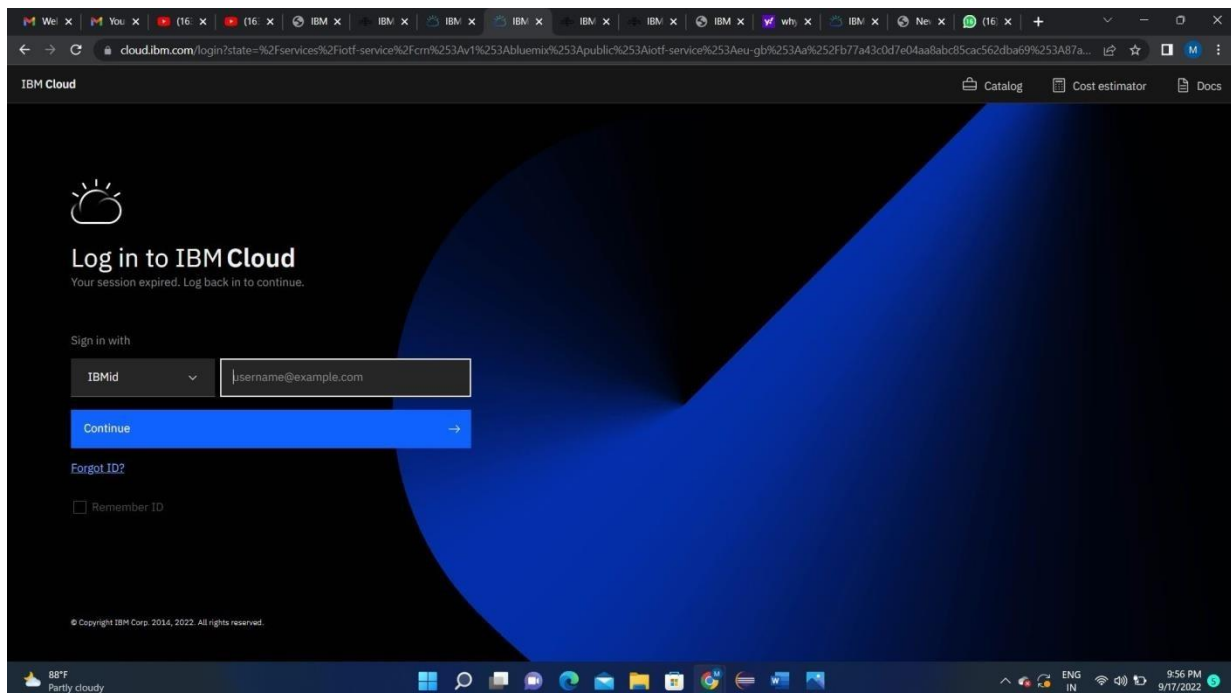


## CREATE IBM WATSON IOT PLATFORM AND DEVICE

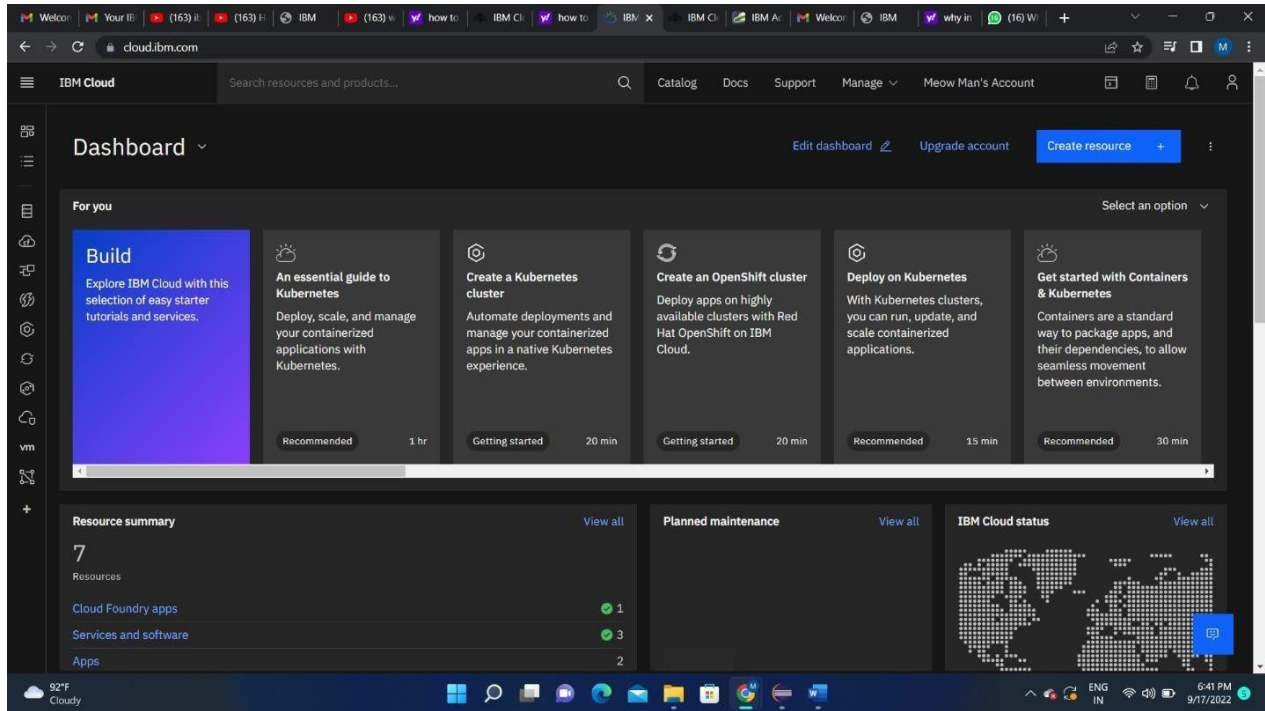
<b>Date</b>	<b>22-10-2022</b>
<b>Team ID</b>	<b>PNT2022TMID06420</b>
<b>Project Name</b>	<b>Project - IOT based safety gadget for child safety monitoring and notification</b>
<b>Maximum Marks</b>	<b>4 Marks</b>
<b>Submitted By</b>	<b>Madhubala.M Gokulapriya.M</b>

## STEPS:

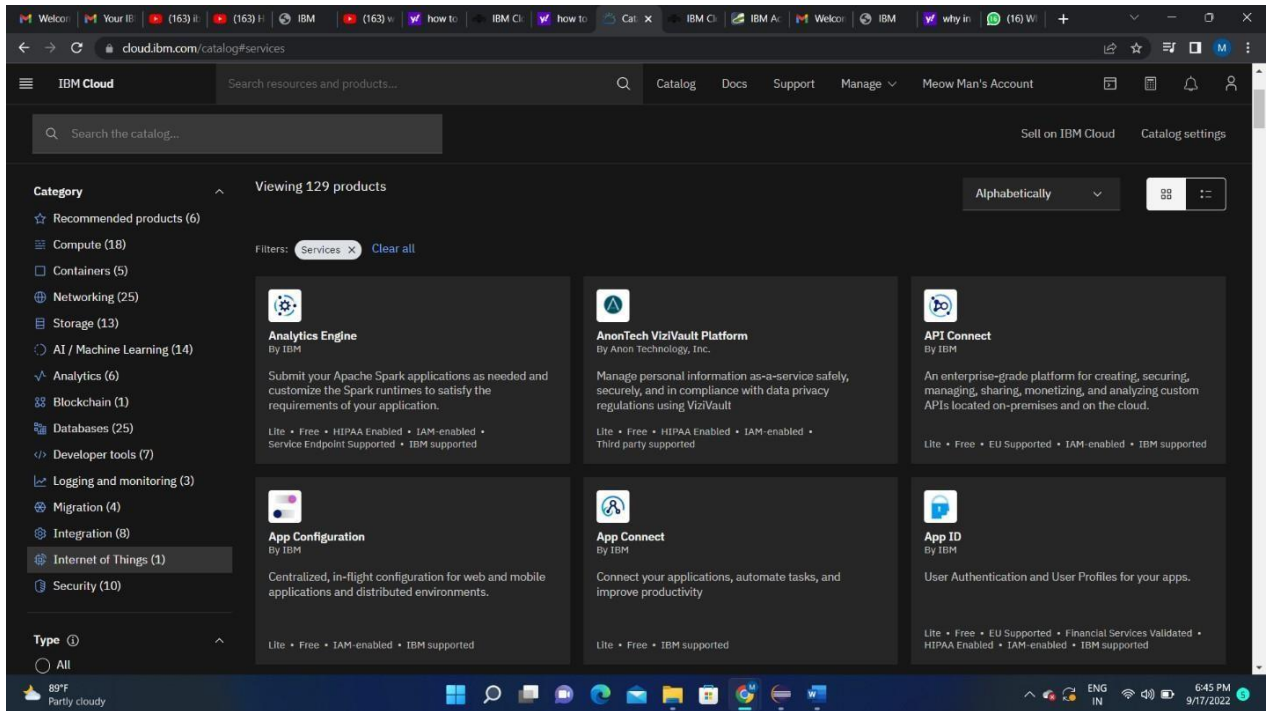
1. Firstly create an IBM cloud account with IBMid and password



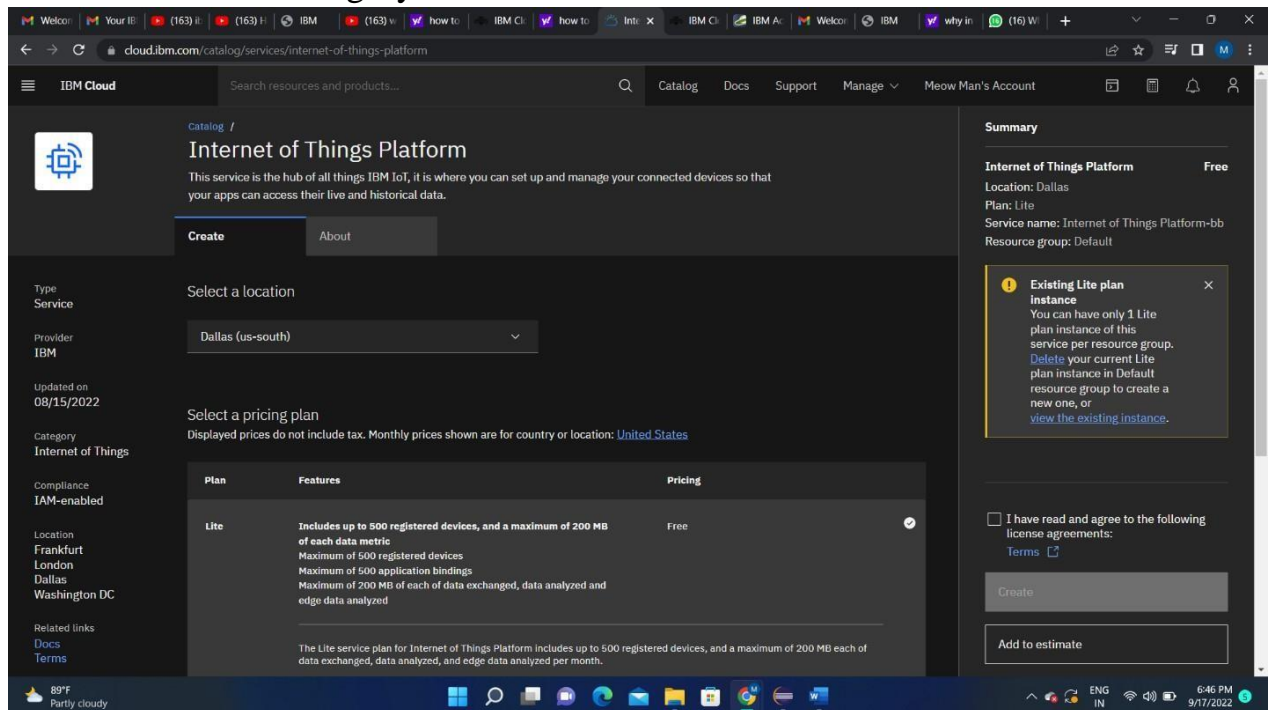
## 2. Home page of IBM cloud



## 3. Click on the catalog on the top



Click on IoT in the category mentioned



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

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	<p>Includes up to 500 registered devices, and a maximum of 200 MB of each data metric</p> <p>Maximum of 500 registered devices</p> <p>Maximum of 500 application bindings</p> <p>Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed</p>	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

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

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

89°F  
Partly cloudy

ENG IN 6:47 PM 9/17/2022

5.

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 a table with two plans: 'Lite' and 'Free'. The 'Lite' plan is selected, showing features like 'Includes up to 500 registered devices, and a maximum of 200 MB of each data metric'. A warning message on the right 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' section on the right shows the service name as 'Internet of Things Platform-2w' and the resource group as 'Default'. The 'Create' button is visible at the bottom right.

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
Free		

The screenshot shows the 'Configure your resource' section of the IBM Cloud catalog page for the 'Internet of Things Platform'. The 'Service name' field is set to 'Internet of Things Platform-child\_safety'. The 'Select a resource group' dropdown menu shows 'Default' selected. The 'Tags' field is set to 'Examples: env:dev, version-1'. The 'Access management tags' field is set to 'Examples: access:dev, proj:version-1'. The 'Summary' section on the right shows the service name as 'Internet of Things Platform-child\_safety' and the resource group as 'Default'. The 'Create' button is visible at the bottom right.

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
Free		

6.

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, with sub-tabs for 'Plan' and 'Connections'. 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 'Free' pricing point.

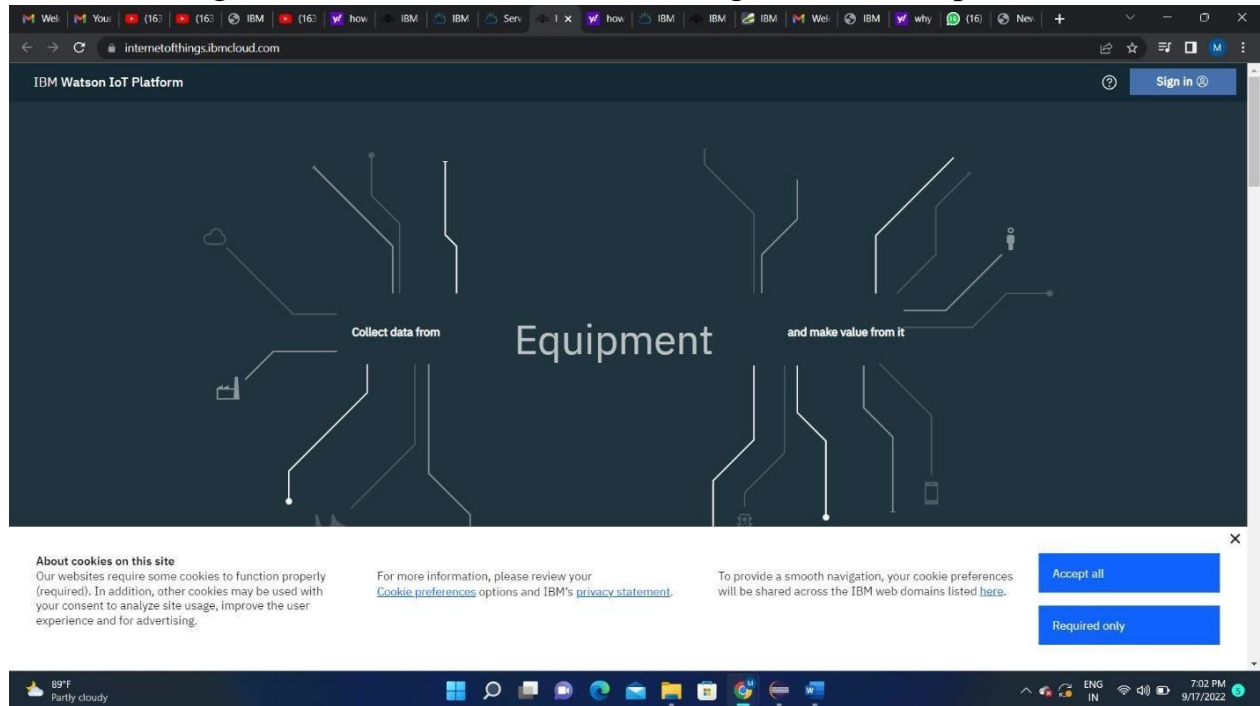
The screenshot shows the IBM Cloud IoT Platform console with the 'Plan' tab selected. The main content area displays the 'Current plan' as 'Lite' with a list of features: 'Includes up to 500 registered devices, and a maximum of 200 MB of each data metric', 'Maximum of 500 registered devices', 'Maximum of 500 application bindings', and 'Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed'. To the right, the '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.

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

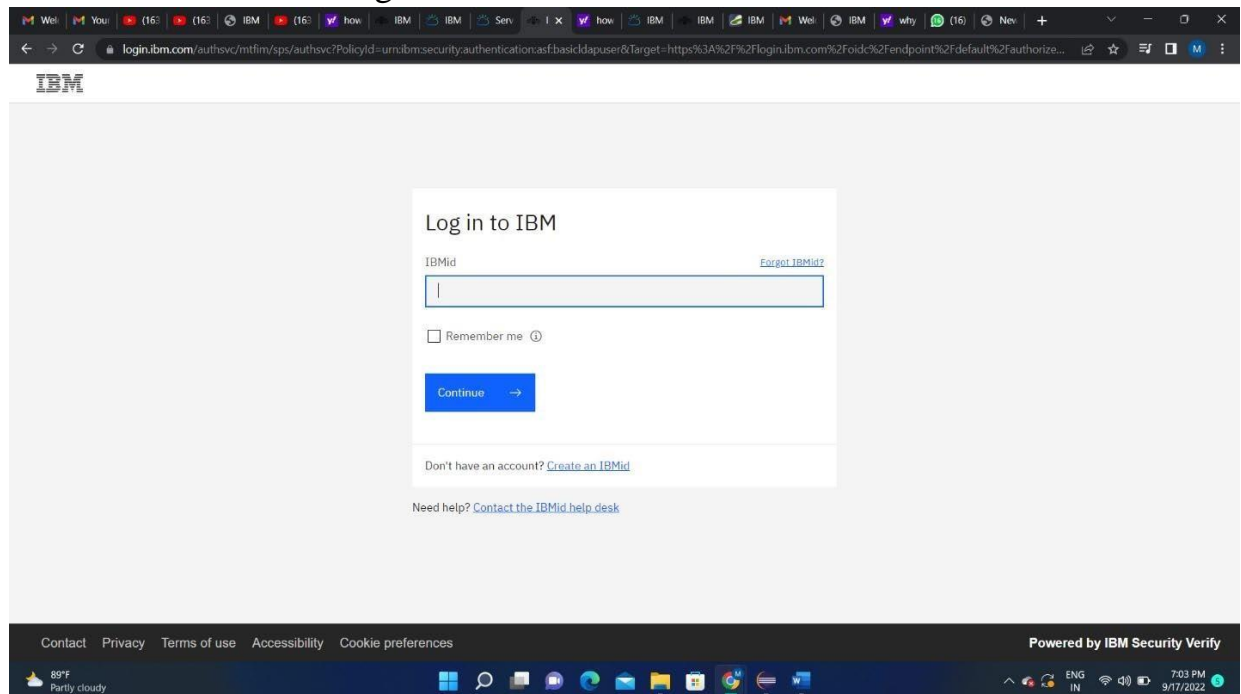


7.

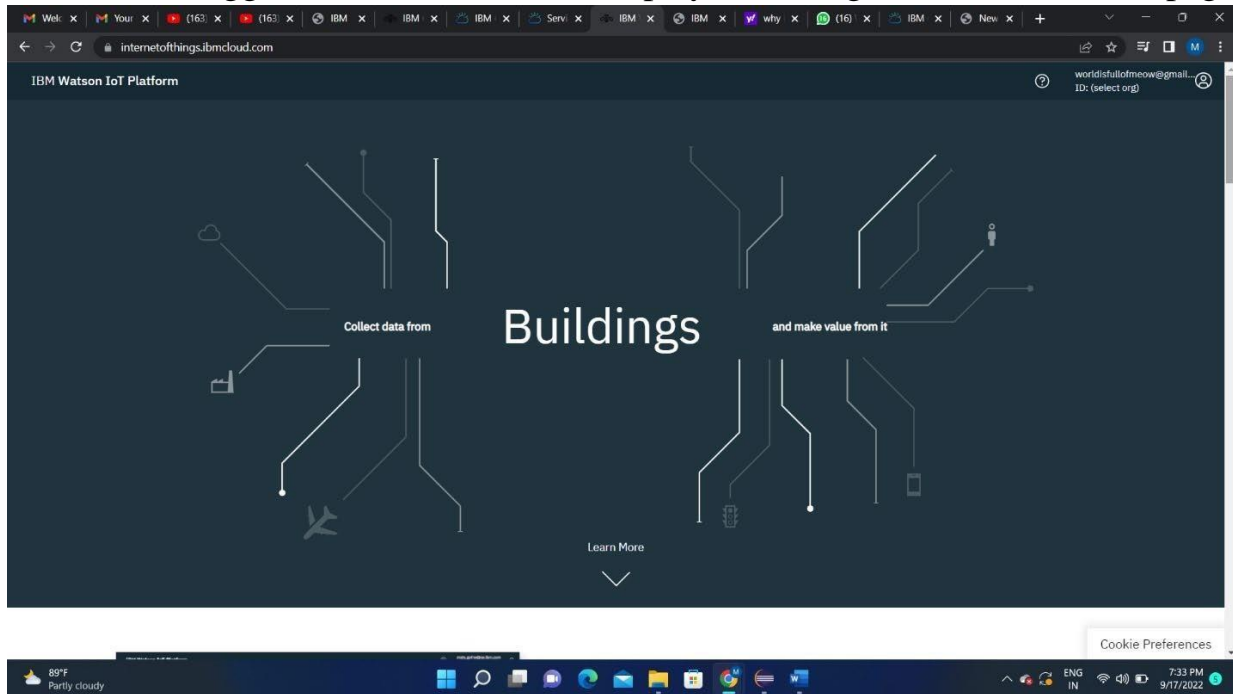
Clicking on the launch button in the manage tab, it will open to this



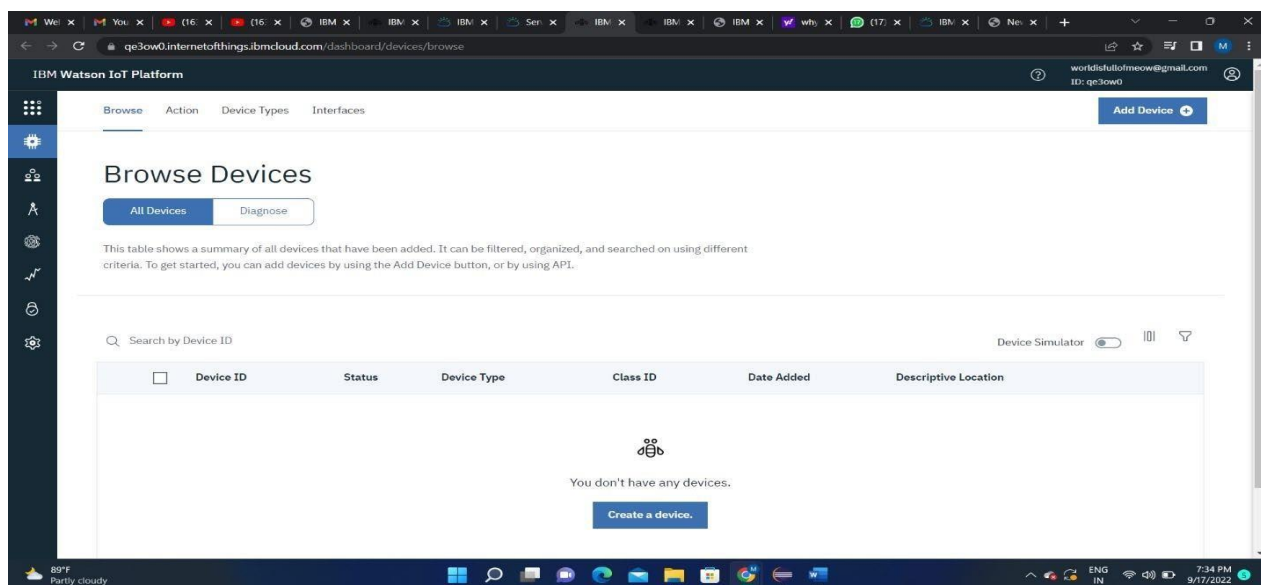
8. Enter the details to sign in to the Watson Cloud to create a device



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

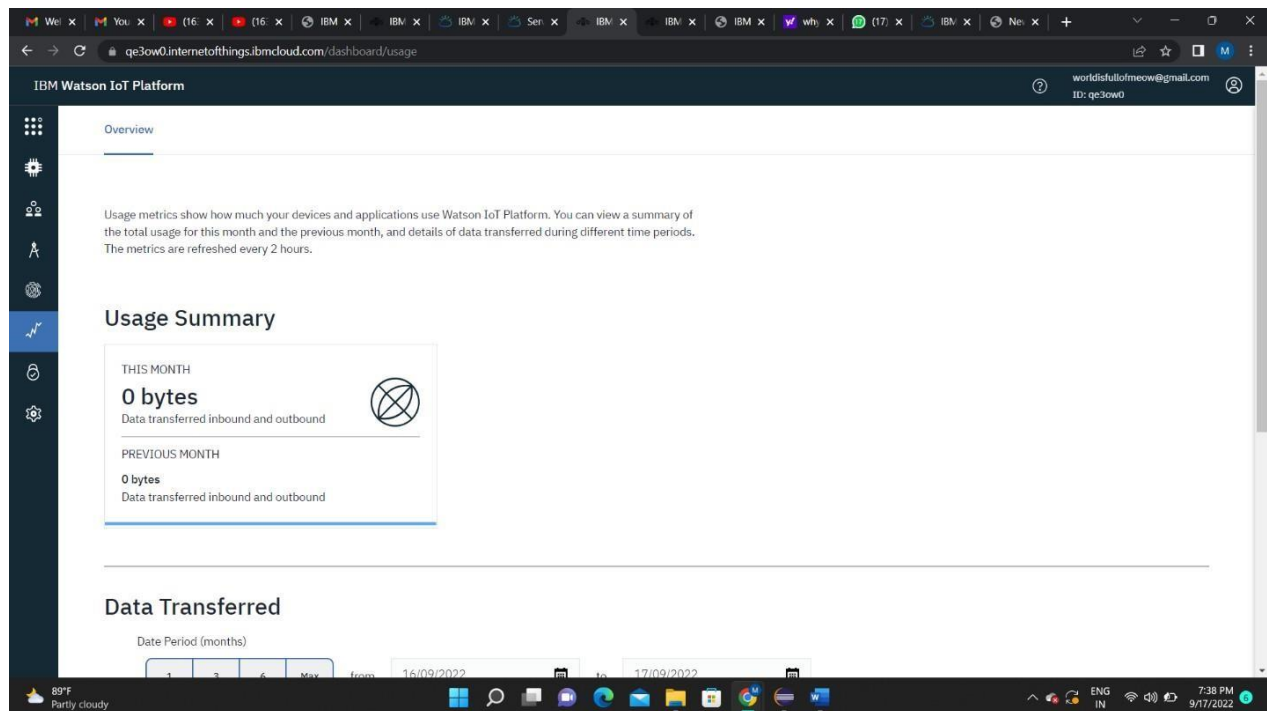


10. And again clicking on the launch button will open this tab, the device will help in the creation of the devices, the addition of devices, and the display of details of the devices





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



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

The screenshot shows the 'Browse Members' page in the IBM Watson IoT Platform. The page displays a table of members. The table has columns for Email Address, Name, Role, Added By, and Expires. There is one member listed: worldisfulofmeow@gmail.com, worldisfulofmeow@gmail.com, Administrator. The page includes a search bar and an 'Add Members' button.

IBM Watson IoT Platform

Browse

+ Add Members

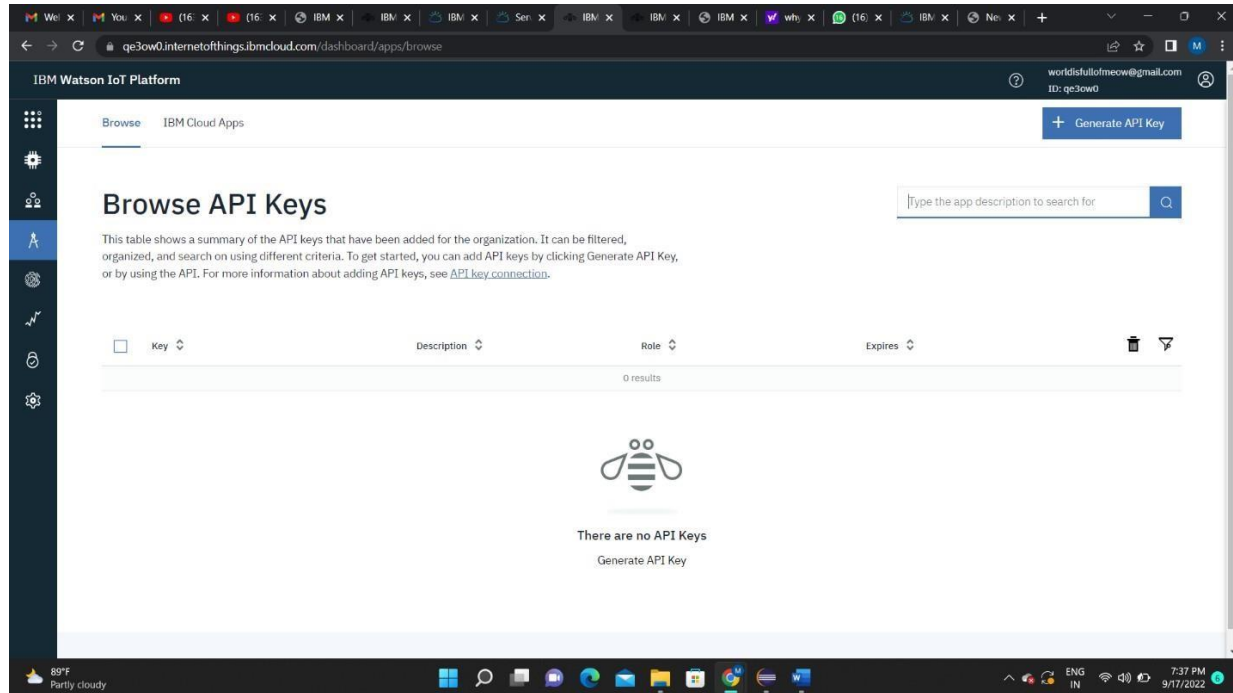
### Browse Members

Type the member email to search for

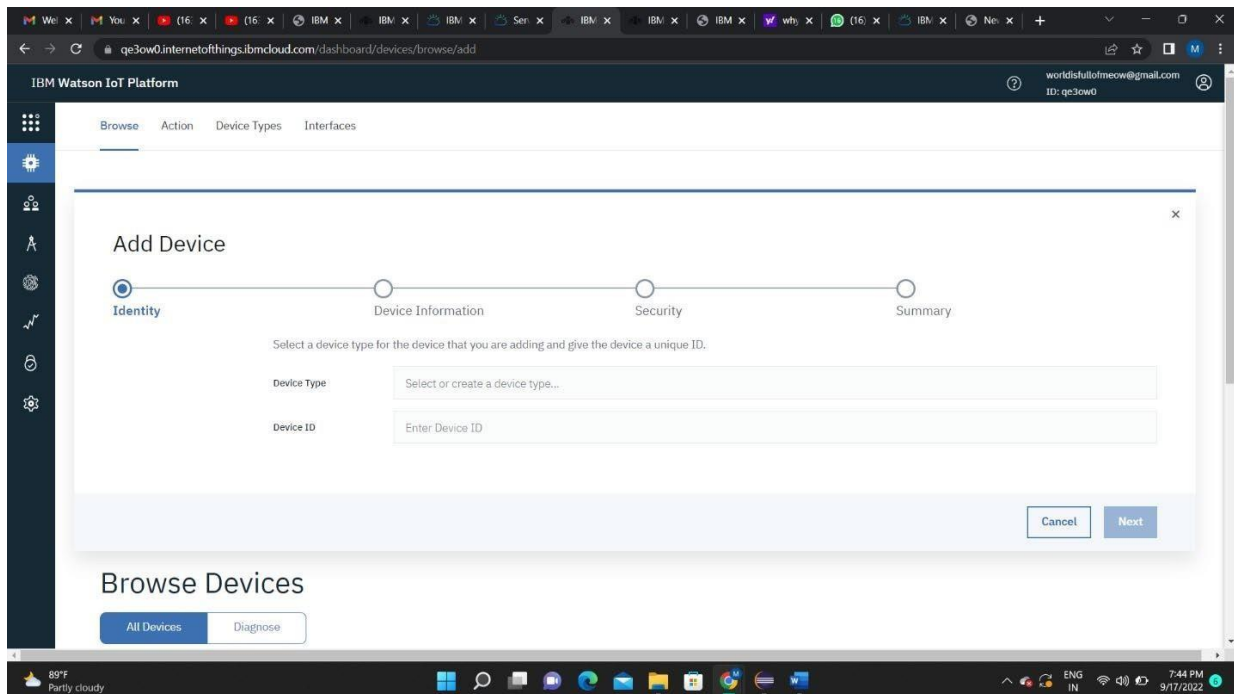
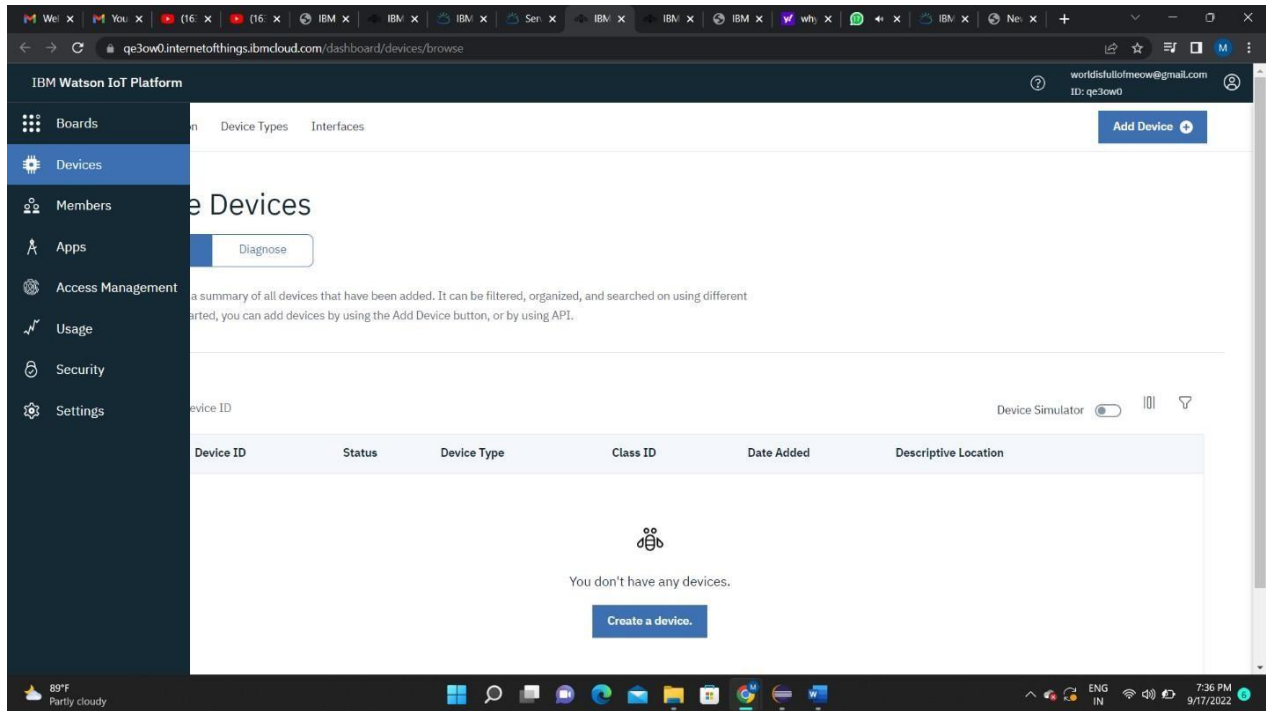
This table shows a summary of the members of the organization. It can be filtered, organized, and search on using different criteria. To get started, you can add members by clicking Add Members, or by using the API. For more information about members, see [Managing user access](#).

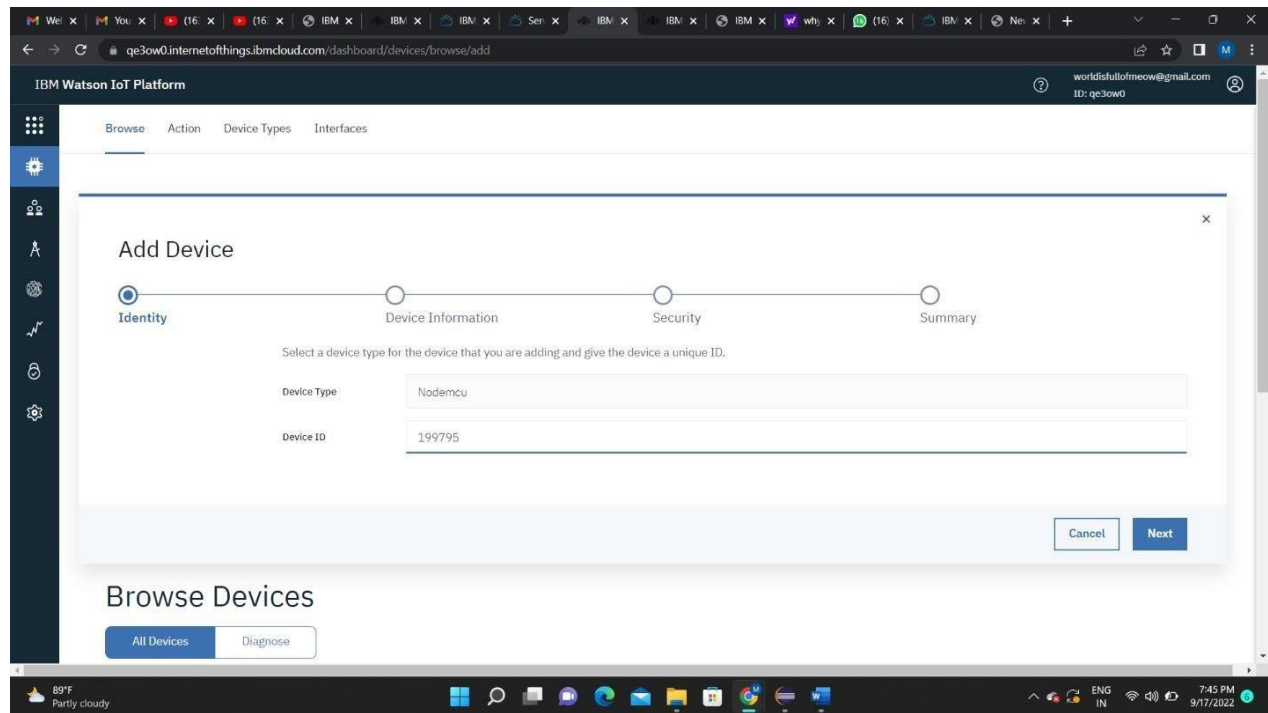
<input type="checkbox"/>	Email Address	Name	Role	Added By	Expires	
1 result						
<input type="checkbox"/>	worldisfulofmeow@gmail.com	worldisfulofmeow@gmail.com	Administrator	-	-	

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

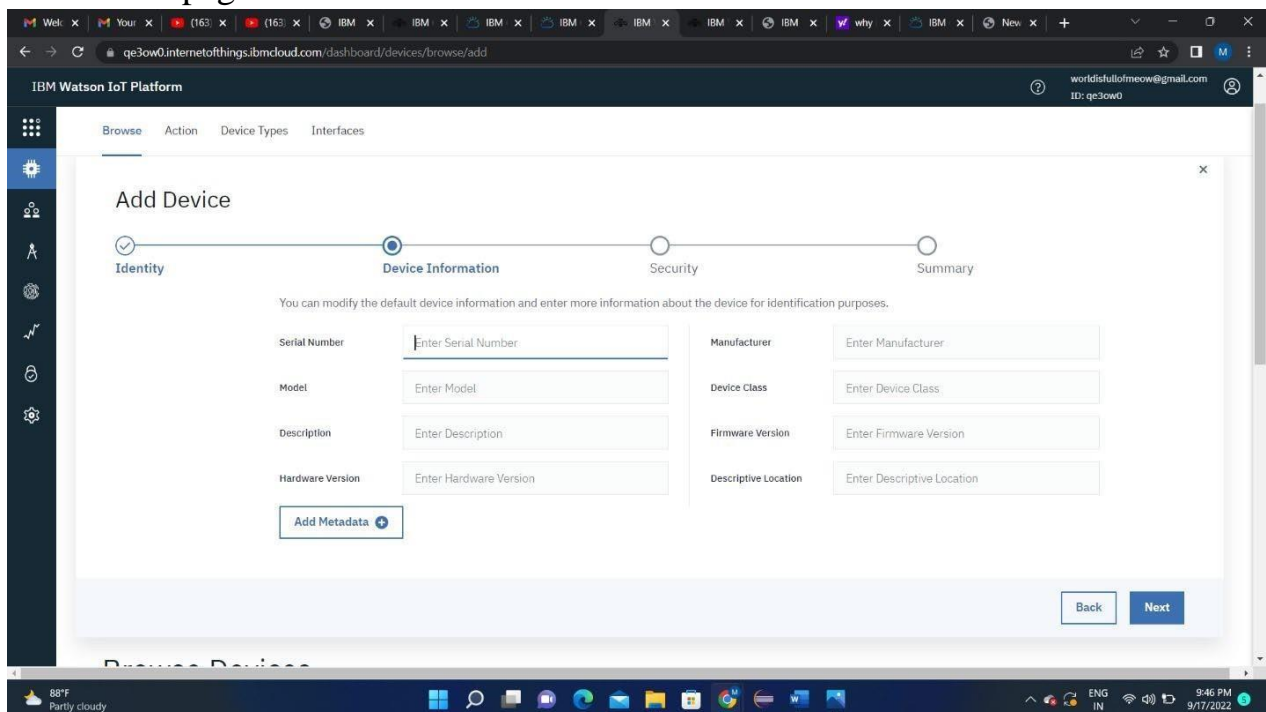


14. Click on the device tab and click on the add device button, then give the device type and device id and click next

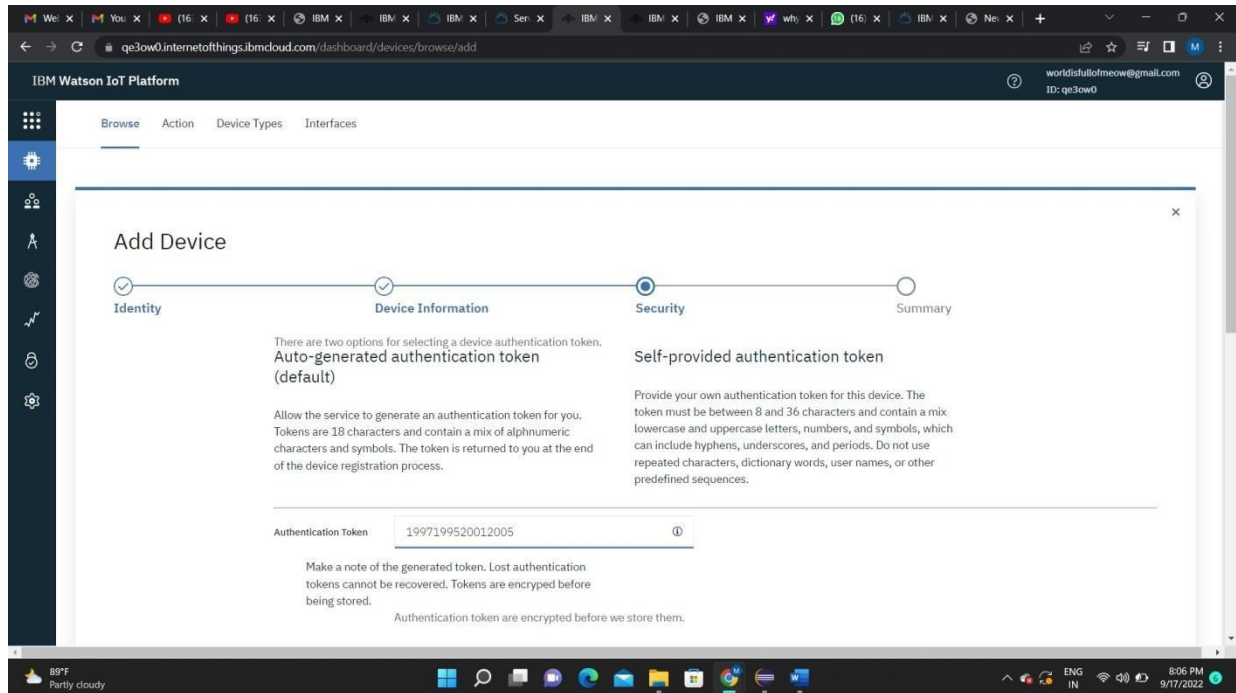




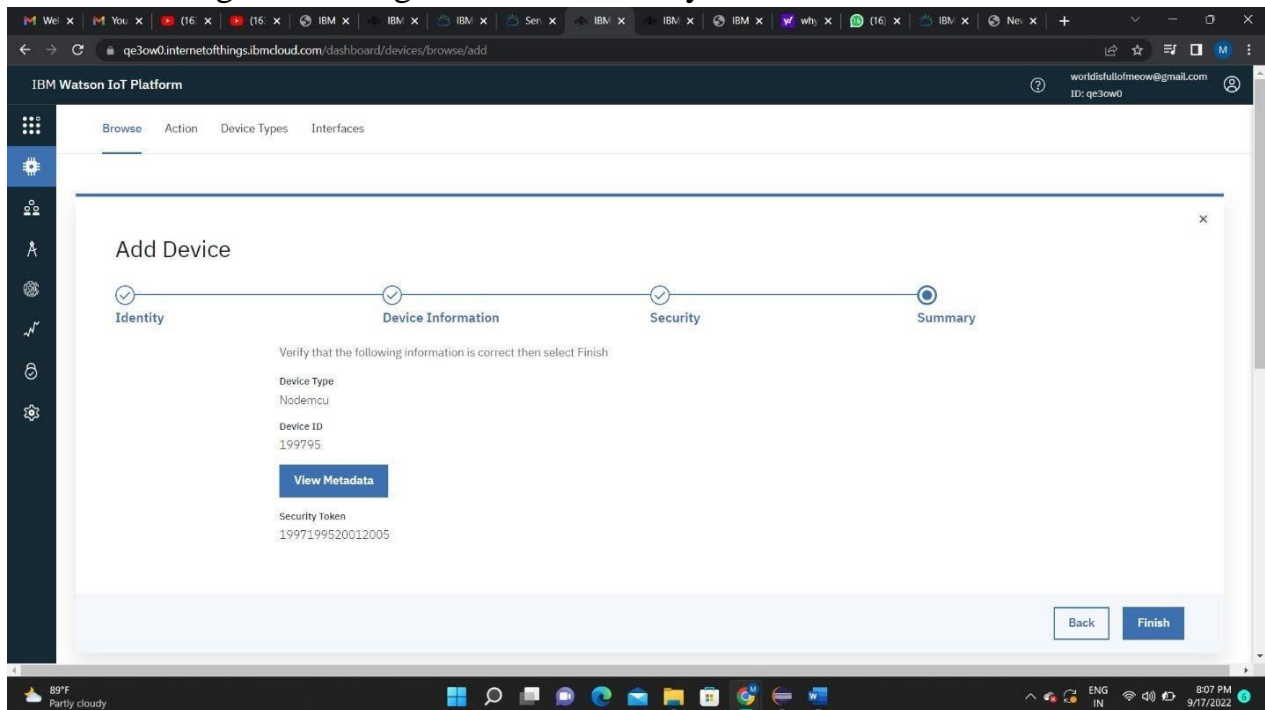
15. This page to enter extra details and of the hardware



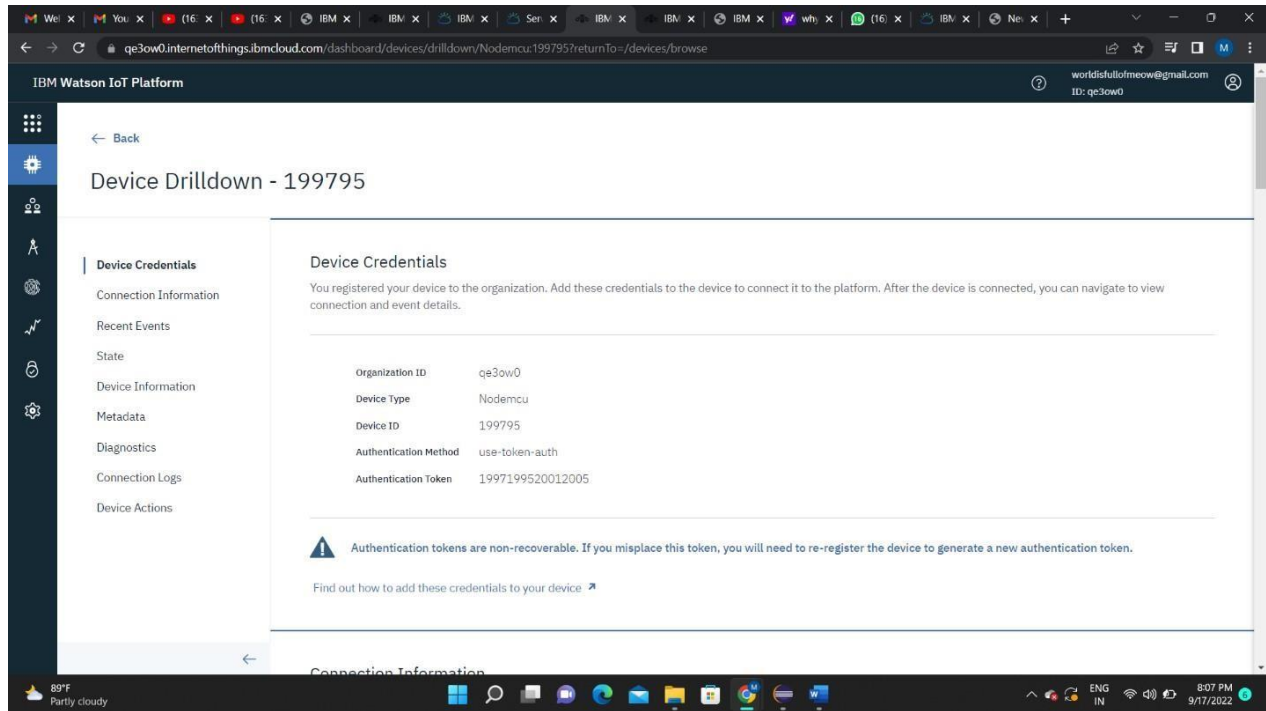
16. Clicking next it goes to the security where we do authentication token id.



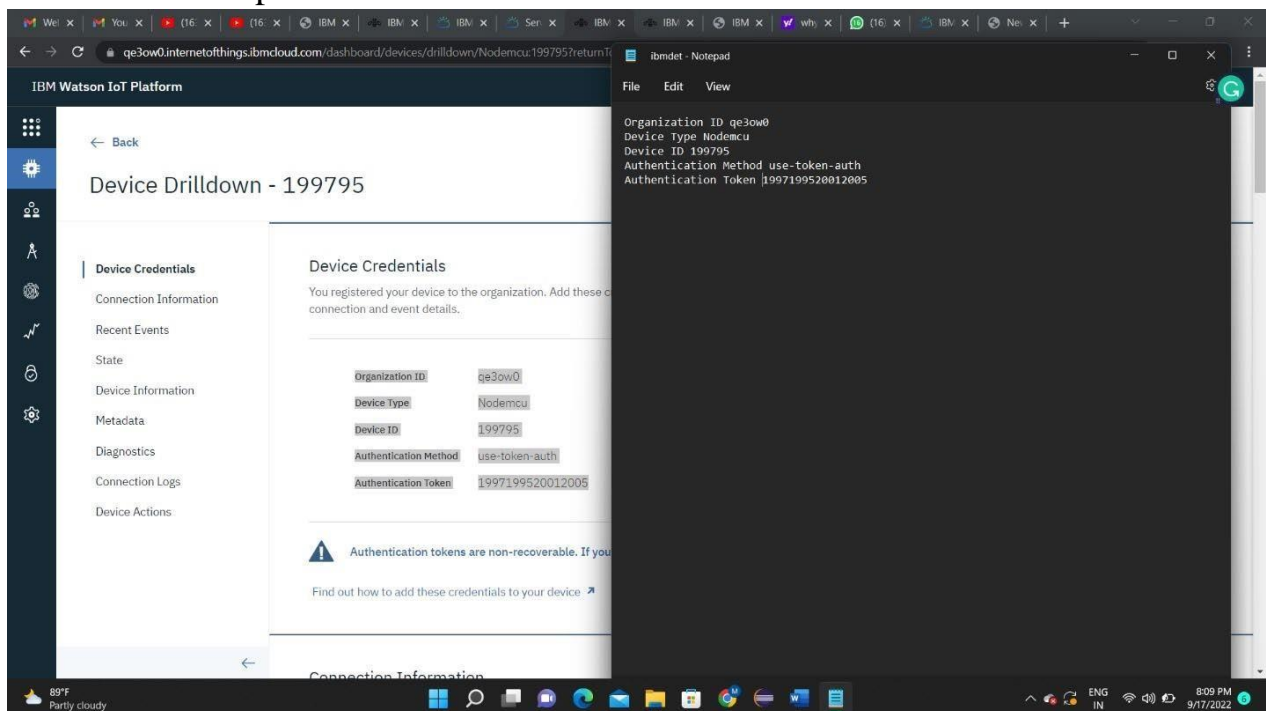
17. Clicking on next it goes to the summary of the device then click finish



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



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



20. 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 top screenshot shows the IBM Watson IoT Platform dashboard with the 'Recent Events' tab selected. The device is '199795', a 'Nodemcu' of type 'Device', added on '17 Sep 2022 20:07'. The 'Recent Events' section is empty, displaying the message 'The recent events listed show the live stream of data that is coming and going from this device.' Below this is a table with headers: Event, Value, Format, and Last Received.

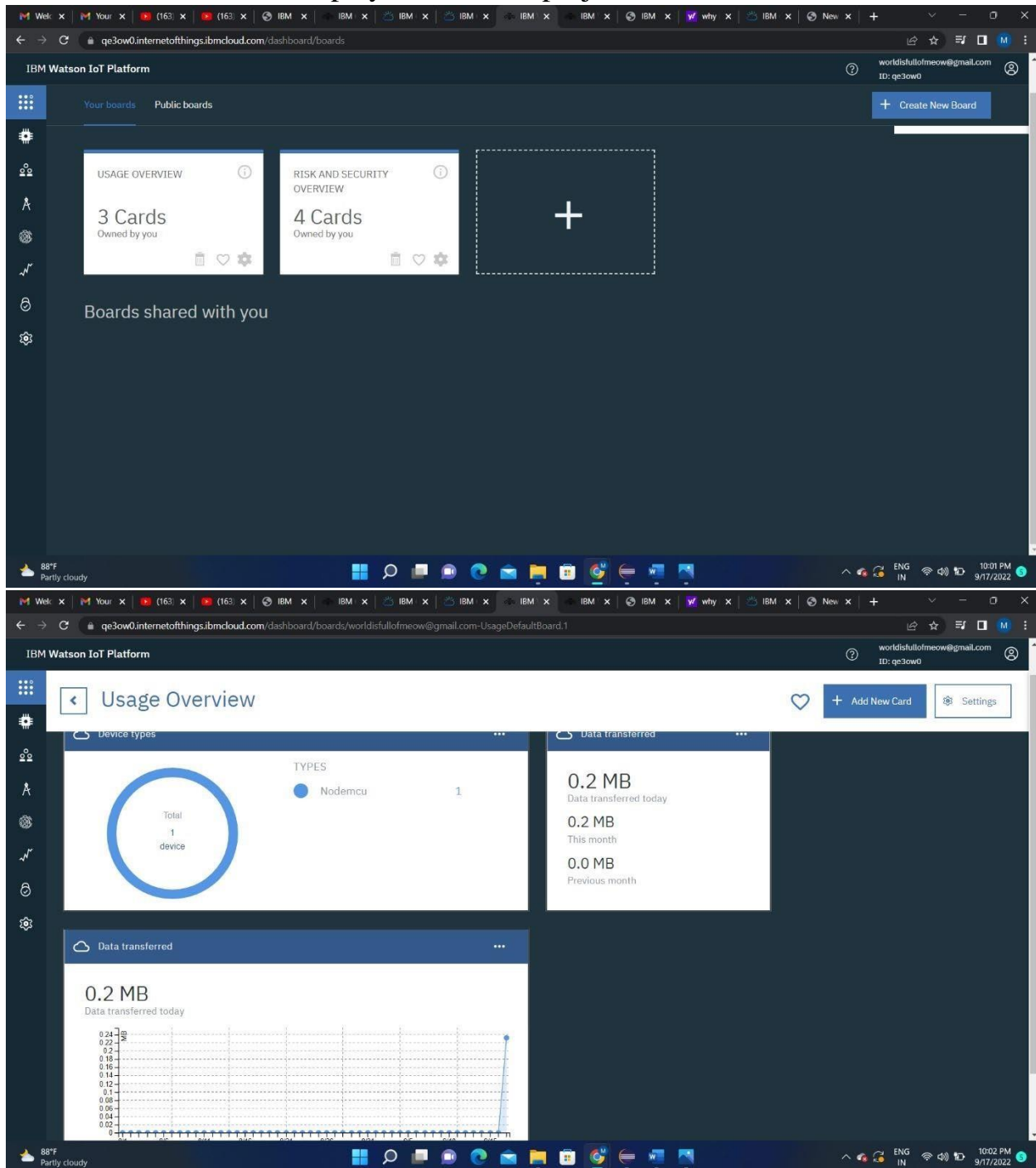
The bottom screenshot shows the same dashboard with the 'Device Information' tab selected. The device details are as follows:

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 device information section, it shows '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.

## 21. The Boards will display card for the project.



## RESULT:

An IBM Watson cloud for IoT and a device is created