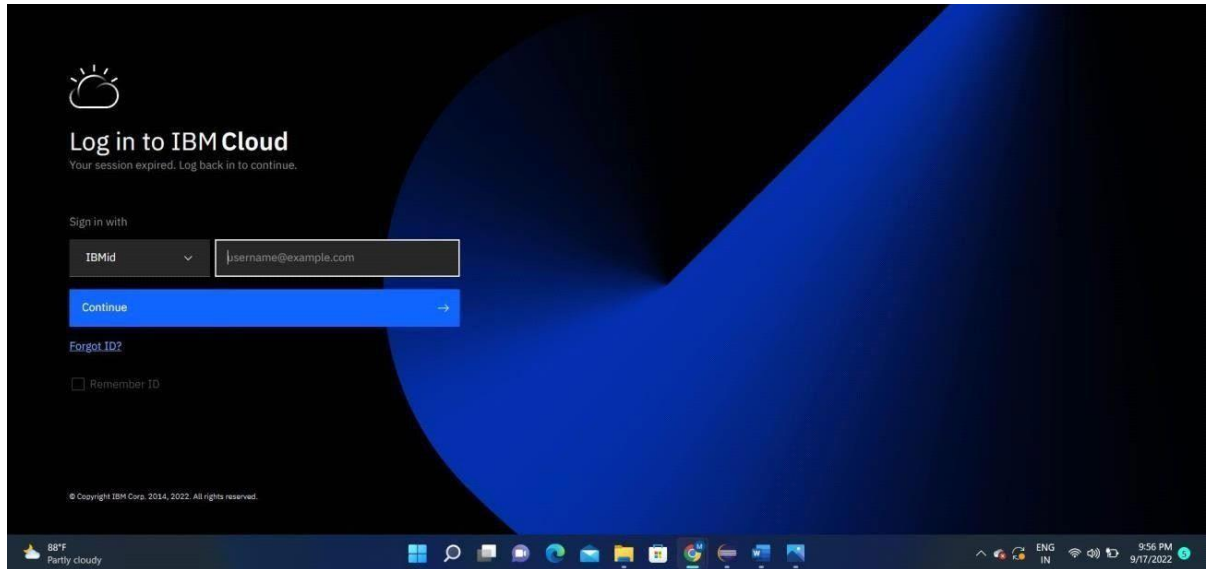


Team ID :-
PNT2022TMID36667

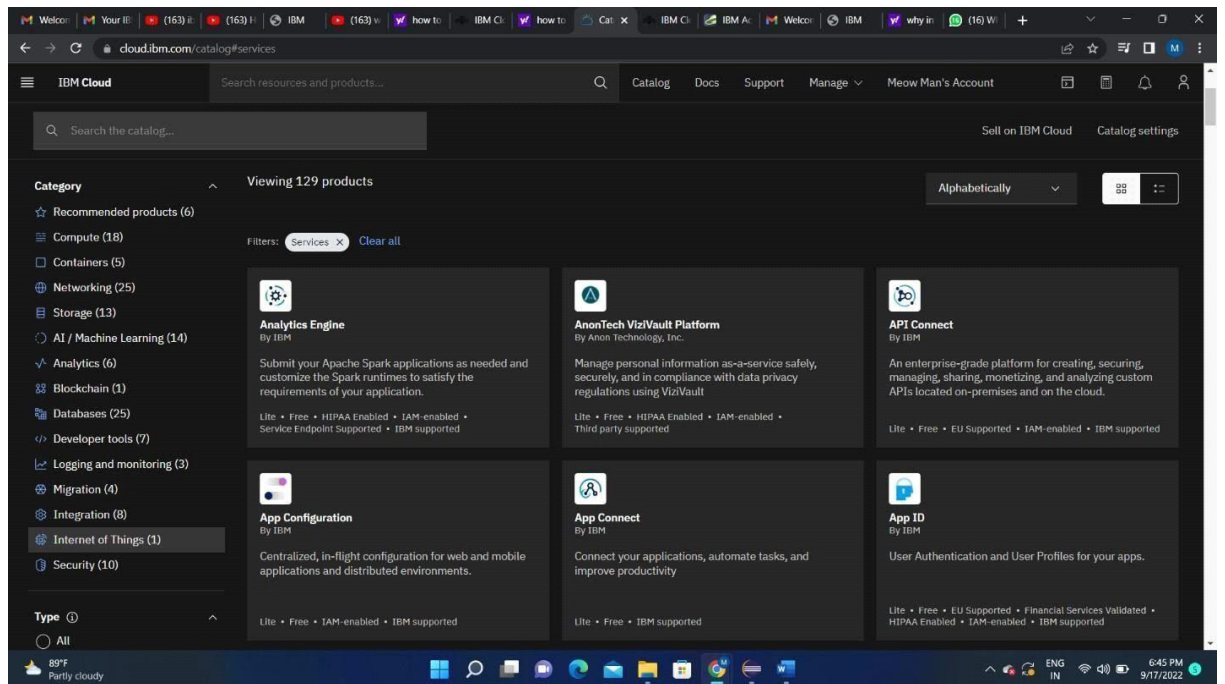
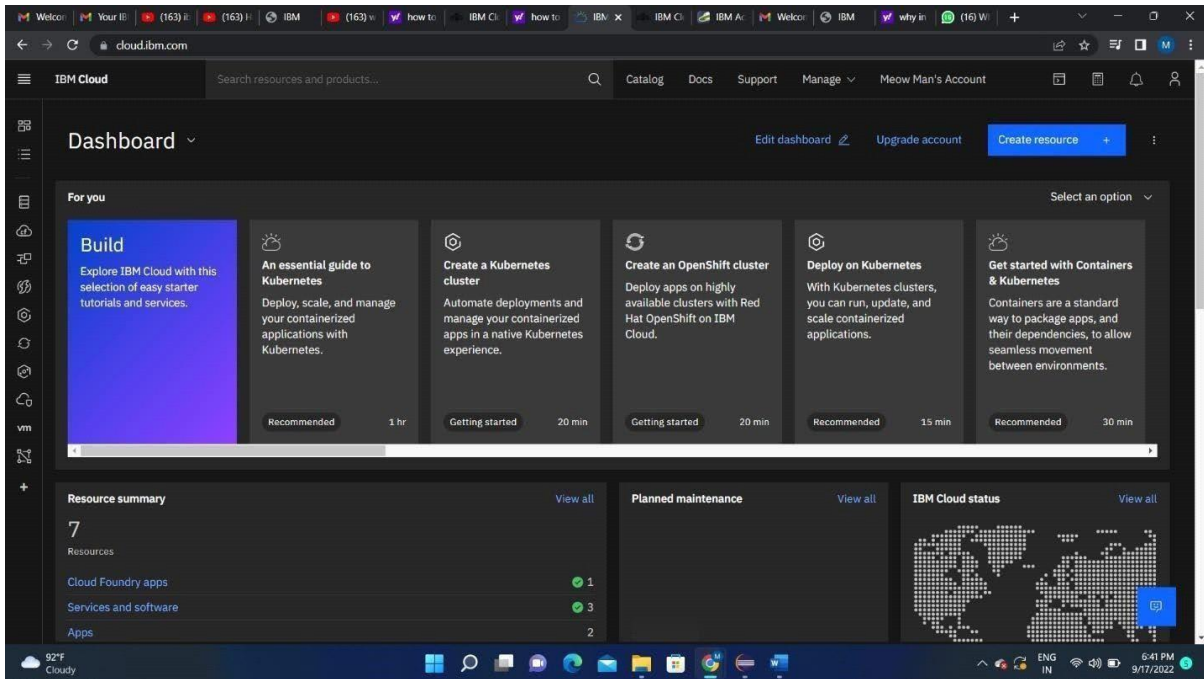
To create the IBM Watson IoT platform and device

STEPS:



Firstly create an IBM cloud account with IBMid and password

- Home page of IBM cloud



- Click on the catalog on the top
- Click on IoT in the category mentioned

The screenshot shows the IBM Cloud 'Internet of Things Platform' page. The 'Create' tab is active, displaying options to 'Select a location' (Dallas (us-south)) and 'Select a pricing plan' (Lite). The Lite plan is highlighted, showing features like up to 500 registered devices and 200 MB of data metric. A summary panel on the right shows the plan details and a warning about existing Lite plan instances.

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

The screenshot shows the 'Configure your resource' section of the IBM Cloud 'Internet of Things Platform' page. The 'Lite' plan is selected, and the configuration fields are visible. A summary panel on the right shows the plan details and a warning about existing Lite plan instances.

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-bb

Tags: Examples: env:dev, version:1

Select a resource group: Default

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

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.](#)

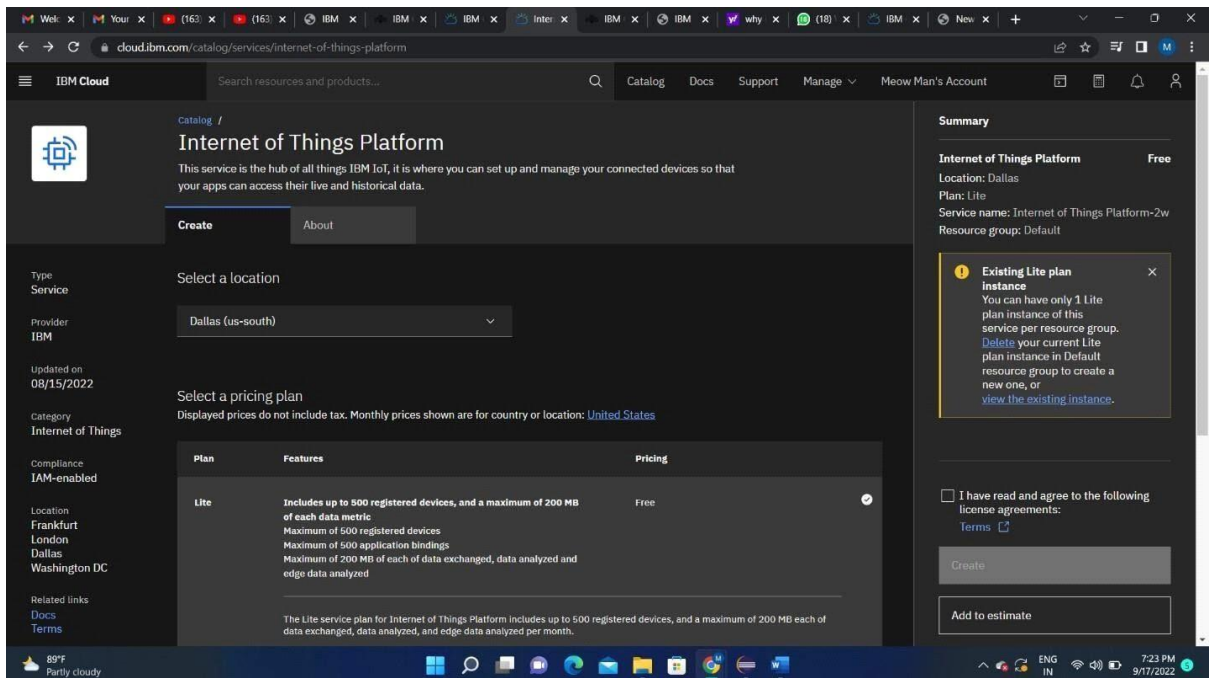
☐ I have read and agree to the following license agreements: [Terms](#)

Create

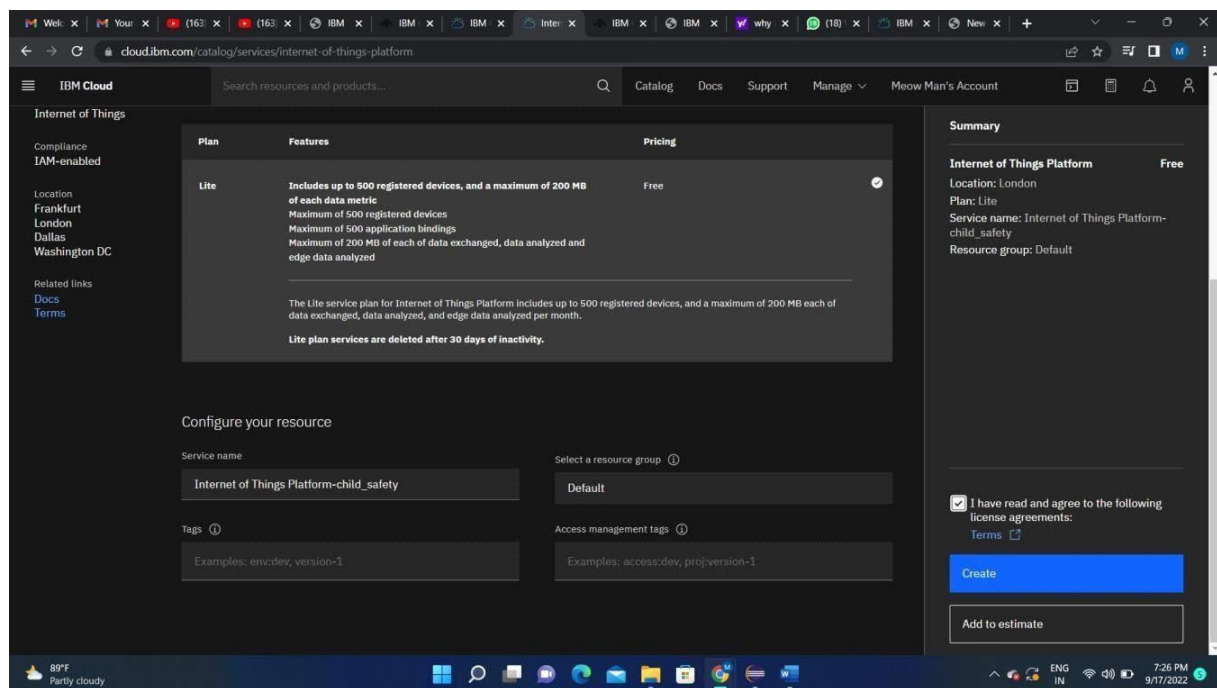
Add to estimate

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

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



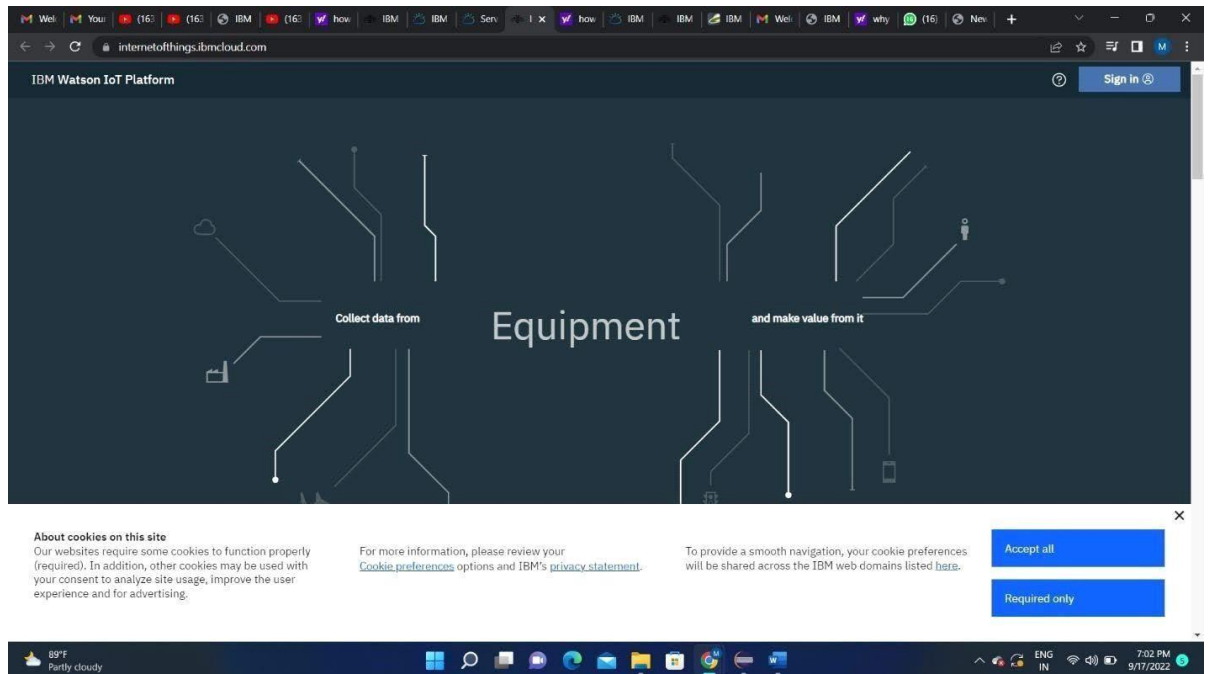
7.

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 top screenshot shows the IBM Cloud IoT Platform console for the resource 'Internet of Things Platform-child_safety'. The 'Manage' tab is selected, displaying a 'Let's get started with IBM Watson IoT Platform' guide. The guide includes a 'Launch' button and a 'Docs' button. Below the guide, there is a section titled 'Ready for the next level?' with three options: 'Lite', 'Non-Production', and 'Production'. The 'Lite' option is highlighted, showing it is a free service plan.

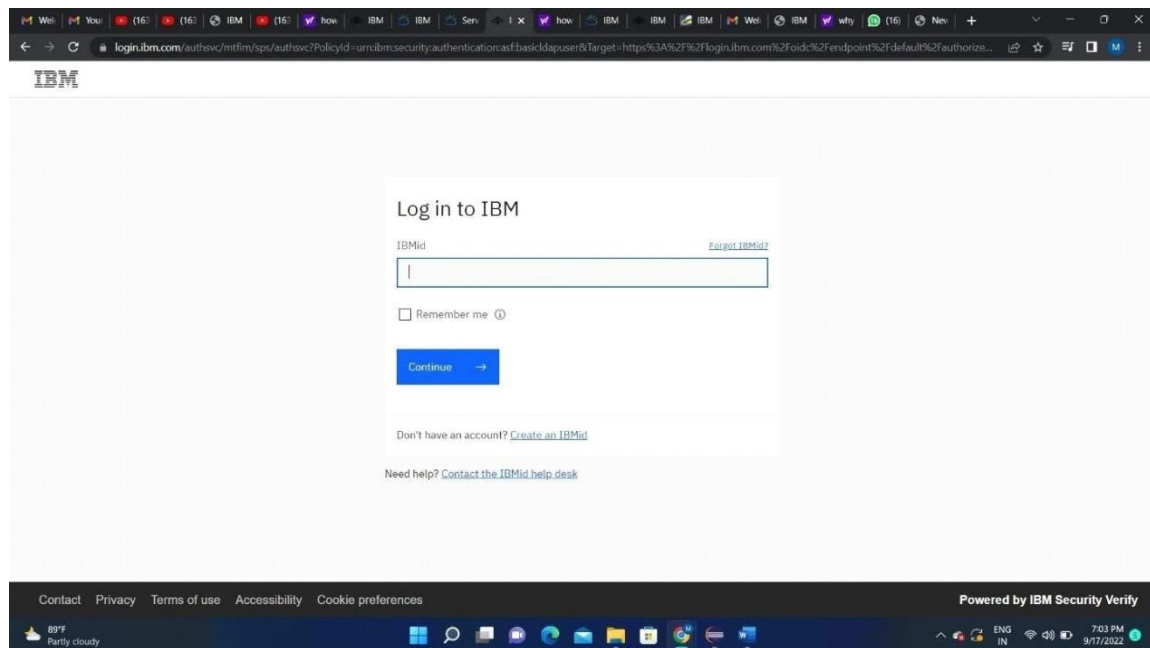
The bottom screenshot shows the same console with the 'Plan' tab selected. It displays the 'Current plan' as 'Lite' and the 'Current usage' as 'N/A'. The 'Lite' plan features include up to 500 registered devices, a maximum of 200 MB of each data metric, and a maximum of 500 application bindings. The 'Change pricing plan' section shows a table with the 'Lite' plan and its pricing.

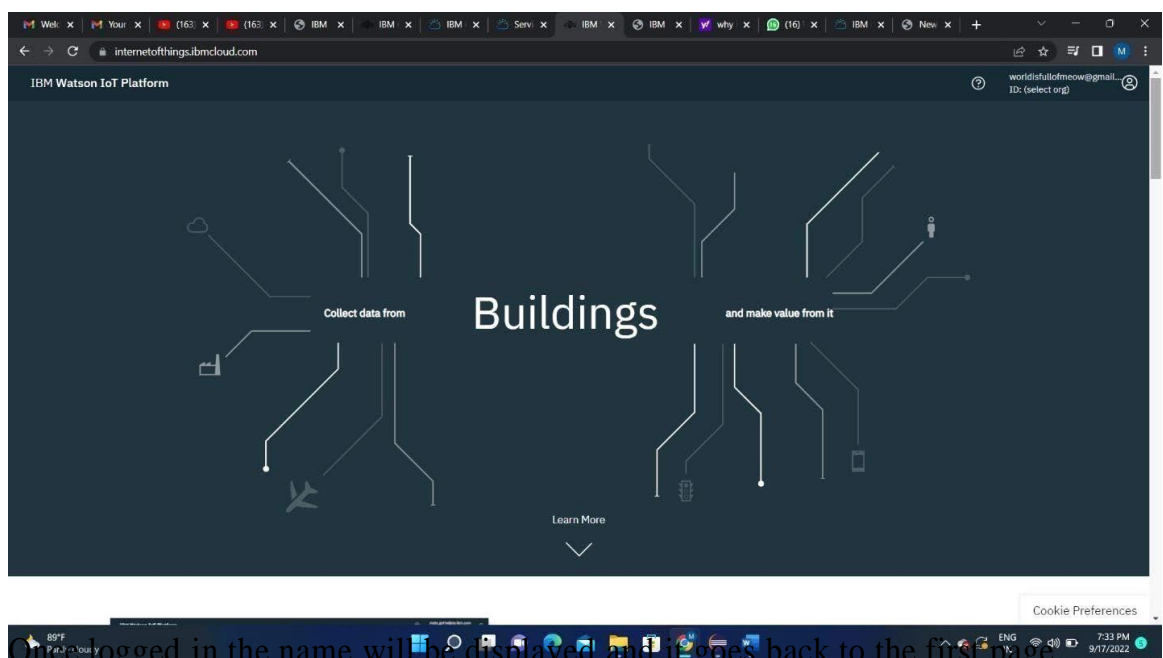
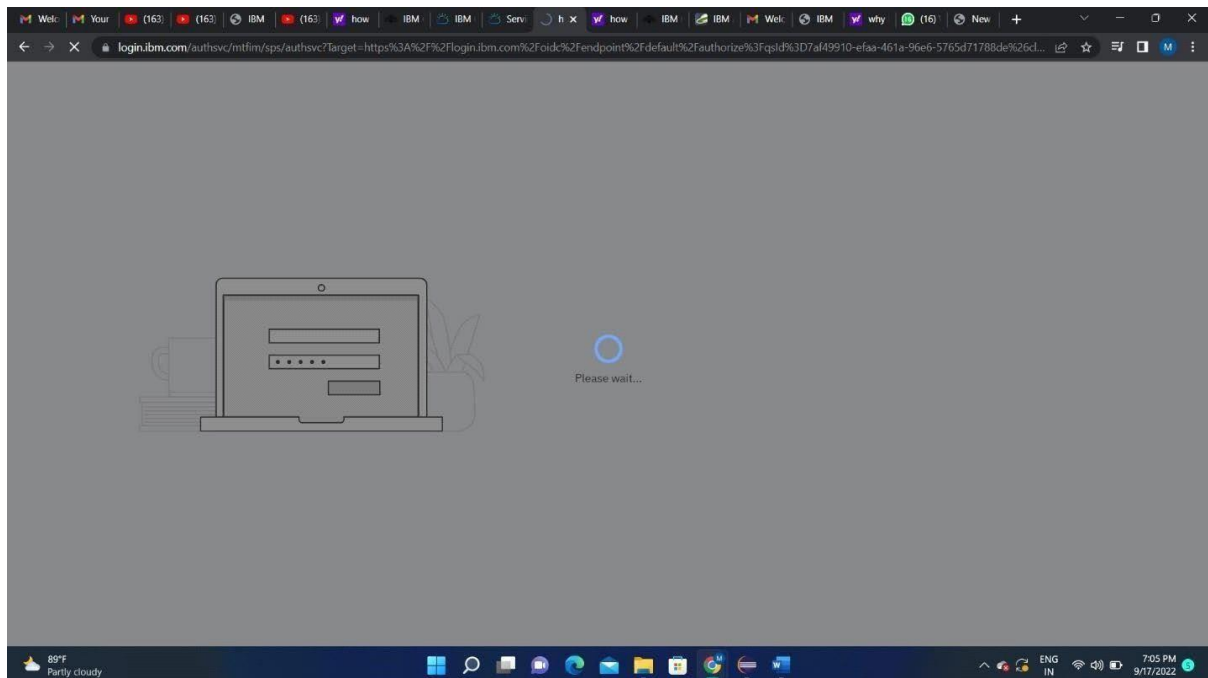
Plan	Features	Pricing
Lite	Includes up to 500 registered devices, and a maximum of 200 MB of each data metric Maximum of 500 registered devices Maximum of 500 application bindings Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed	Free



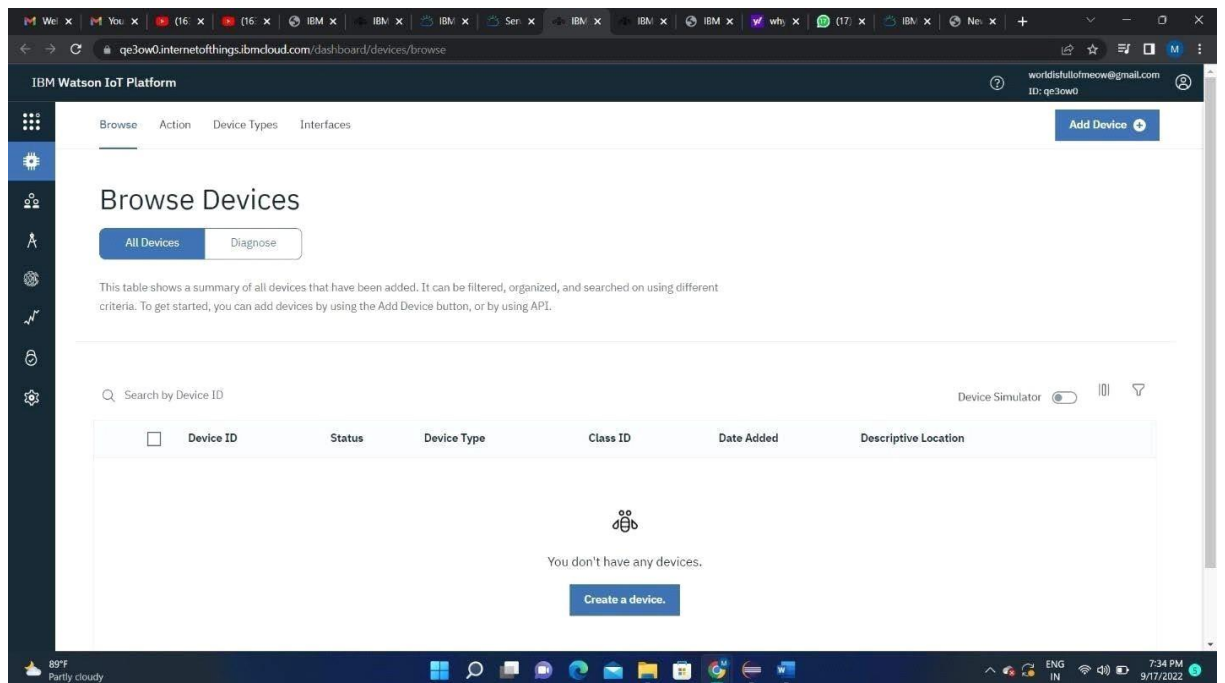
Clicking on the launch button in the manage tab, it will open to this

- Enter the details to sign in to the Watson Cloud to create a device

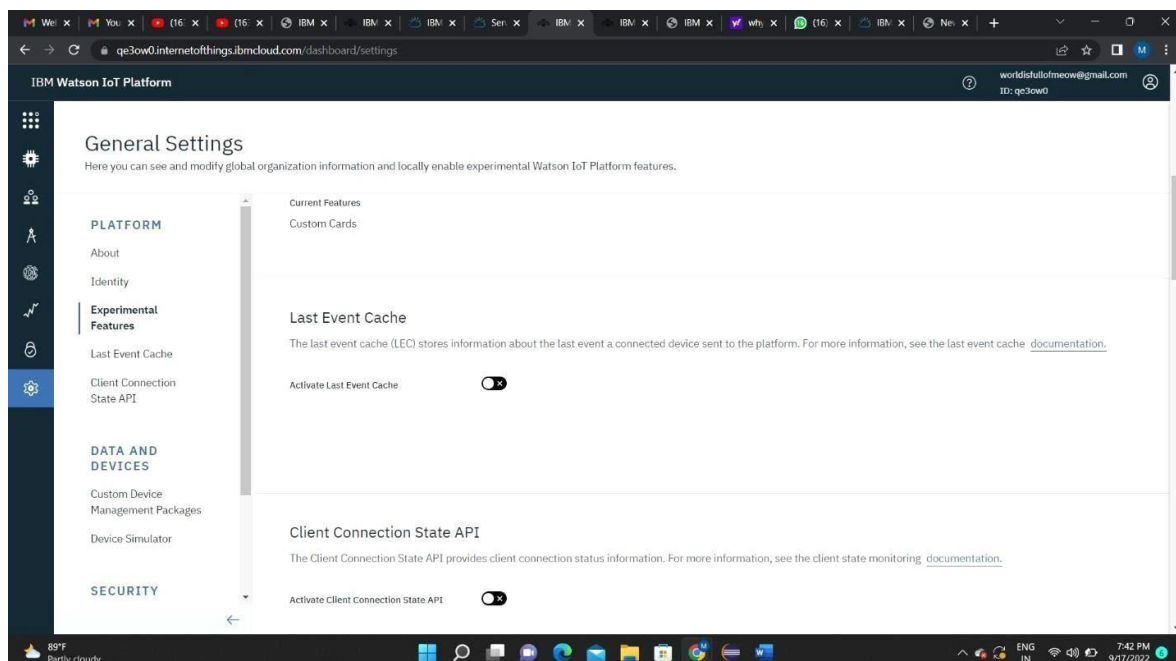




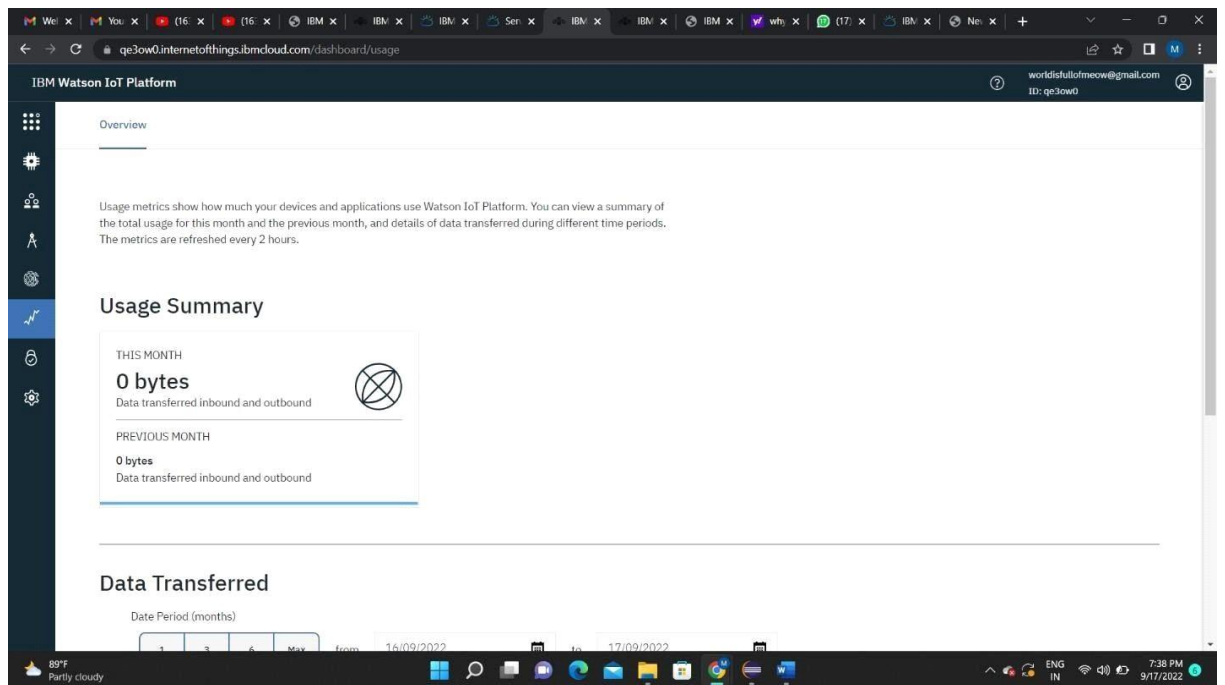
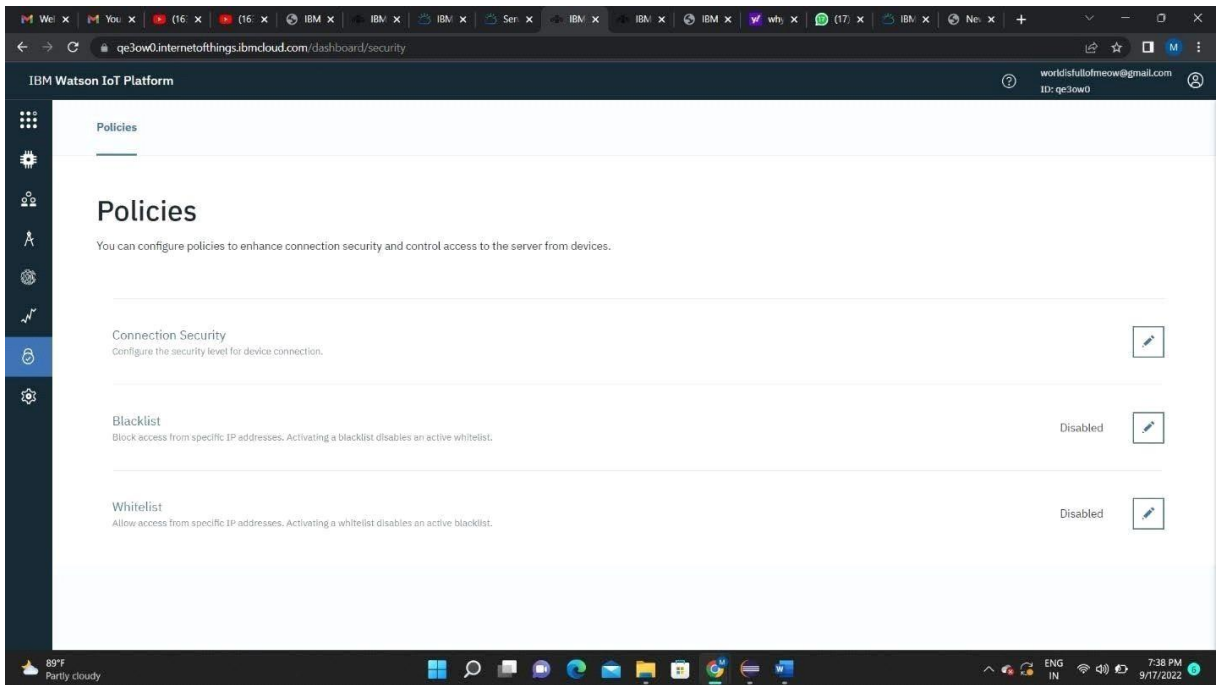
- Once logged in the name will be displayed and it goes back to the first page



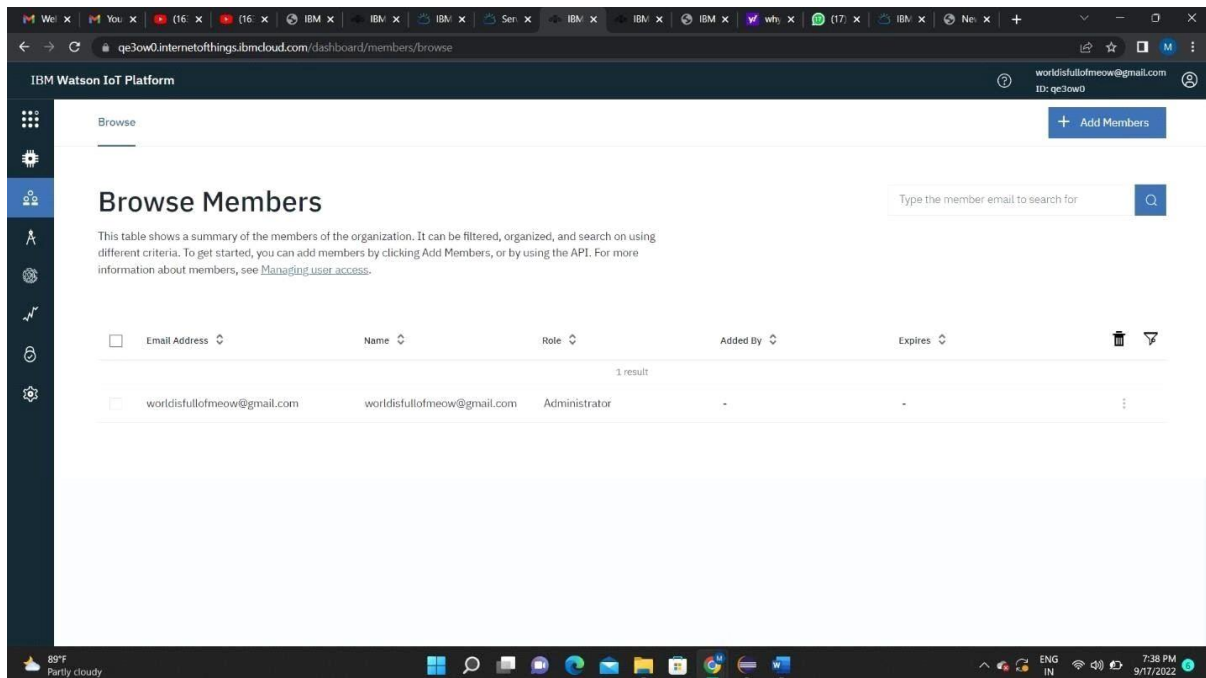
- And again clicking on the launch button will open this tab, the device will help in the creation of the devices, the addition of devices, and the display of details of the devices.
- The setting tab is used to change the general setting if needed for the project.



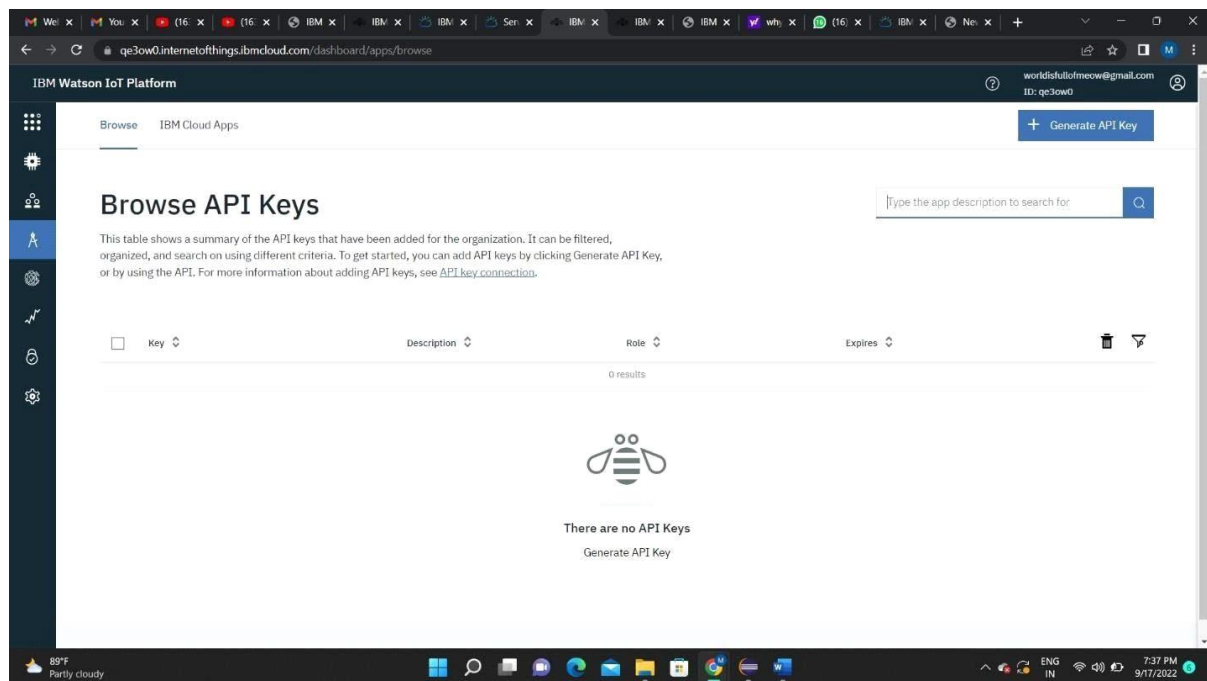
- In the security tab we can choose the type of security connection and can change according to specification



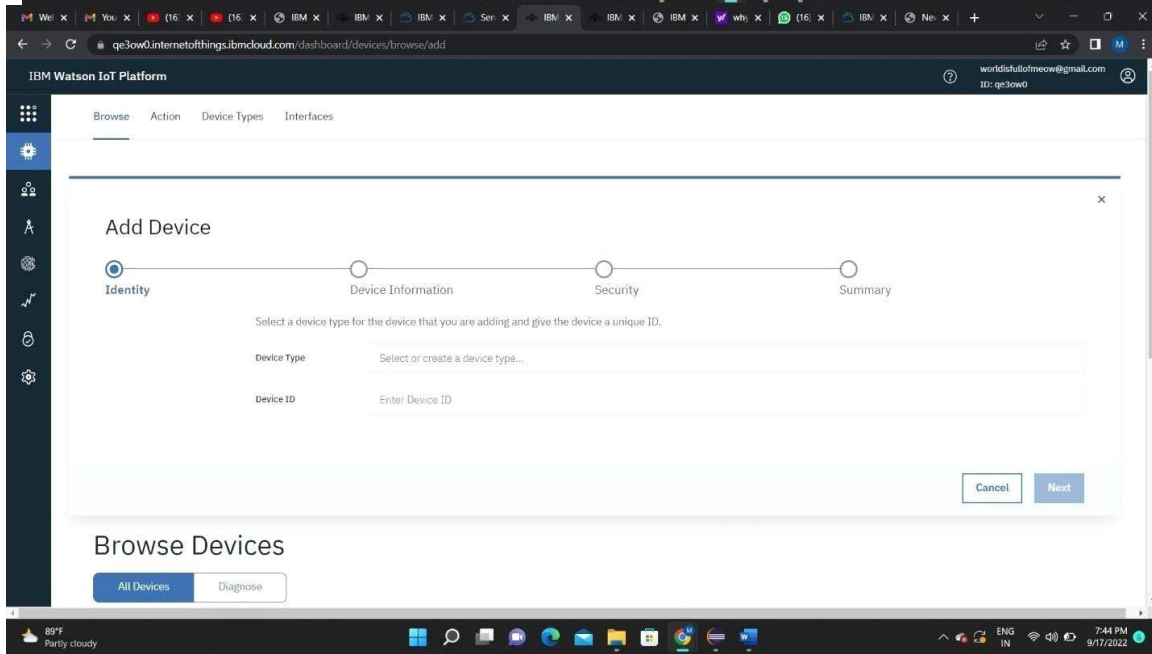
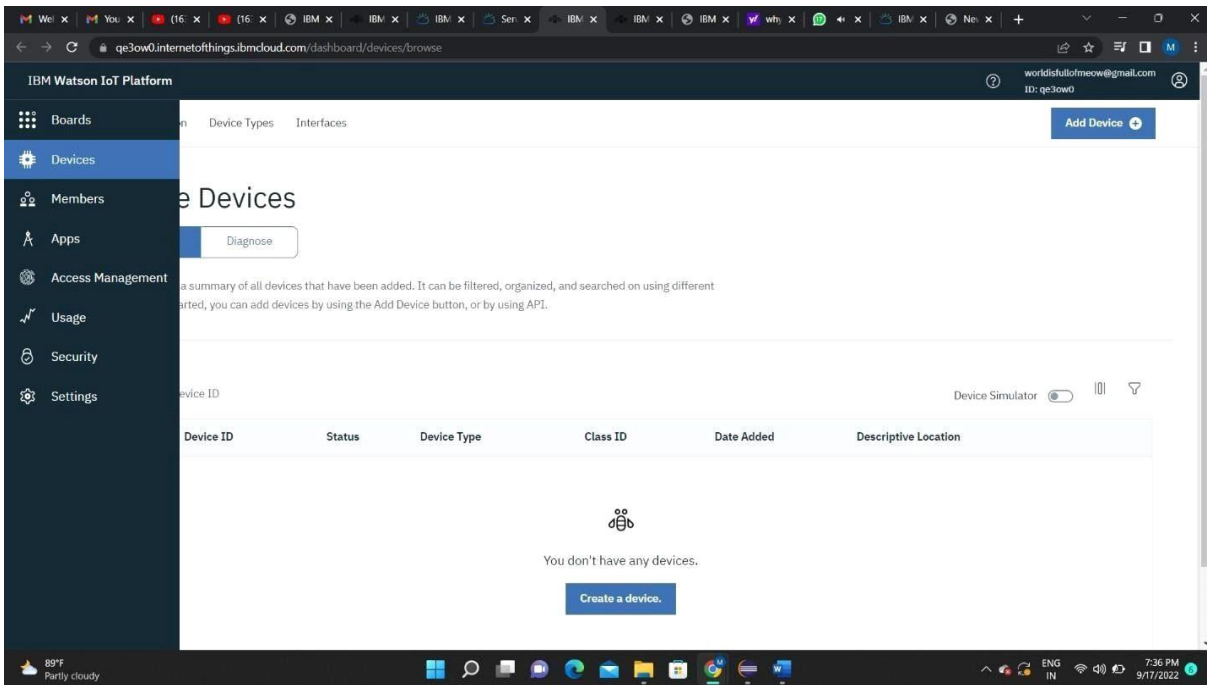
- Usage gives the summary of how many bytes are used between the devices and the IBM cloud.
- The member tab is add the teams members to work in the platform



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



- 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' wizard in the IBM Watson IoT Platform. The first step, 'Identity', is active. The progress bar shows four steps: Identity, Device Information, Security, and Summary. The instructions state: 'Select a device type for the device that you are adding and give the device a unique ID.' The 'Device Type' field is set to 'Nodemcu' and the 'Device ID' field is set to '199795'. There are 'Cancel' and 'Next' buttons at the bottom right. Below the wizard, there is a 'Browse Devices' section with 'All Devices' and 'Diagnose' buttons.

IBM Watson IoT Platform

worldistulofmeow@gmail.com
ID: qe3ow0

Browse Action Device Types Interfaces

Add Device

Identity Device Information Security Summary

Select a device type for the device that you are adding and give the device a unique ID.

Device Type: Nodemcu

Device ID: 199795

Cancel Next

Browse Devices

All Devices Diagnose

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform, now at the 'Device Information' step. The progress bar shows four steps: Identity, Device Information, Security, and Summary. The instructions state: '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 includes 'Serial Number', 'Model', 'Description', and 'Hardware Version'. The right column includes 'Manufacturer', 'Device Class', 'Firmware Version', and 'Descriptive Location'. Each field has a placeholder text 'Enter [field name]'. There is an 'Add Metadata' button with a plus icon at the bottom left. There are 'Back' and 'Next' buttons at the bottom right.

IBM Watson IoT Platform

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ID: qe3ow0

Browse Action Device Types Interfaces

Add Device

Identity Device Information Security Summary

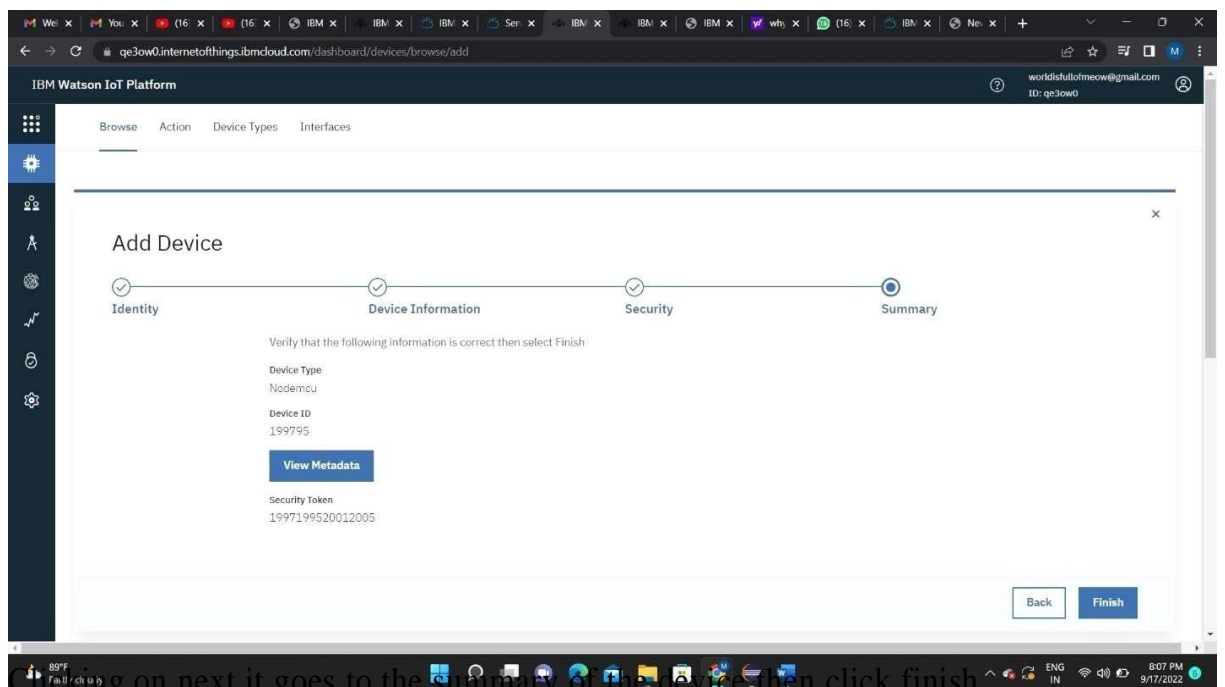
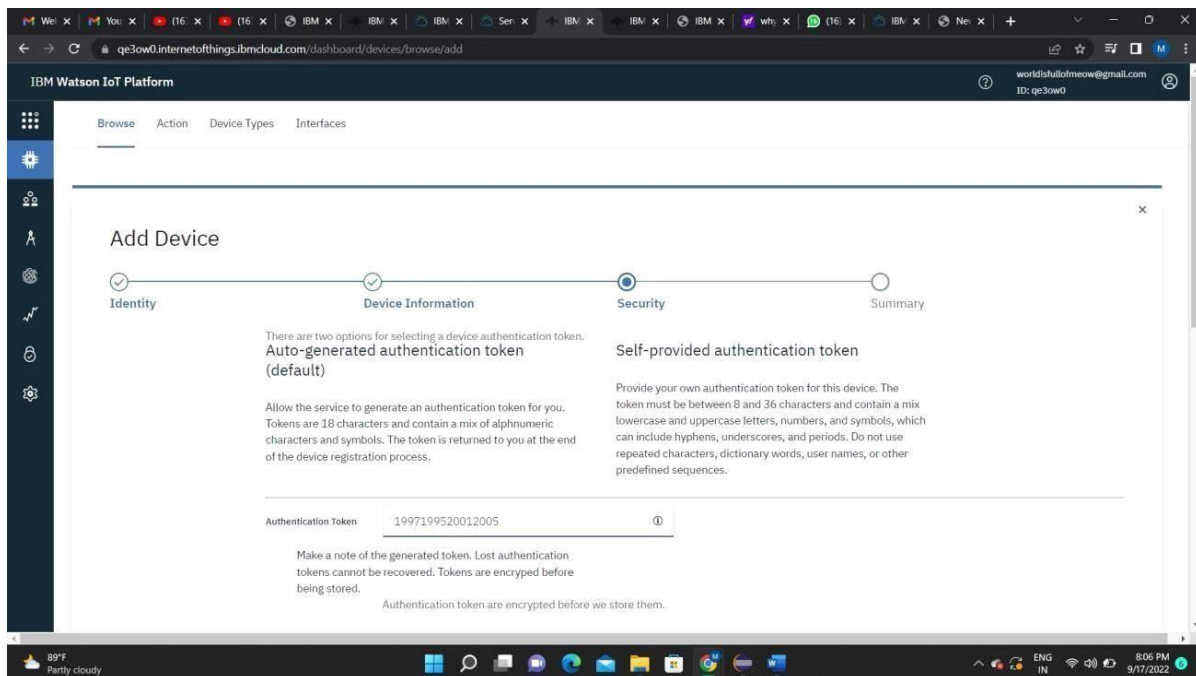
You can modify the default device information and enter more information about the device for identification purposes.

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

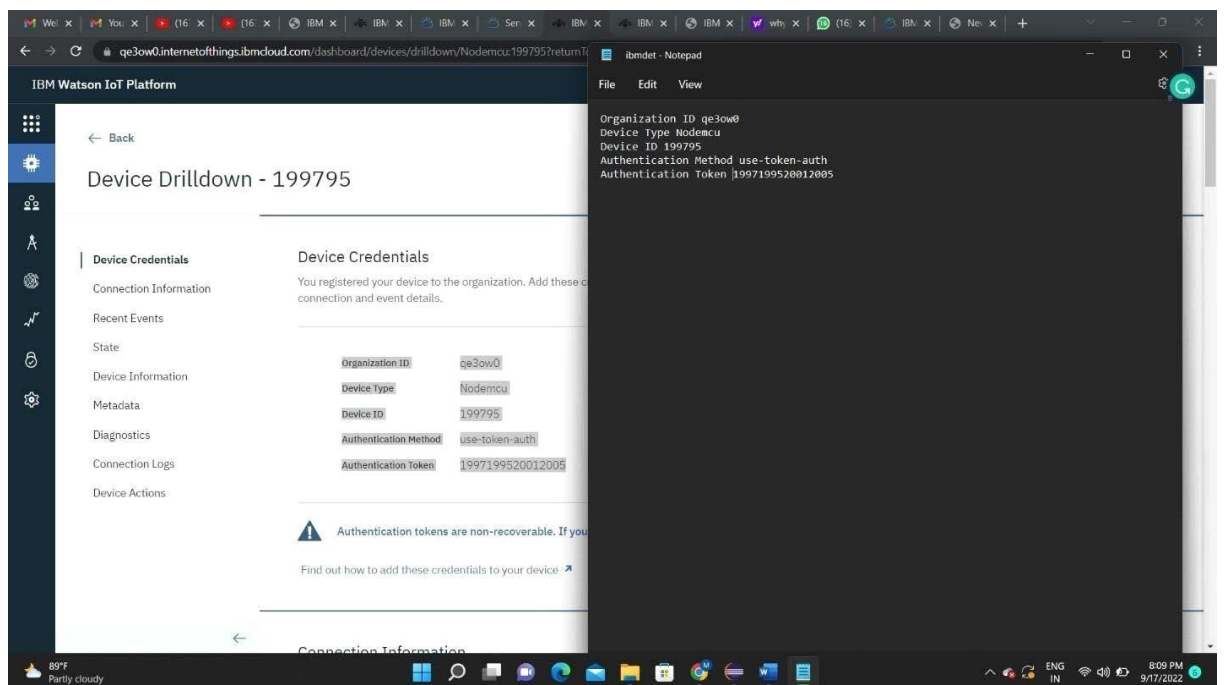
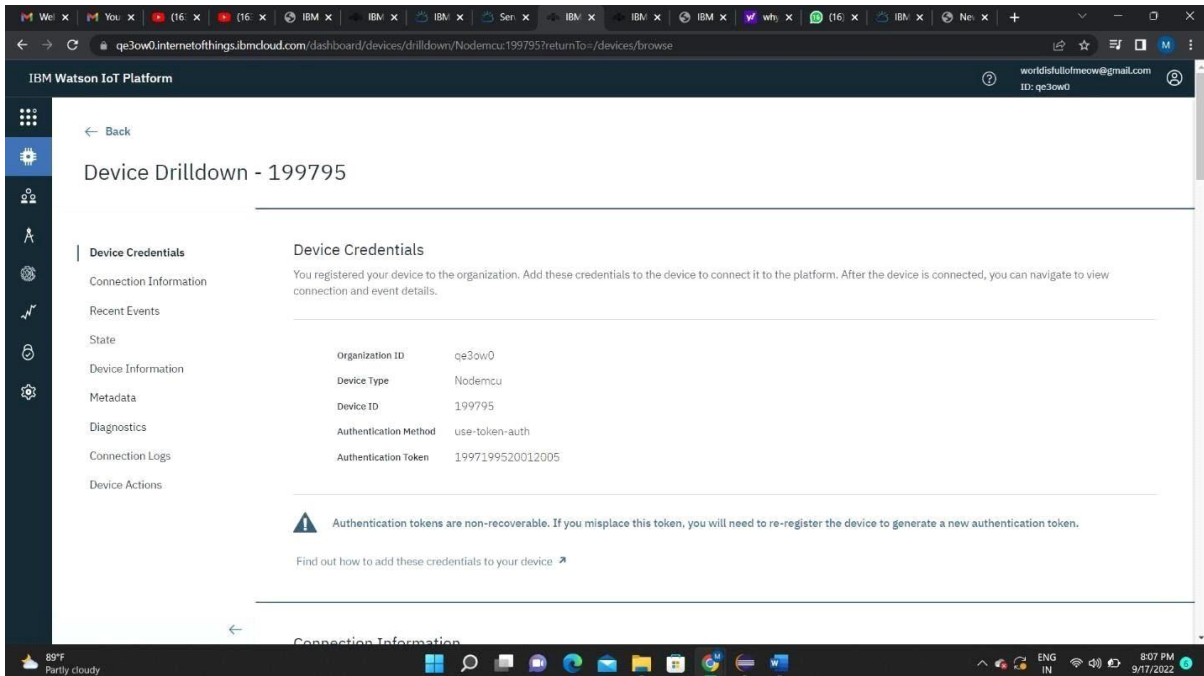
Add Metadata

Back Next

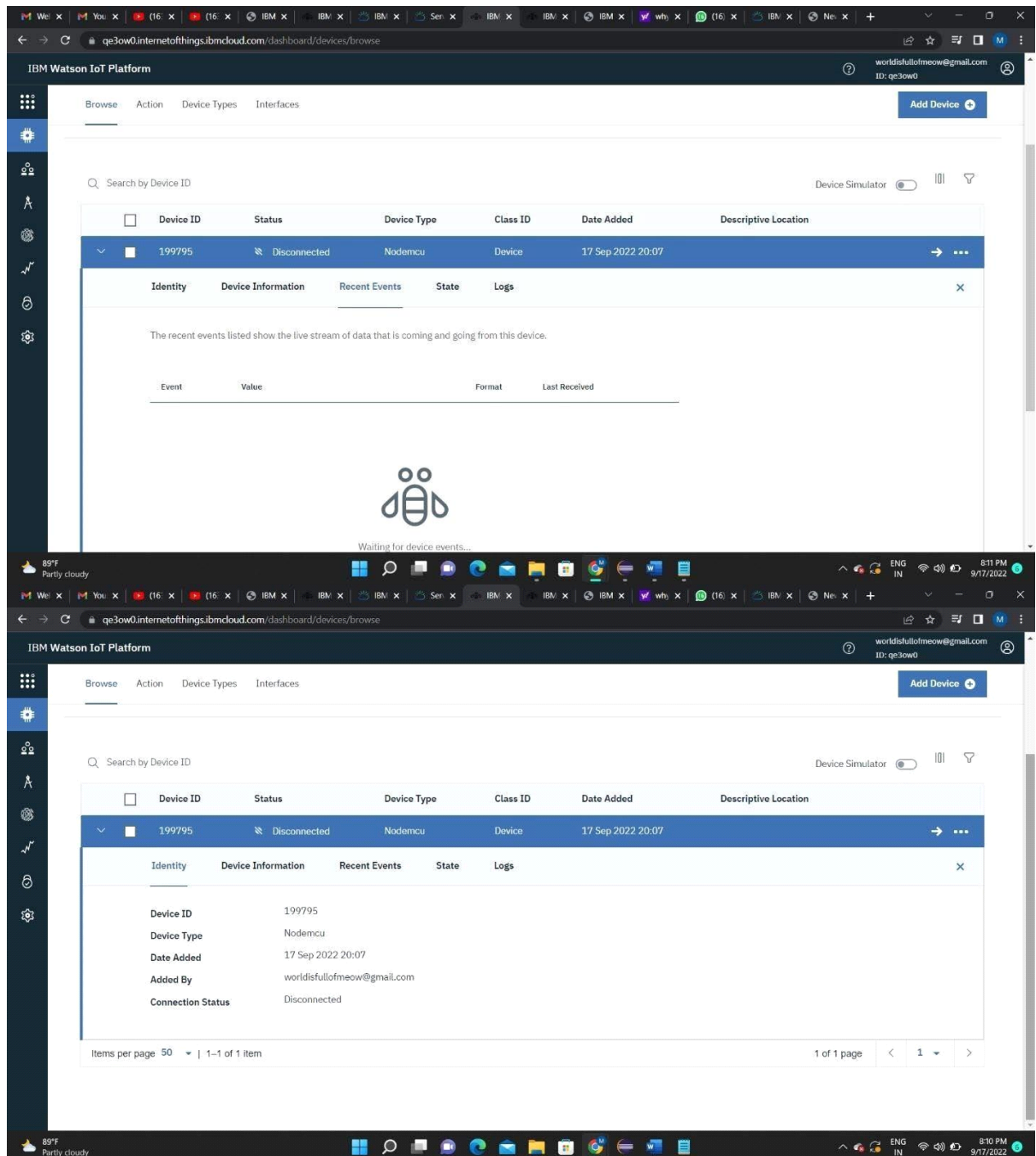
- This page to enter extra details and of the hardware
- Clicking next it goes to the security where we do authentication token id.



- Clicking on next it goes to the Summary of the device then click finish
- The device credentials will be displayed with all the details



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

- The Boards will display card for the project.

RESULT:

An IBM Watson cloud for IoT and a device is created