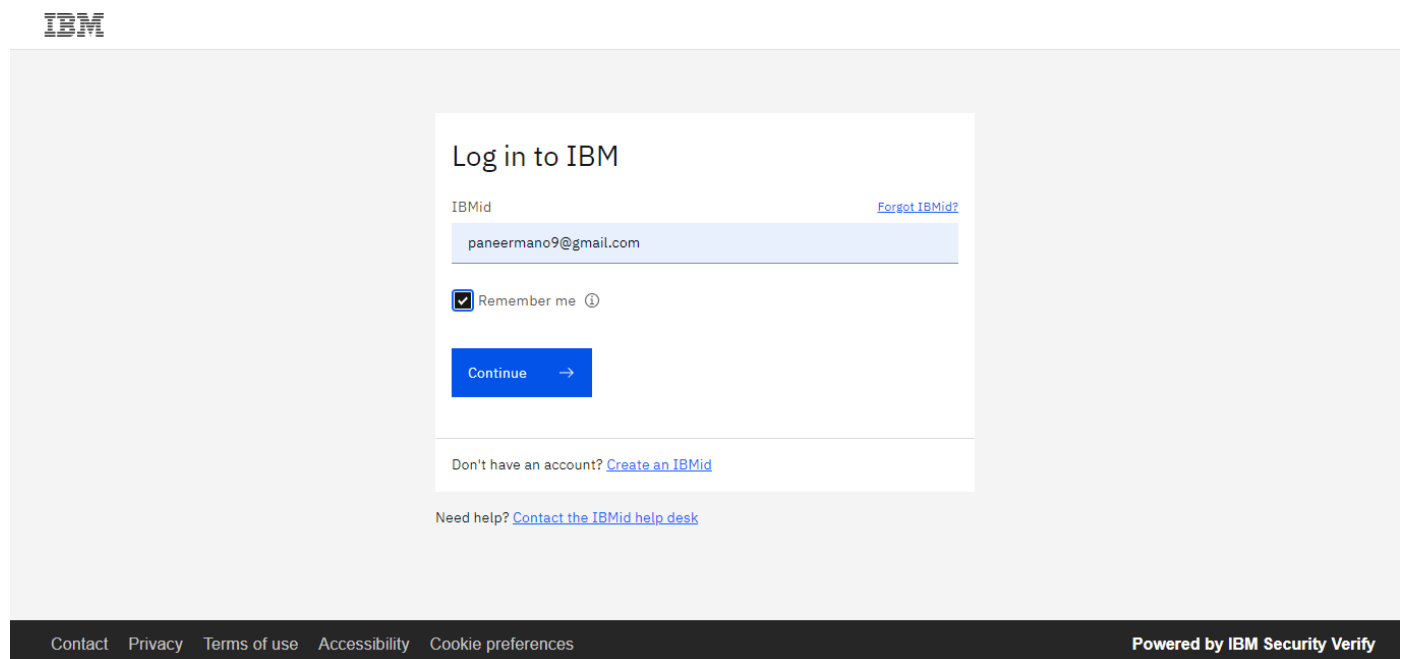
Plan	Features	Pricing
Lite	Includes up to 500 registered devices, and a maximum of 200 MB of each data metric Maximum of 500 registered devices Maximum of 500 application bindings Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed	Free <input checked="" type="checkbox"/>

<https://cloud.ibm.com/services/iotf-service/cn%3Av1%3Abluemix%3Apublic%3Aiotf-service%3Aeu-de%3Aa%2F4208d36-c689c4a4393f5a21c6852d489%3Ad1614376-6258-45ba-9621-332b6b90dc18%3A%3A?panel=plan&new=true>

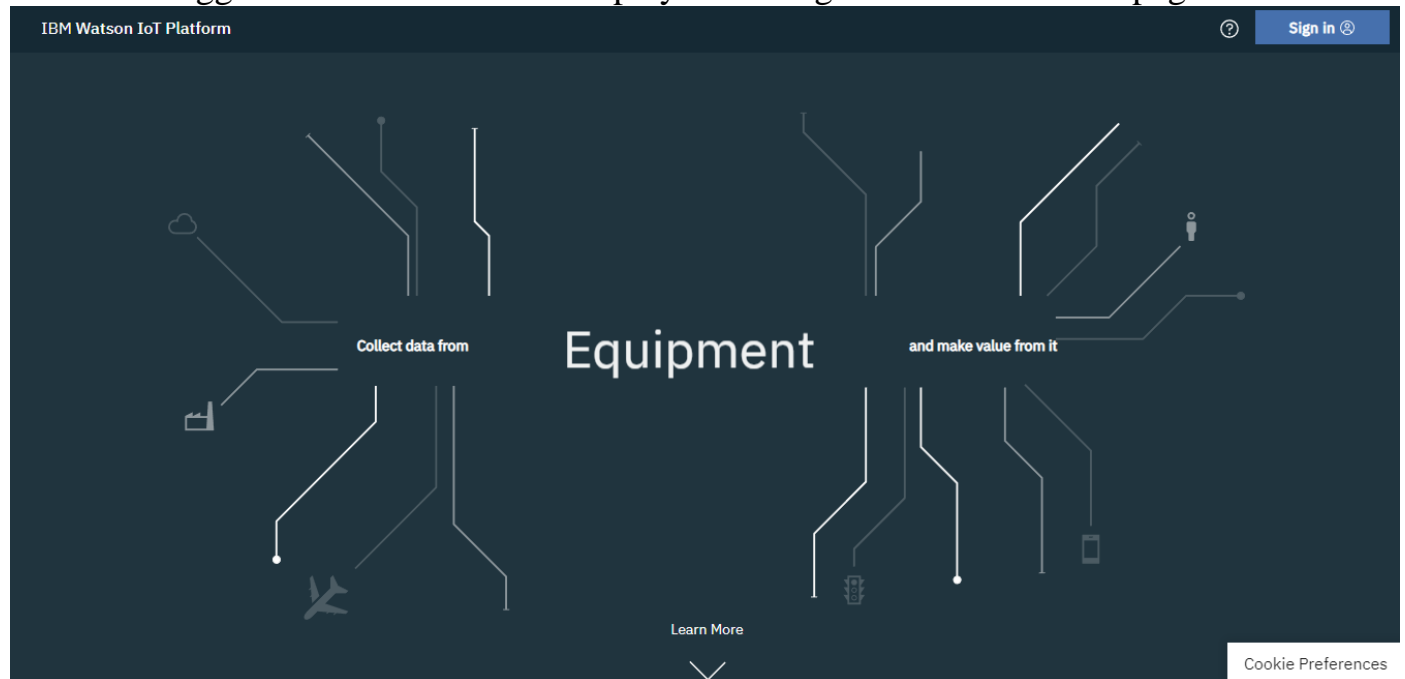
8. Clicking on the launch button in the manage tab, it will open to this



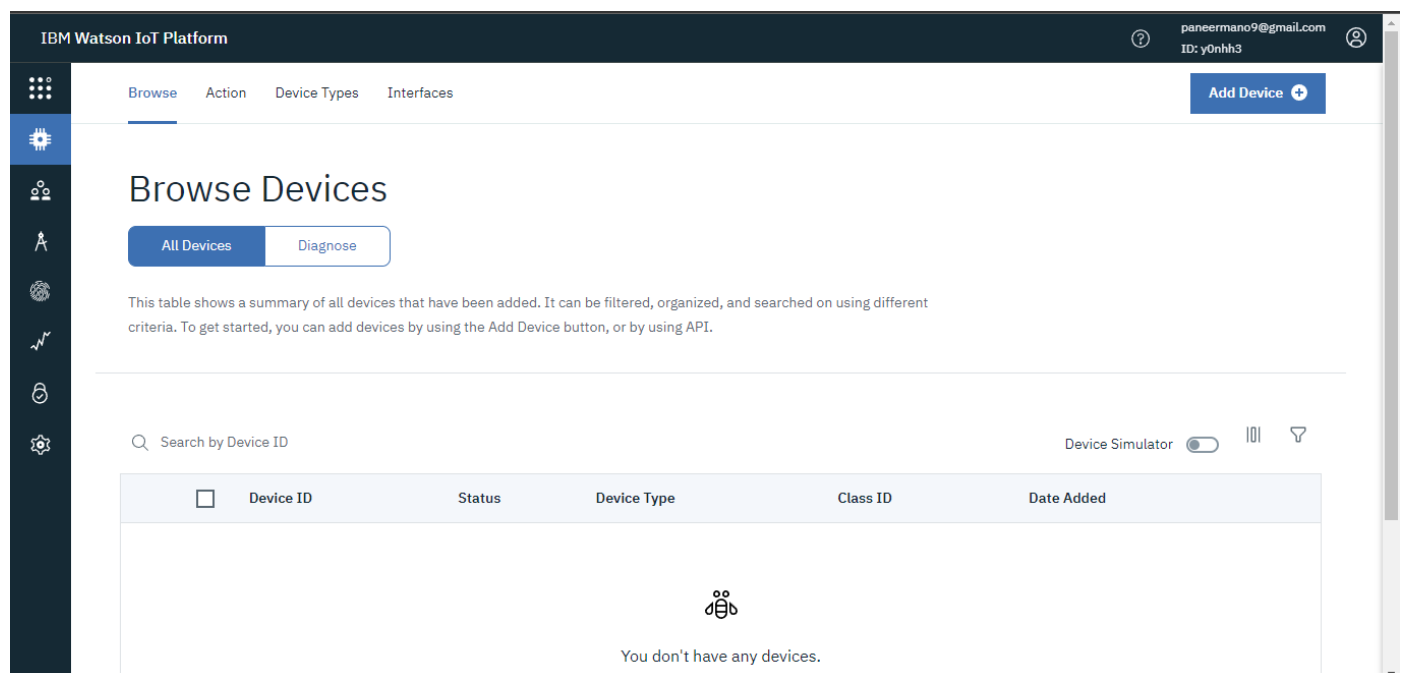
9. Enter the details to sign in to the Watson Cloud to create a device



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 member tab is add the teams members to work in the platform

IBM Watson IoT Platform

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ID: kswybe

Browse

+ Add Members

This table shows a summary of the members of the organization. It can be filtered, organized, and search on using different criteria. To get started, you can add members by clicking Add Members, or by using the API. For more information about members, see [Managing user access](#).

<input type="checkbox"/>	Email Address ↕	Name ↕	Role ↕	Added By ↕	Expires ↕	
4 results						
<input type="checkbox"/>	paneermiano9@gmail.com	Premkumar	Administrator	-	-	⋮
<input type="checkbox"/>	m24974419@gmail.com	Aswin	Reader	Premkumar	Dec 9, 2022	⋮ <input checked="" type="checkbox"/>
<input type="checkbox"/>	mjijo24062001@gmail.com	Jijo	Reader	Premkumar	Dec 9, 2022	⋮ <input checked="" type="checkbox"/>
<input type="checkbox"/>	premm4574@gmail.com	Paneer selvam	Reader	Premkumar	Dec 9, 2022	⋮ <input checked="" type="checkbox"/>

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

IBM Watson IoT Platform


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Browse API Keys

Type the app description to search for

This table shows a summary of the API keys that have been added for the organization. It can be filtered, organized, and search on using different criteria. To get started, you can add API keys by clicking Generate API Key, or by using the API. For more information about adding API keys, see [API key connection](#).

<input type="checkbox"/>	Key ↕	Description ↕	Role ↕	Expires ↕	
0 results					



There are no API Keys

[Generate API Key](#)



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

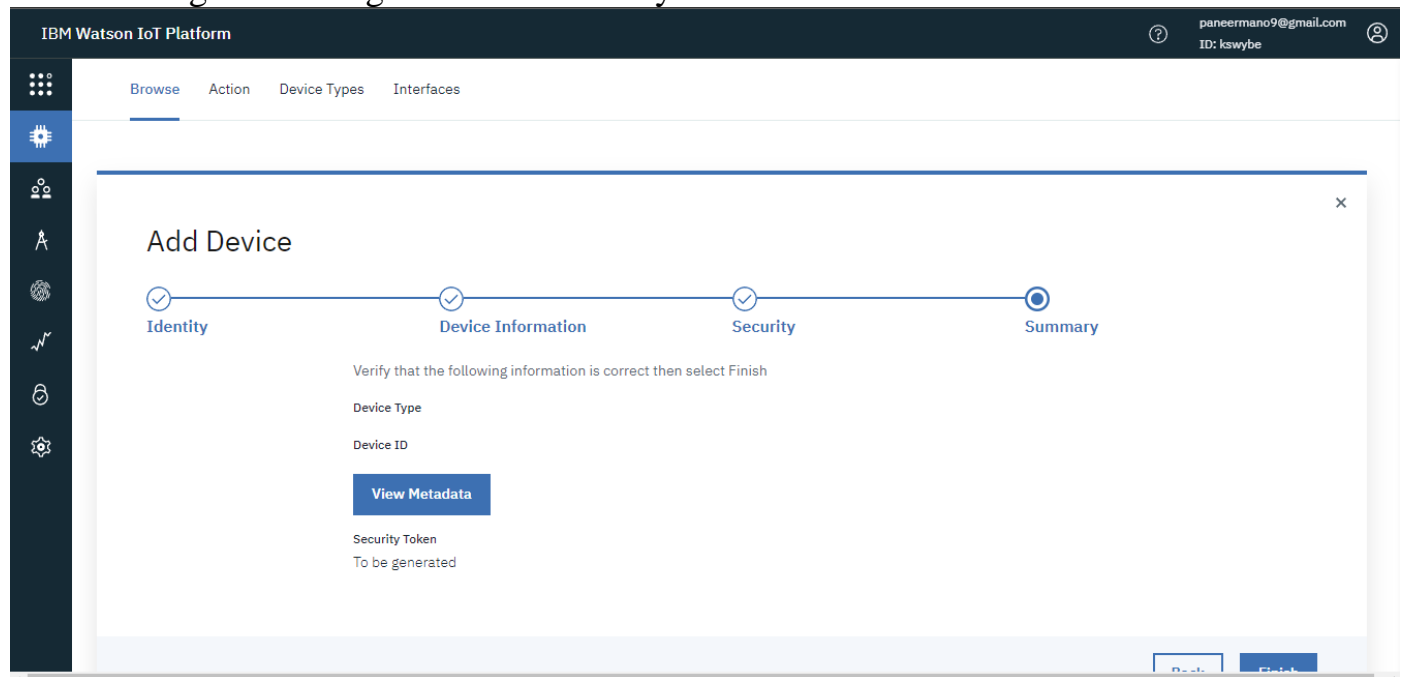
The screenshot shows the 'Add Device' dialog in the IBM Watson IoT Platform. The dialog has a progress bar with four steps: Identity (selected), Device Information, Security, and Summary. Below the progress bar, the text reads: 'Select a device type for the device that you are adding and give the device a unique ID.' There are two input fields: 'Device Type' with a placeholder 'Select or create a device type...' and 'Device ID' with a placeholder 'Enter Device ID'. At the bottom right, there are 'Cancel' and 'Next' buttons.

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

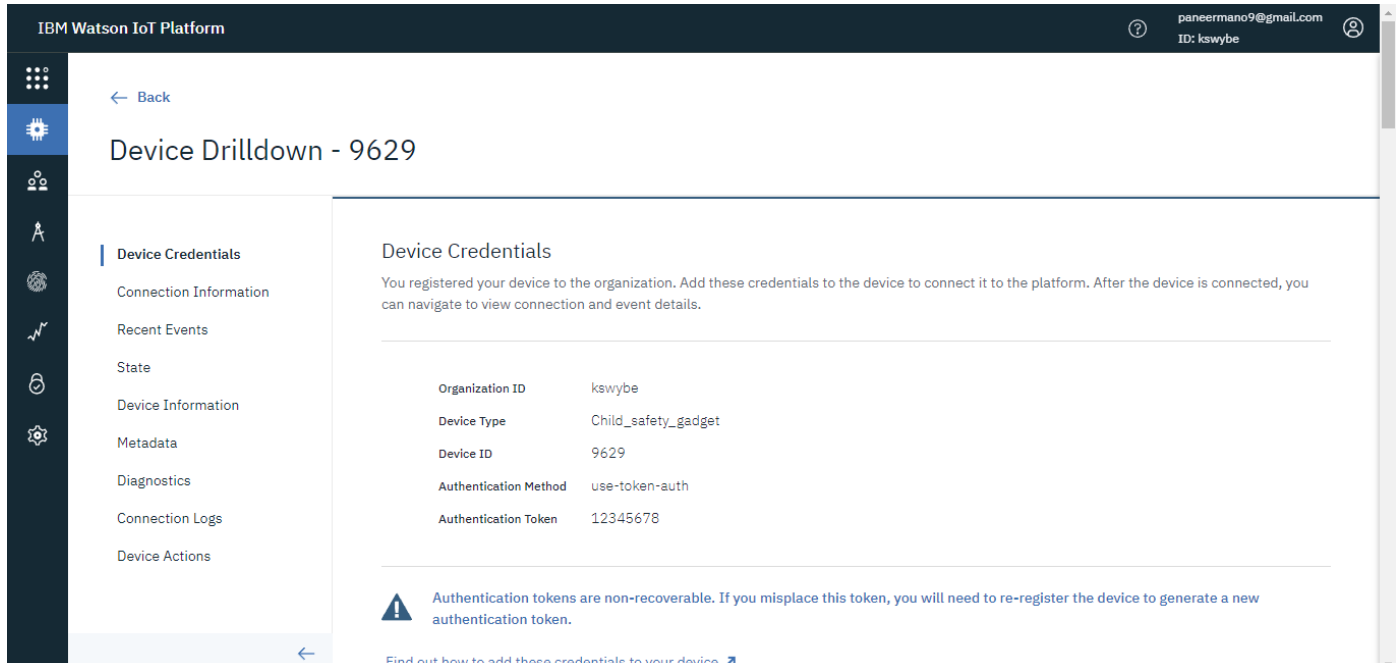
The screenshot shows the 'Add Device' dialog in the IBM Watson IoT Platform, now at the 'Device Information' step. The progress bar shows 'Identity' as completed and 'Device Information' as the current step. The text reads: 'You can modify the default device information and enter more information about the device for identification purposes.' There are two columns of input fields. The left column contains: 'Serial Number' (placeholder: 'Enter Serial Number'), 'Model' (placeholder: 'Enter Model'), 'Description' (placeholder: 'Enter Description'), and 'Hardware Version' (placeholder: 'Enter Hardware Version'). The right column contains: 'Manufacturer' (placeholder: 'Enter Manufacturer'), 'Device Class' (placeholder: 'Enter Device Class'), 'Firmware Version' (placeholder: 'Enter Firmware Version'), and 'Descriptive Location' (placeholder: 'Enter Descriptive Location'). At the bottom left, there is an 'Add Metadata' button with a plus icon.

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

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



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



Safe the details of the device as the authentication tokens are non-recoverable and if misplaced then we have to create a new one.

19. Clicking on the device tab we can now see the added device. Clicking on it will display the other details.

IBM Watson IoT Platform

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ID: kswybe

Browse Action Device Types Interfaces

Add Device +

## Browse Devices

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device Simulator

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added
> <input type="checkbox"/>	9629	Disconnected	Child_safety_gadget	Device	Nov 9, 2022 3:06 PM

Items per page 50 | 1-1 of 1 item

1 of 1 page

It has different tabs like Identity, Device Information, State and login.

IBM Watson IoT Platform

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Browse Action Device Types Interfaces

Add Device +

## Browse Devices

Search by Device ID

Device Simulator

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added
▼ <input checked="" type="checkbox"/>	9629	Disconnected	Child_safety_gadget	Device	Nov 9, 2022 3:06 PM

Items per page 50 | 1-1 of 1 item

1 of 1 page

Identity Device Information Recent Events State Logs

Device ID 9629

Device Type Child\_safety\_gadget

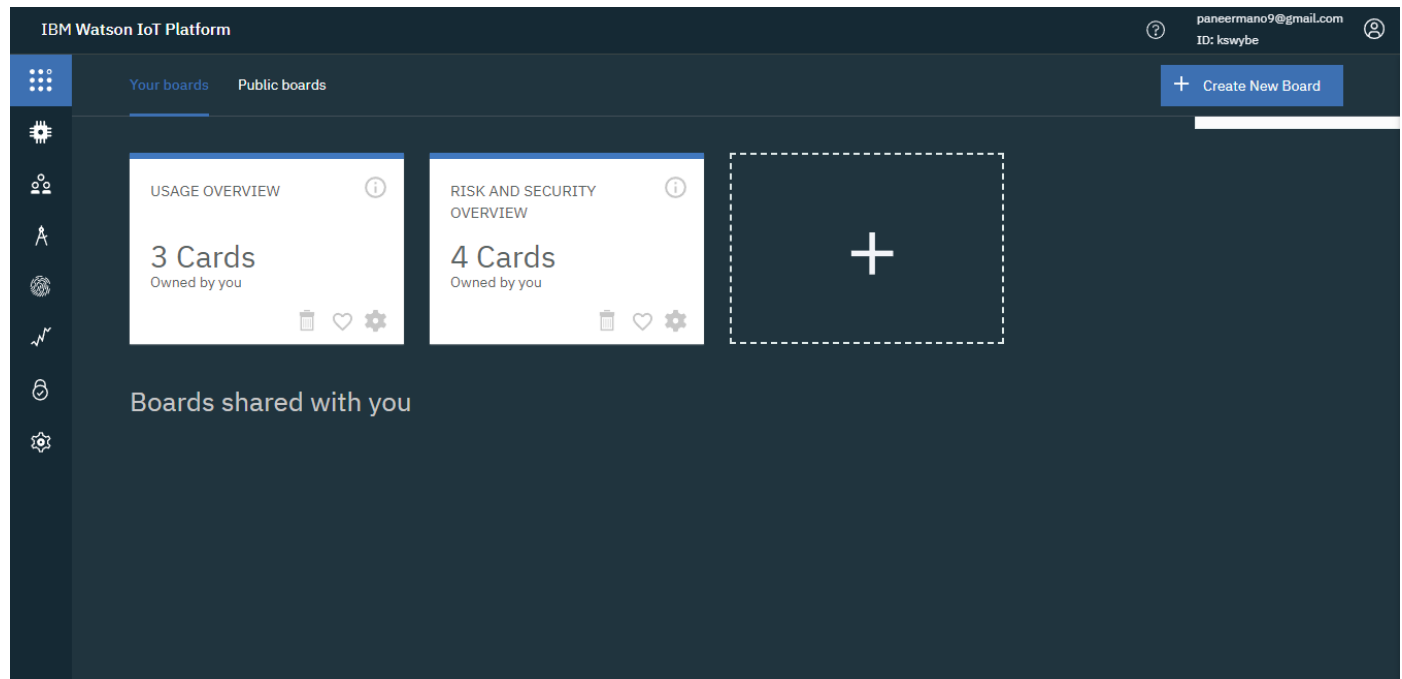
Date Added Nov 9, 2022 3:06 PM

Added By paneermmano9@gmail.com

Connection Status Disconnected

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

20.The Boards will display card for the project.



## **RESULT:**

An IBM Watson cloud for IoT and a device is created

***TEAM ID: PNT2022TMID52173,***

***TEAM LEADER : M.PREMKUMAR,***

***TEAM MEMBER 1 : M.PANEERSELVAM***

***TEAM MEMBER 2 : M.JIJO***

***TEAM MEMBER 3 : M.ASWIN***