

TEAM ID	PNT2022TMID33319
PROJECT NAME	IoT Based Safety Gadget for Child Safety Monitoring & Notification

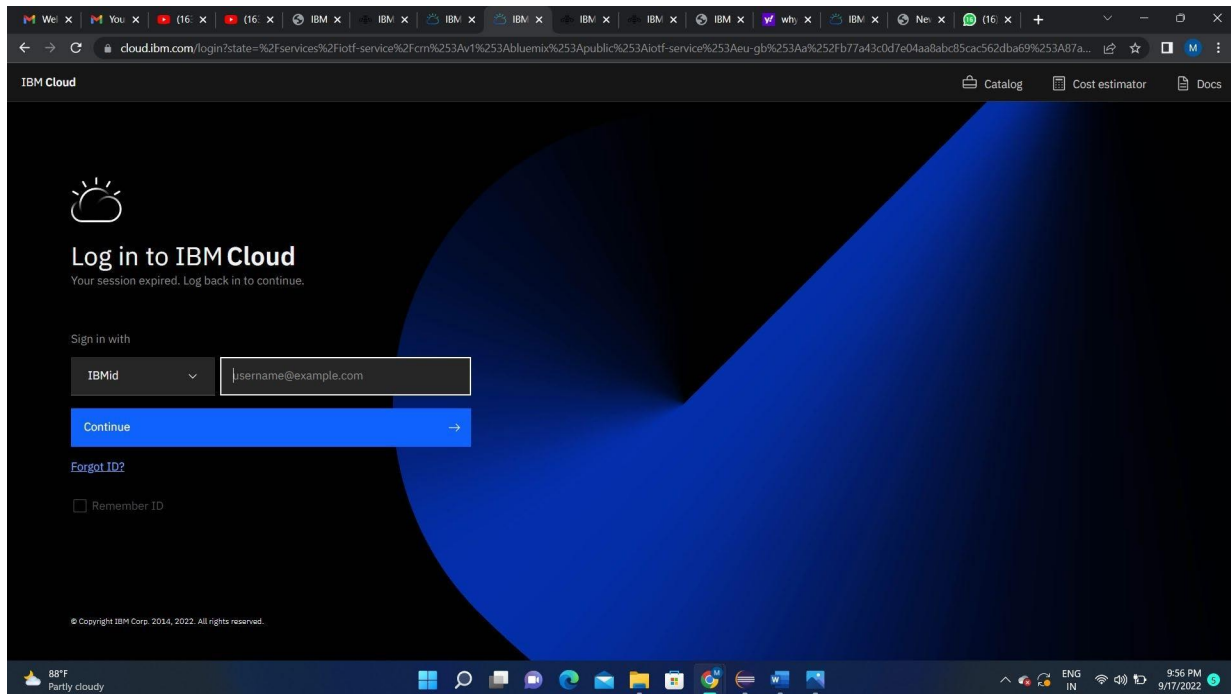
CREATE IBM WATSON IOT PLATFORM AND DEVICE

AIM:

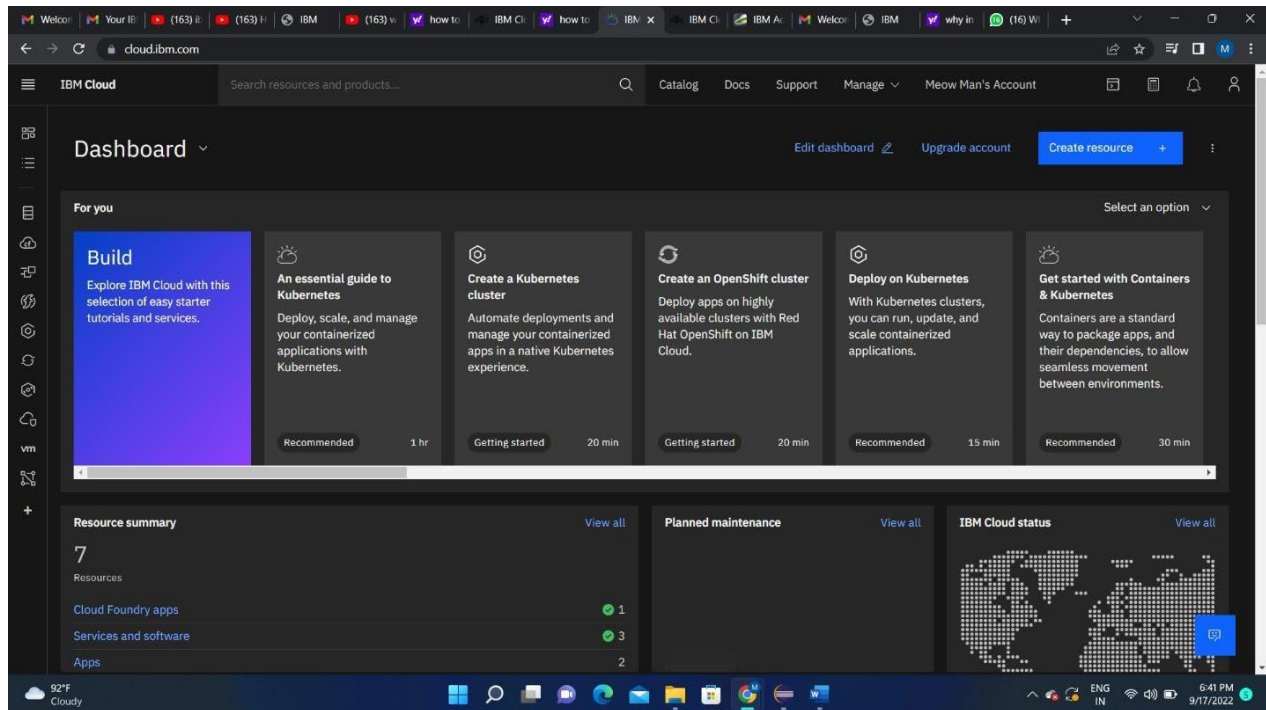
To create the IBM Watson IoT platform and device

STEPS:

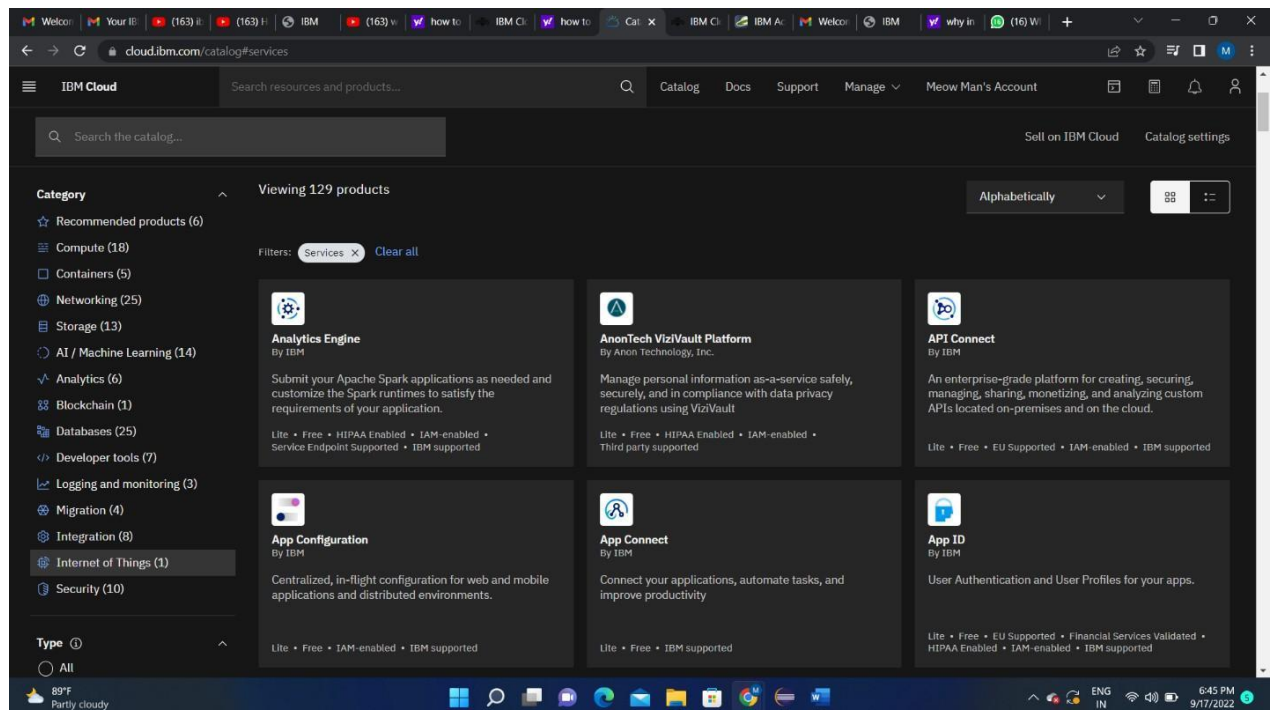
1. Firstly create an IBM cloud account with IBMid and password



2. Home page of IBM cloud



3. Click on the catalog on the top



4. Click on IoT in the category mentioned

The screenshot shows the IBM Cloud 'Internet of Things Platform' page. The 'Create' tab is active, displaying a 'Select a location' dropdown set to 'Dallas (us-south)' and a 'Select a pricing plan' section. The 'Lite' plan is selected, which is free and includes up to 500 registered devices and 200 MB of data. 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.' The 'Summary' panel on the right shows the service name as 'Internet of Things Platform-bb' and the resource group as 'Default'. The 'Create' button is disabled.

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

The screenshot shows the 'Configure your resource' section of the IBM Cloud 'Internet of Things Platform' page. The 'Lite' plan is still selected. The 'Service name' field is set to 'Internet of Things Platform-bb' and the 'Resource group' is 'Default'. The 'Create' button remains disabled. The warning message about the existing Lite plan instance is still present. The 'Summary' panel on the right shows the service name as 'Internet of Things Platform-bb' and the resource group as 'Default'.

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 IBM Cloud catalog page for the 'Internet of Things Platform'. The 'Create' tab is active, displaying a 'Select a location' dropdown menu with 'Dallas (us-south)' selected. Below this, a 'Select a pricing plan' section shows the 'Lite' plan as the selected option. The 'Lite' plan includes up to 500 registered devices and a maximum of 200 MB of each data metric. The pricing is listed as 'Free'. On the right side, a 'Summary' panel shows the service name as 'Internet of Things Platform', location as 'Dallas', and plan as 'Lite'. A warning message indicates that only one 'Lite' plan instance can be created per resource group. At the bottom, there are checkboxes for 'I have read and agree to the following license agreements:' and buttons for 'Create' and 'Add to estimate'.

IBM Cloud

Search resources and products...

Catalog Docs Support Manage Meow Man'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

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.

Lite plan services are deleted after 30 days of inactivity.

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

The screenshot shows the IBM Cloud catalog page for the 'Internet of Things Platform'. The 'Configure your resource' section is active, displaying a 'Service name' dropdown menu with 'Internet of Things Platform-child_safety' selected. Below this, a 'Select a resource group' dropdown menu shows 'Default' as the selected option. The 'Tags' section shows 'Examples: env:dev, version-1'. The 'Access management tags' section shows 'Examples: access:dev, proj:version-1'. On the right side, a 'Summary' panel shows the service name as 'Internet of Things Platform', location as 'London', and plan as 'Lite'. A checkbox for 'I have read and agree to the following license agreements:' is checked. At the bottom, there are buttons for 'Create' and 'Add to estimate'.

IBM Cloud

Search resources and products...

Catalog Docs Support Manage Meow Man's Account

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	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

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 servies)

The screenshot shows the IBM Cloud IoT Platform console. The left sidebar has a 'Manage' tab selected. The main content area displays 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 titled 'IBM Watson IoT Platform Journey' with three stages: 'Lite', 'Non-Production', and 'Production'. The 'Lite' stage is currently selected and shows a description and a 'Free' price point.

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

The screenshot shows the IBM Cloud IoT Platform console with the 'Plan' tab selected. The main content area displays the 'Current plan' as 'Lite' and 'Current usage' as 'N/A'. Below this is a 'Change pricing plan' section with a table showing the 'Lite' plan details and pricing.

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

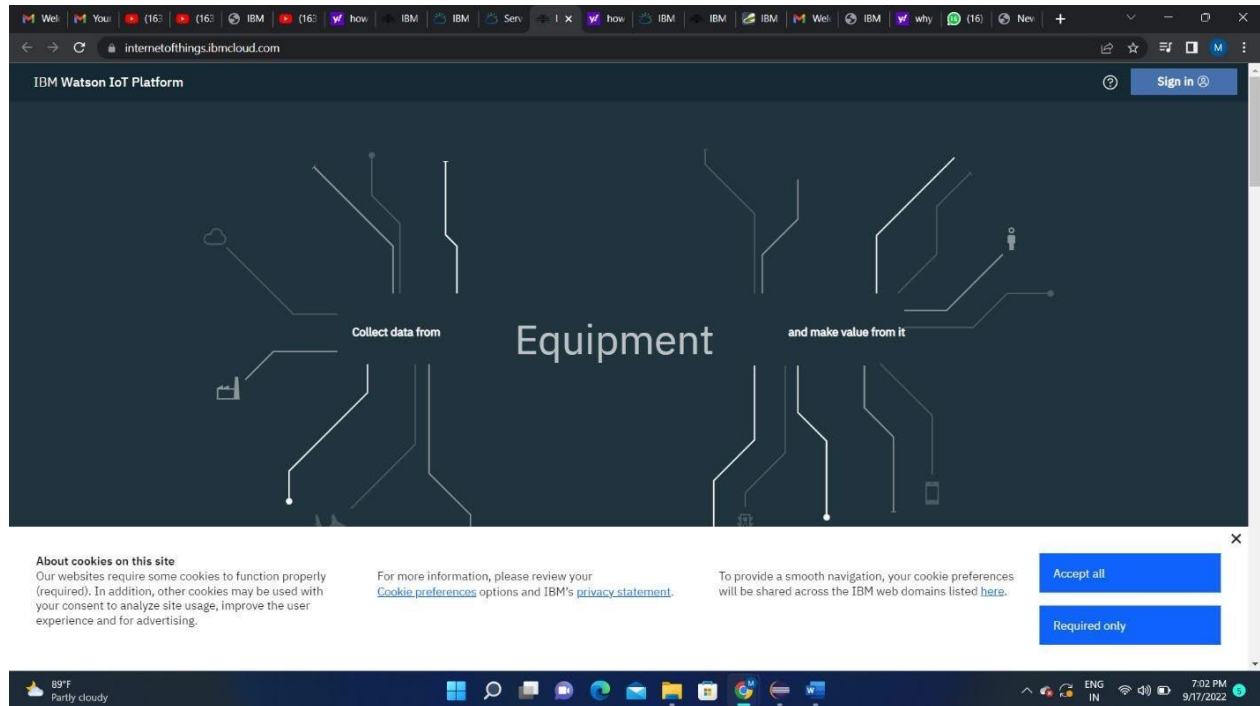
N/A

Lite plan services are deleted after 30 days of inactivity.

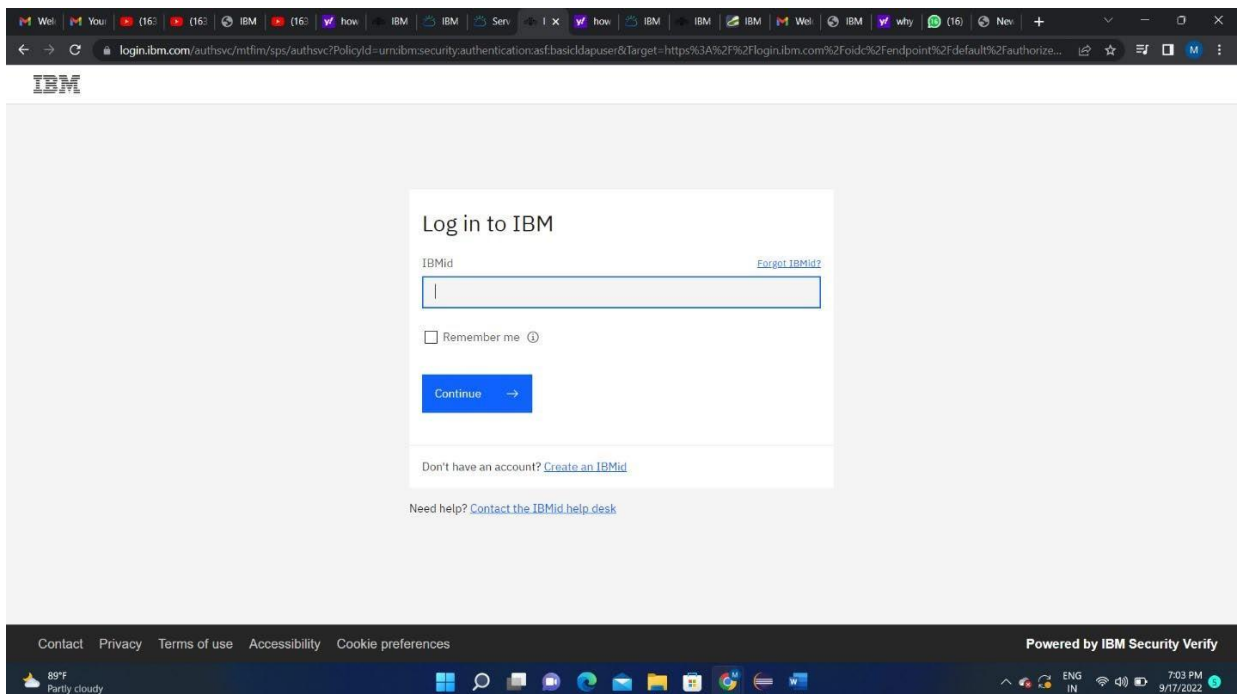
Change pricing plan

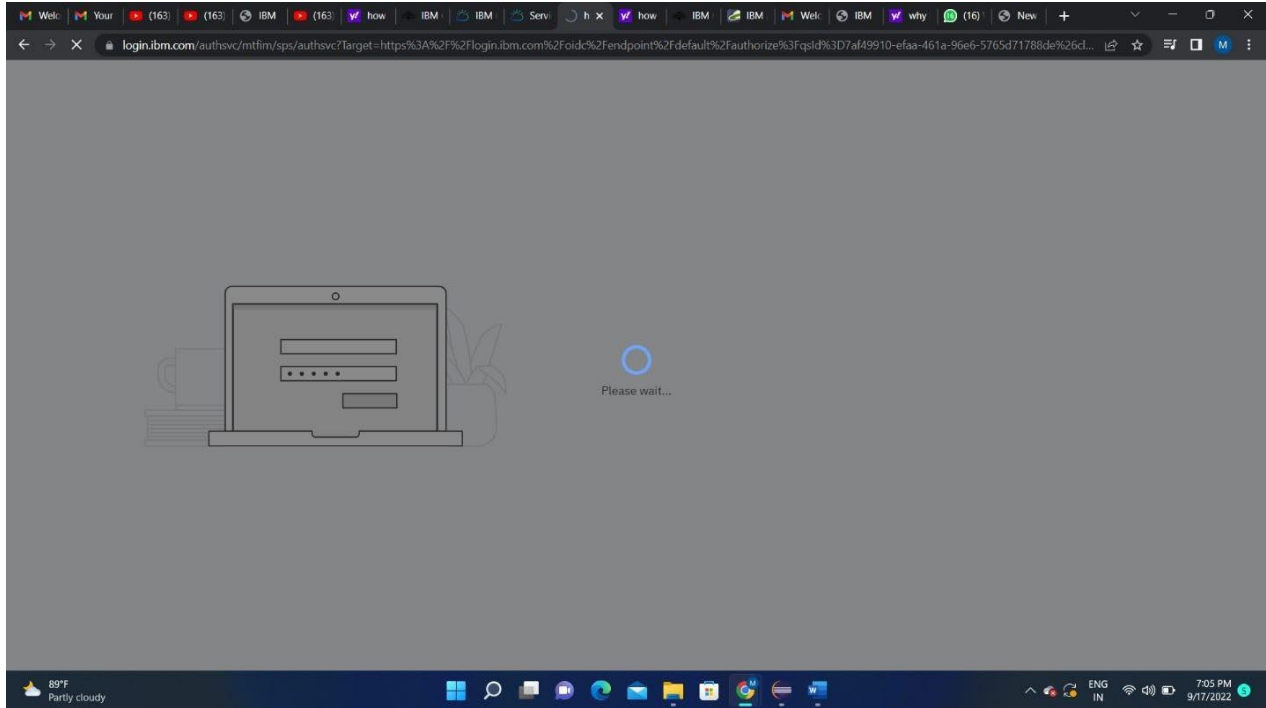
Plan	Features	Pricing
Lite	Includes up to 500 registered devices, and a maximum of 200 MB of each data metric Maximum of 500 registered devices Maximum of 500 application bindings Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed	Free 🔄

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

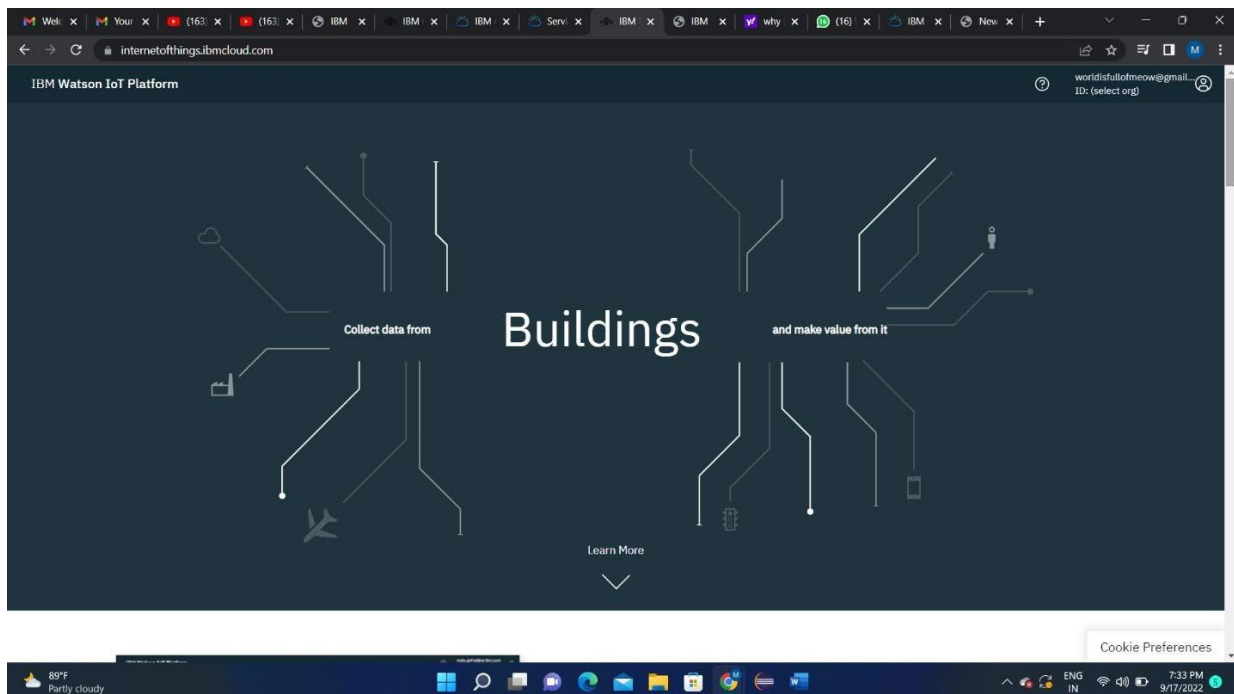


9. Enter the details to sign in to the Watson Cloud to create a device

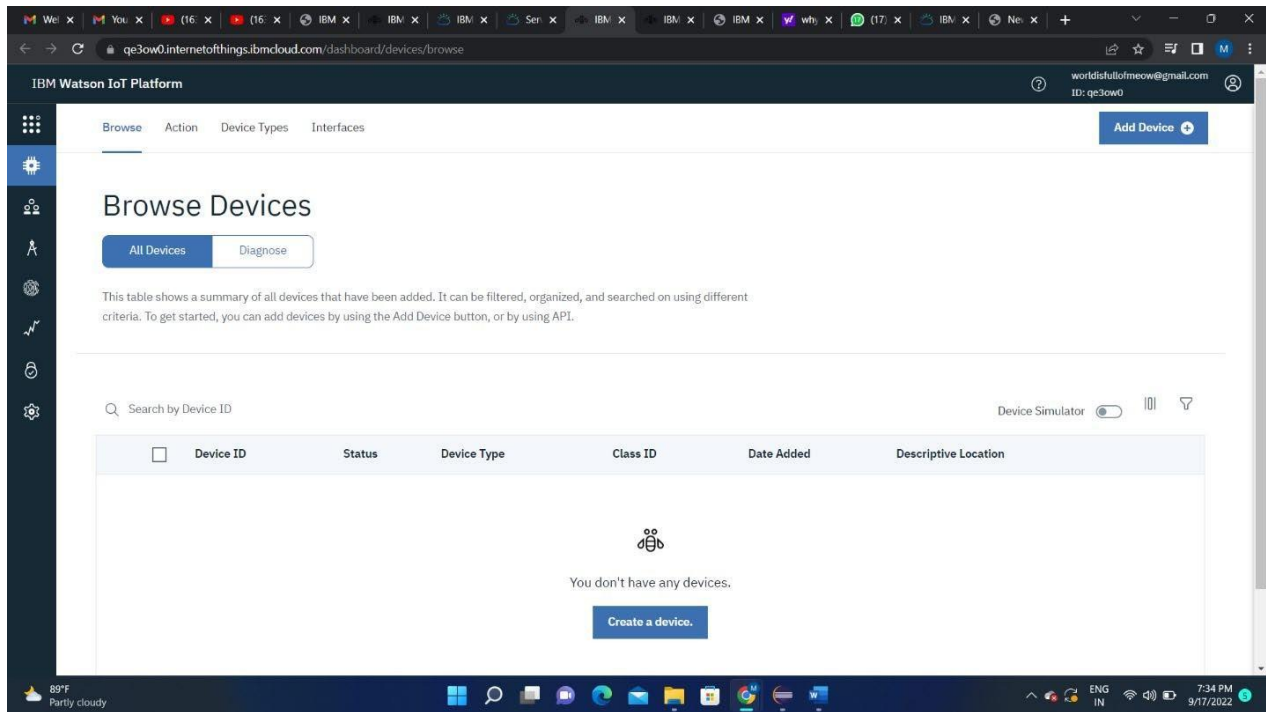




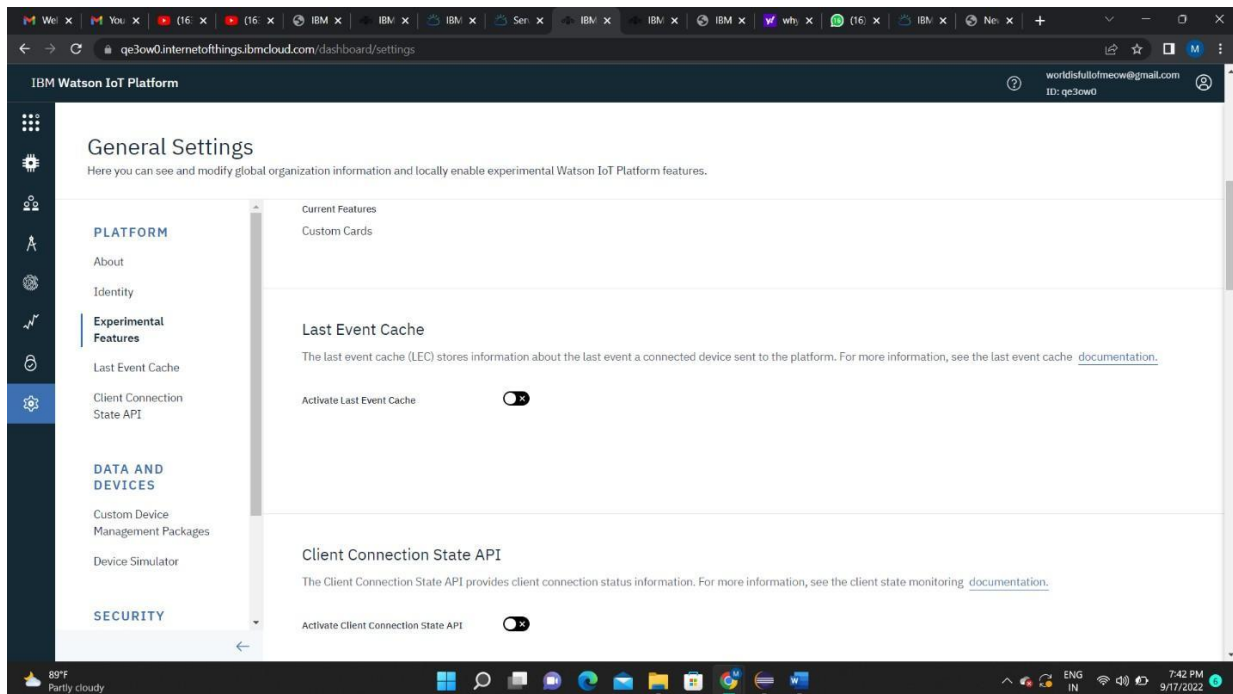
10. Once logged in the name will be displayed and it goes back to the first page



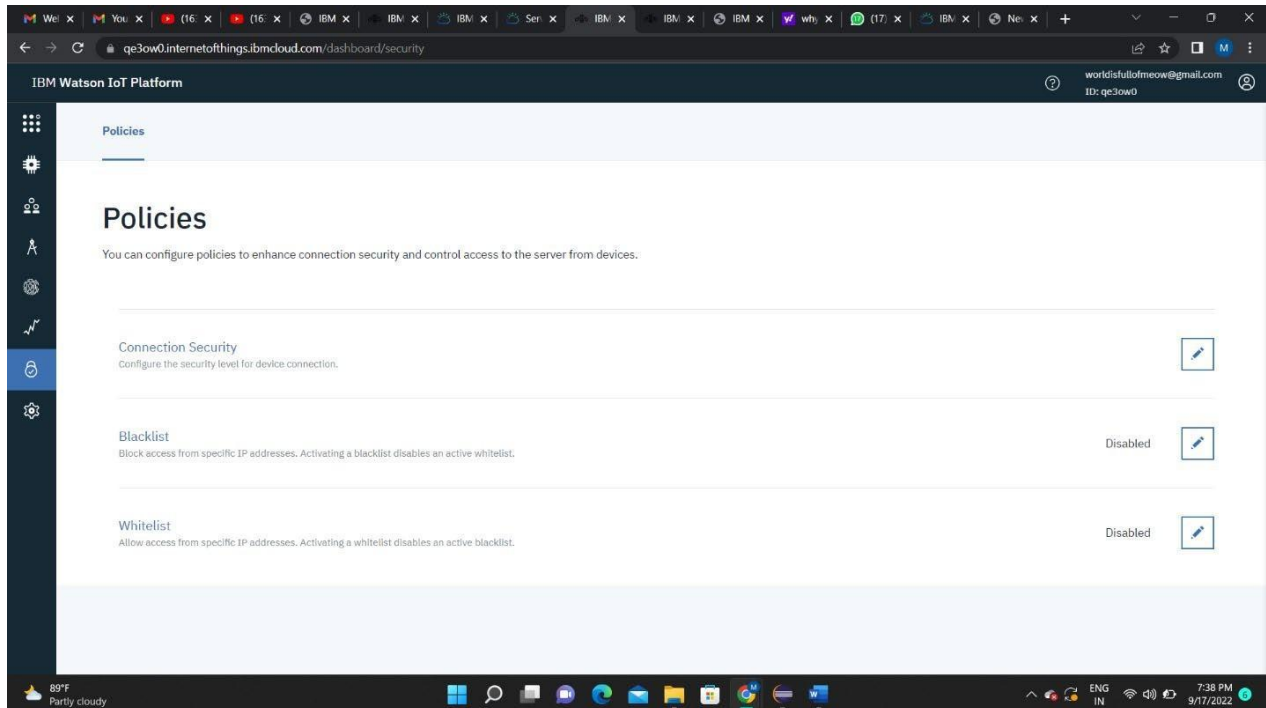
11. And again clicking on the launch button will open this tab, the device will help in the creation of the devices, the addition of devices, and the display of details of the devices.



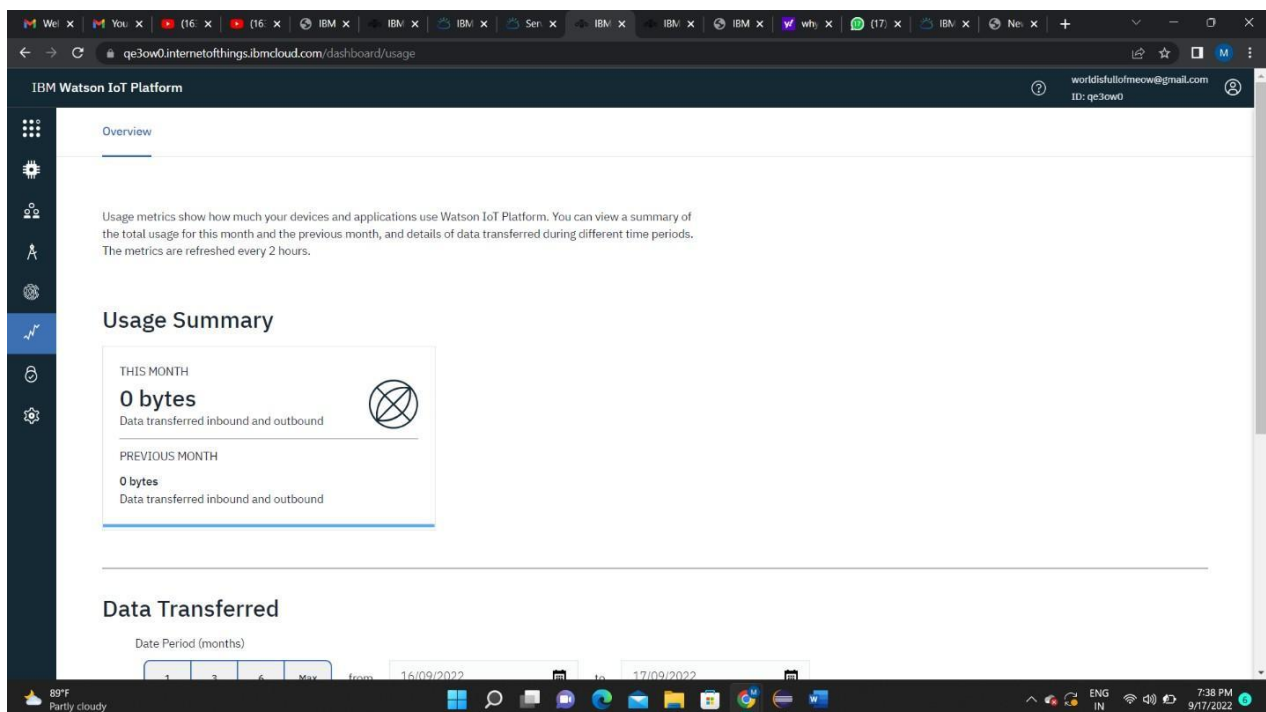
12. The setting tab is used to change the general setting if needed for the project.



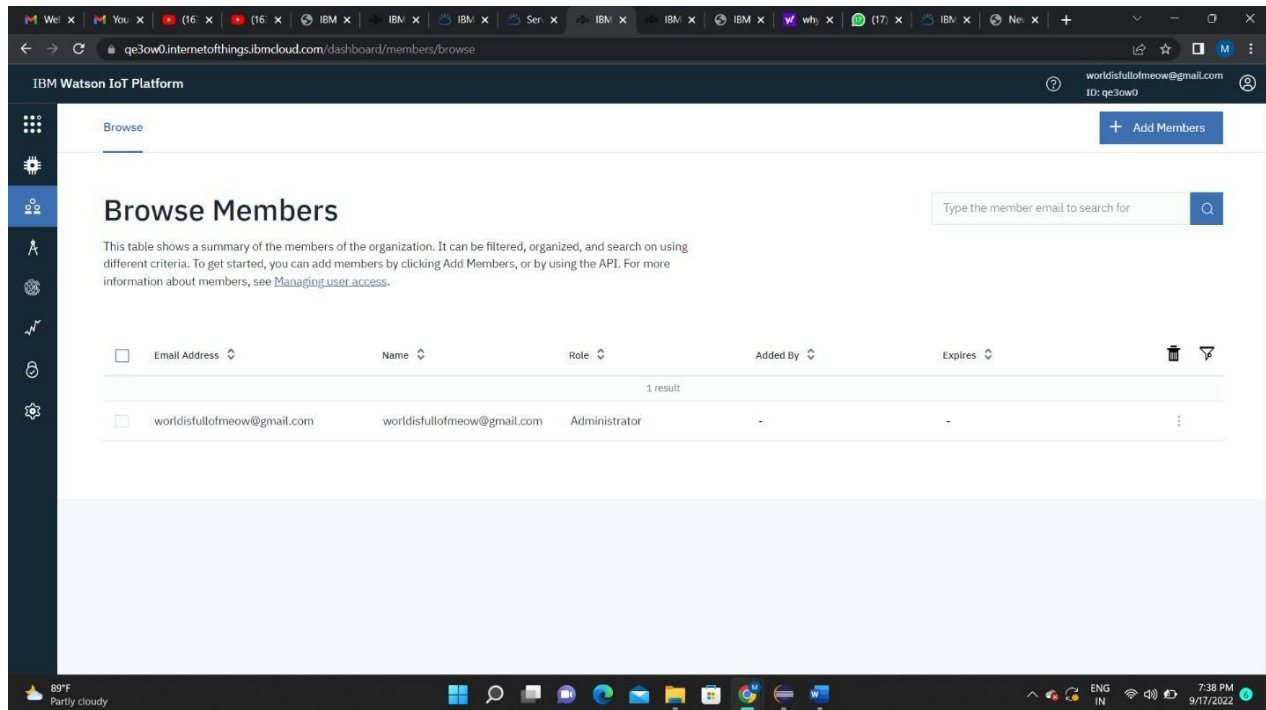
13. In the security tab we can choose the type of security connection and can change according to specification



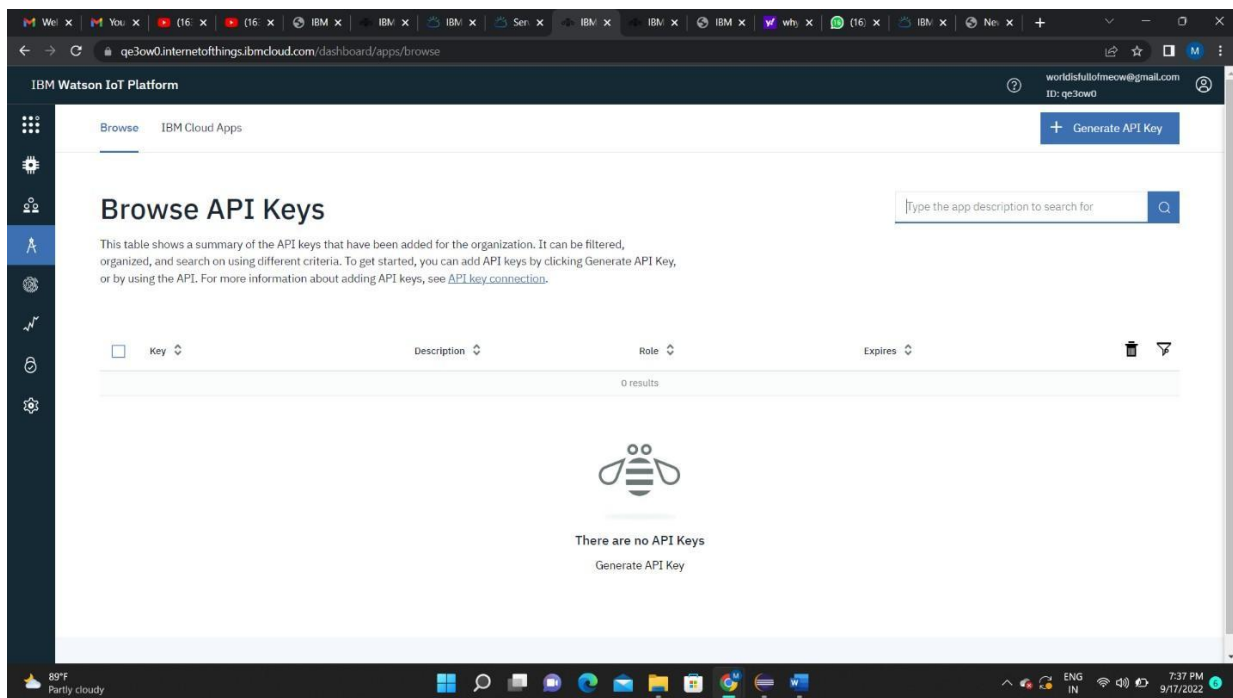
14. Usage gives the summary of how many bytes are used between the devices and the IBM cloud.



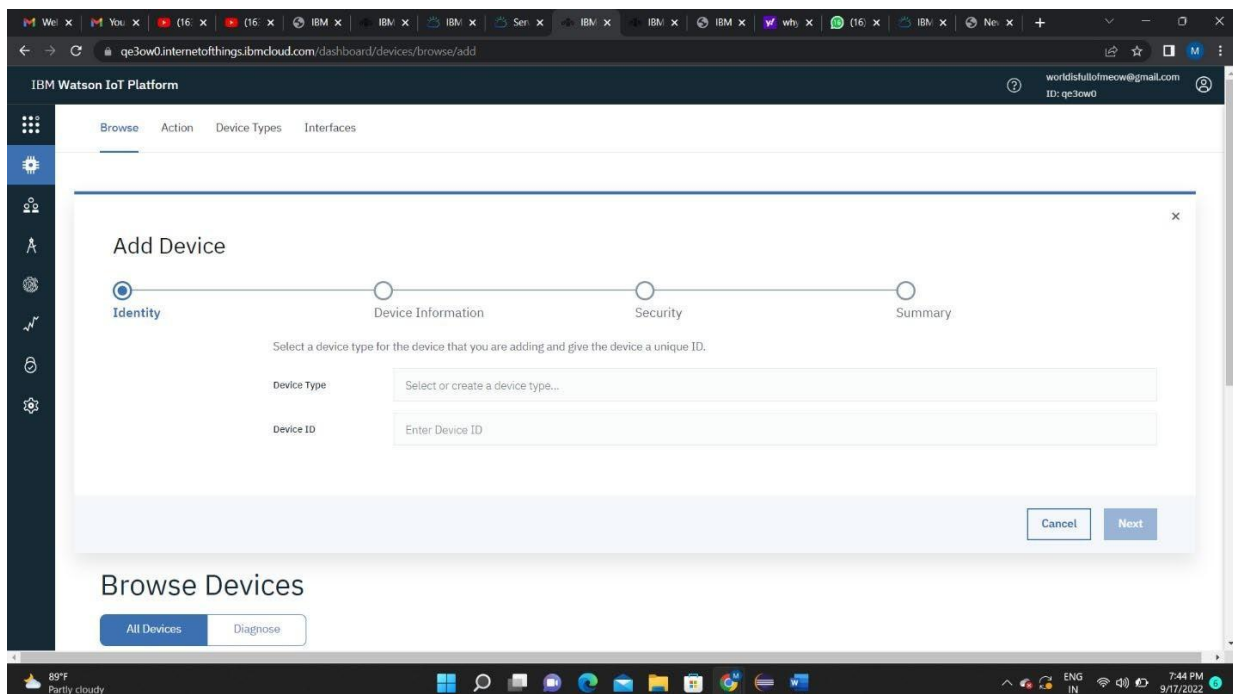
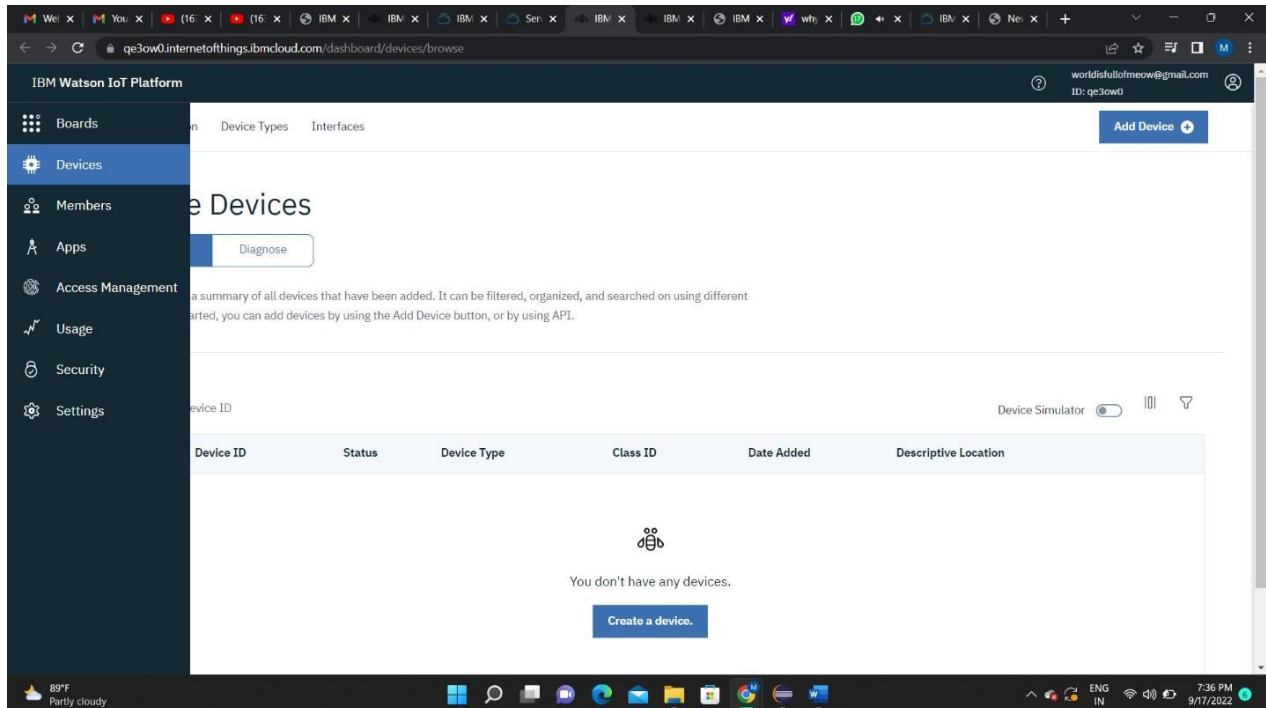
15. The member tab is add the teams members to work in the platform

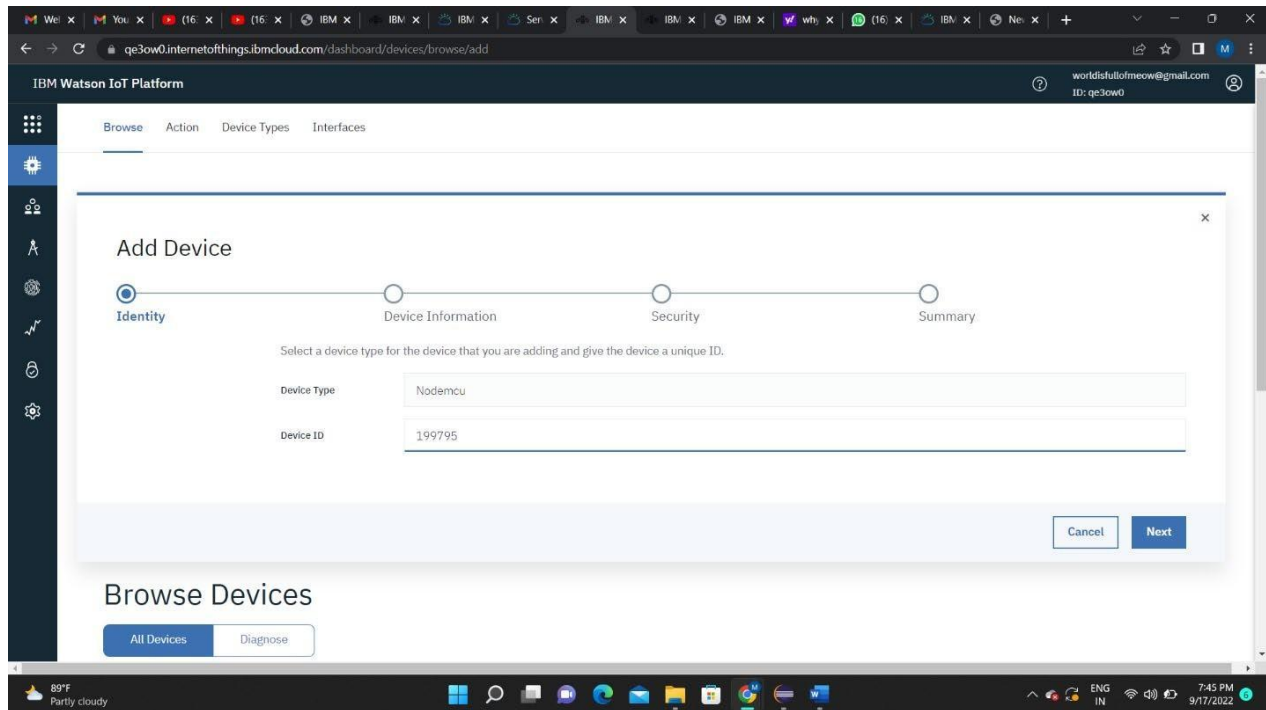


16. This tab is used when you want to connect to some other platform and to integrate with other services.

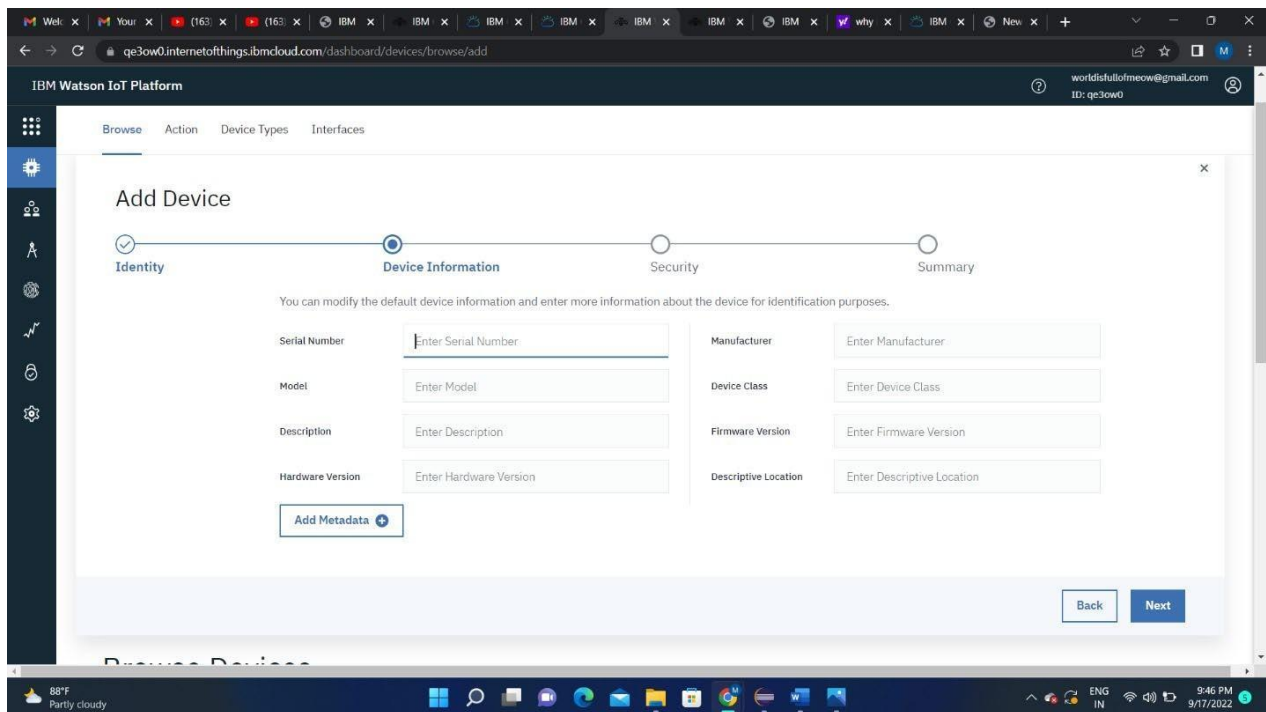


17. Click on the device tab and click on the add device button, then give the device type and device id and click next

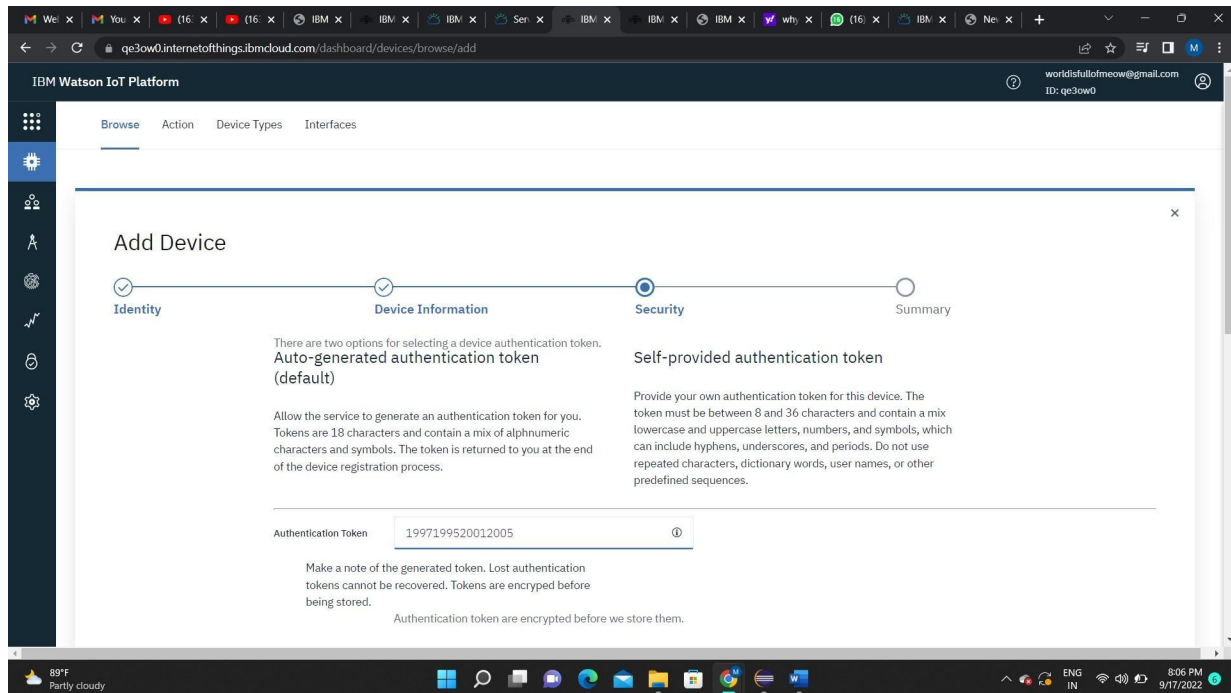




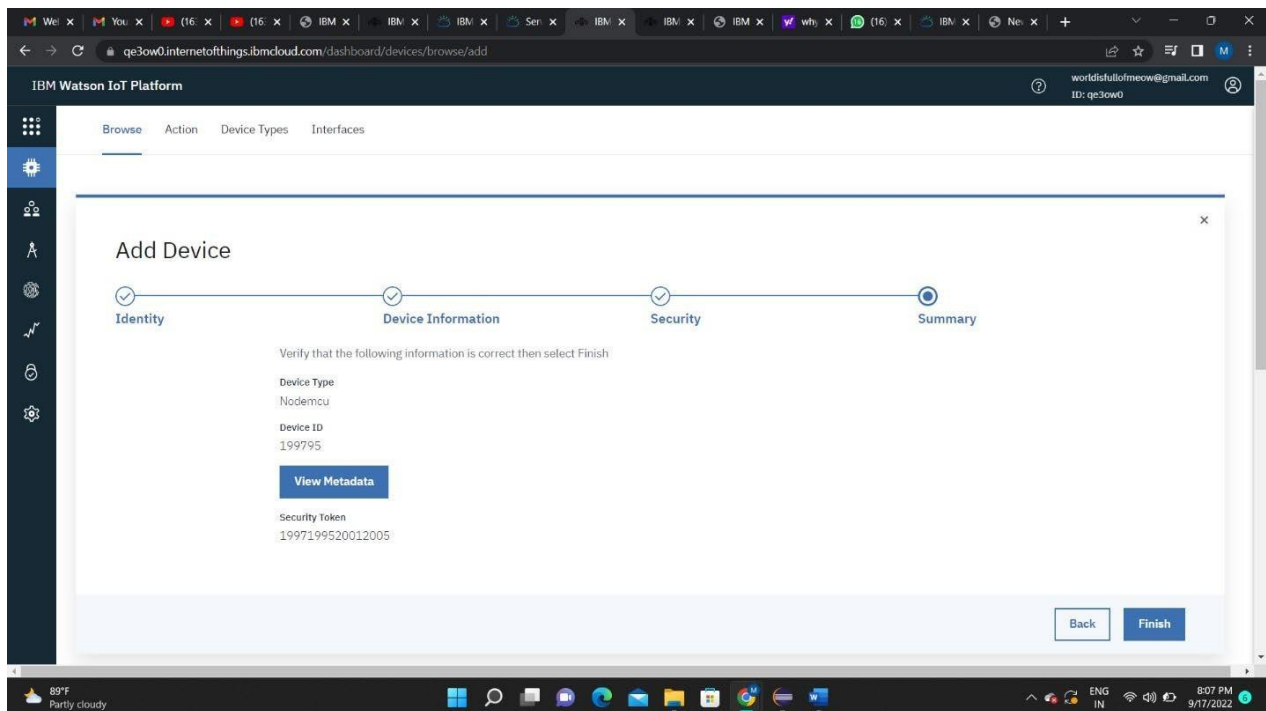
18. This page to enter extra details and of the hardware



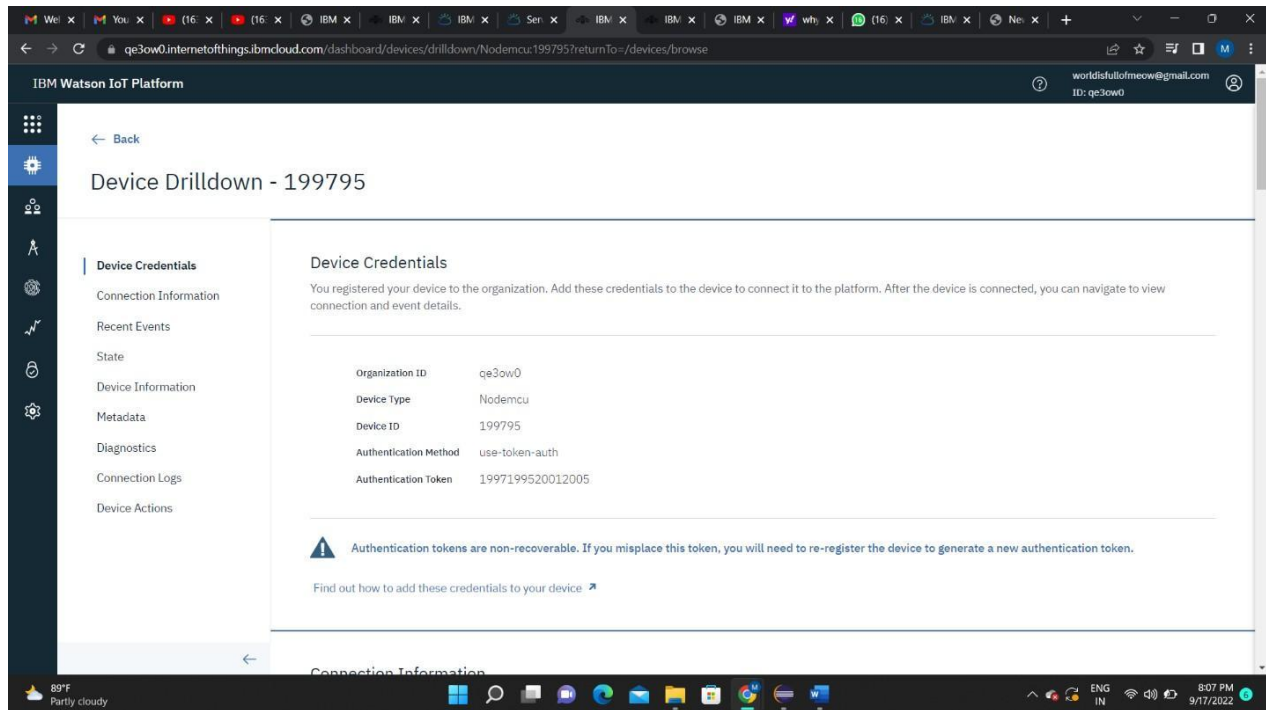
19. Clicking next it goes to the security where we do authentication token id.



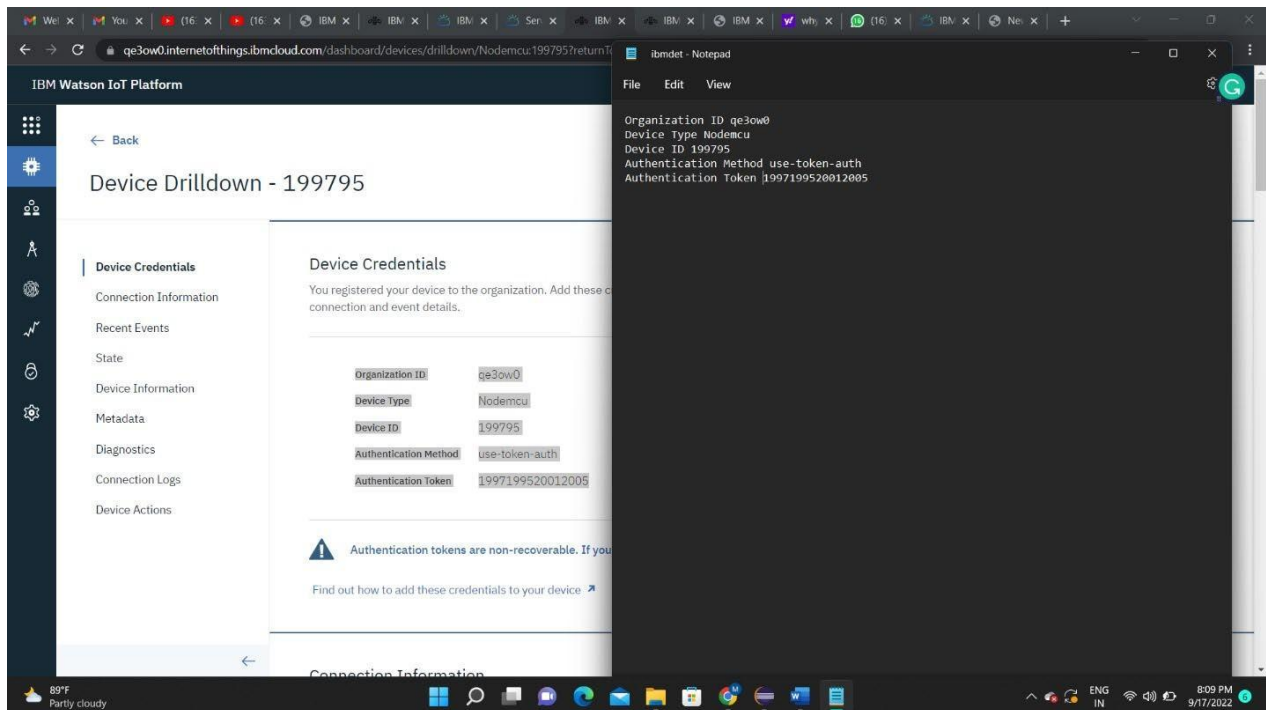
20. Clicking on next it goes to the summary of the device then click finish



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



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



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.

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar is present with the text 'Search by Device ID'. Below the search bar, there is a table with columns: Device ID, Status, Device Type, Class ID, Date Added, and Descriptive Location. The table contains one entry with Device ID 199795, Status Disconnected, Device Type Nodemcu, Class ID Device, and Date Added 17 Sep 2022 20:07. Below the table, there are tabs for 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. The 'Recent Events' tab is selected, showing a message: 'The recent events listed show the live stream of data that is coming and going from this device.' Below this message, there is a table with columns: Event, Value, Format, and Last Received. The table is currently empty, and a message 'Waiting for device events...' is displayed at the bottom.

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Property	Value
Device ID	199795
Device Type	Nodemcu
Date Added	17 Sep 2022 20:07
Added By	worldisfullofmeow@gmail.com
Connection Status	Disconnected

At the bottom of the page, there is a pagination bar showing 'Items per page: 50' and '1-1 of 1 item'.

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.

The screenshot displays the IBM Watson IoT Platform dashboard. The top navigation bar includes the IBM logo and the text 'IBM Watson IoT Platform'. The main content area is divided into two sections: 'Your boards' and 'Public boards'. Under 'Your boards', there are two overview cards: 'USAGE OVERVIEW' (3 Cards) and 'RISK AND SECURITY OVERVIEW' (4 Cards). A 'Create New Board' button is located in the top right corner. Below these cards, a section titled 'Boards shared with you' is visible. The bottom part of the image shows a detailed view of the 'Usage Overview' board. This board contains a donut chart for 'Device types' showing 'Total 1 device' and 'Nodemcu 1'. It also features a 'Data transferred' section with the following data: '0.2 MB Data transferred today', '0.2 MB This month', and '0.0 MB Previous month'. A line graph at the bottom shows 'Data transferred today' over time, with a peak of 0.2 MB.