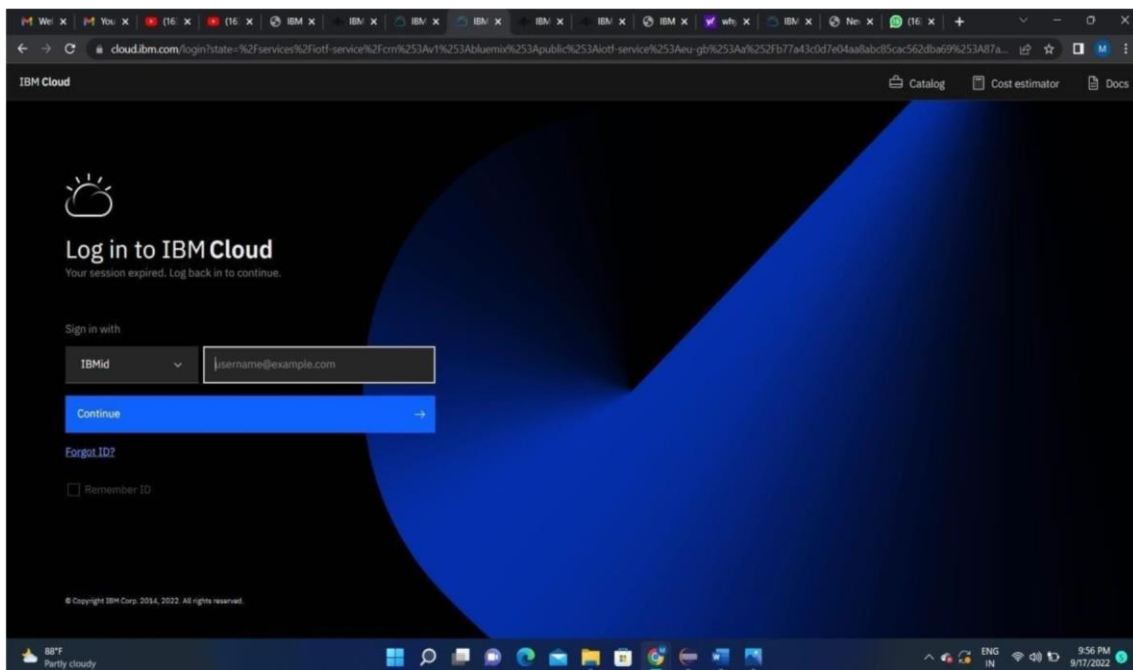


CREATE IBM WATSON IOT PLATFORM AND DEVICE

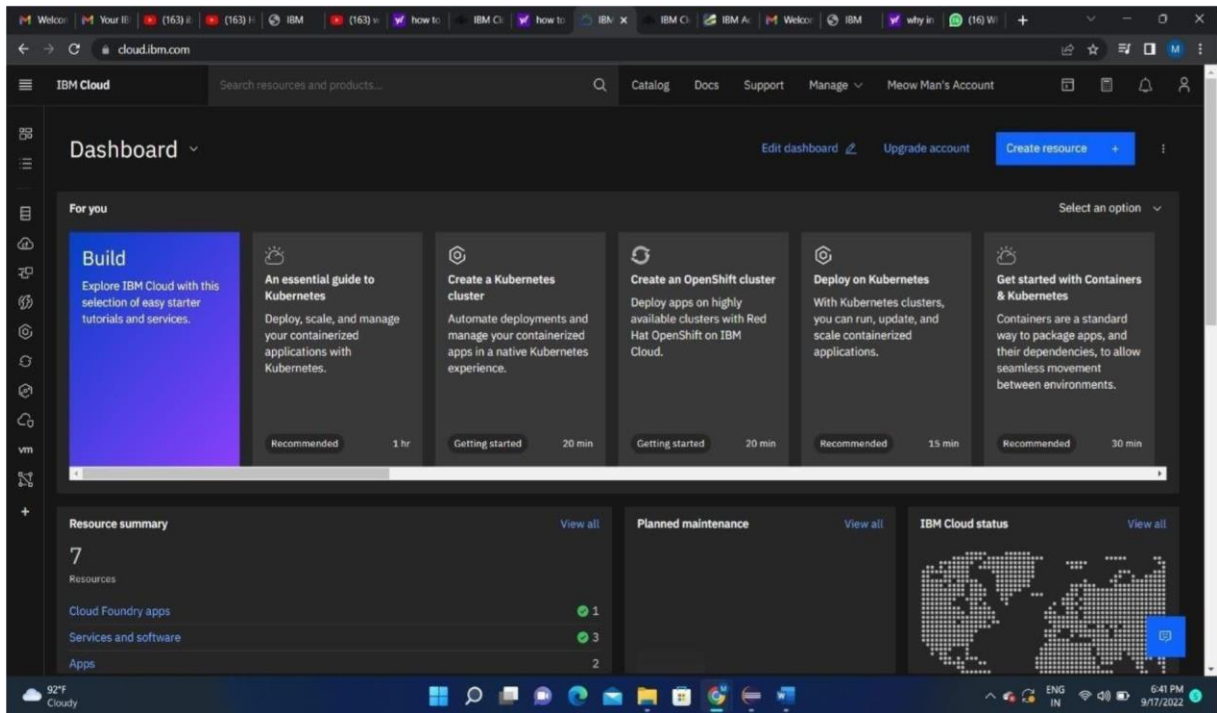
Date	22-10-2022
Team ID	PNT2022TMID21839
Project Name	Smart solution for Railways
Maximum Marks	4 Marks
Submitted By	Sowmiya.P Sivanantham.P Sasikala.A Reshmaja.K.Ramesh

STEPS:

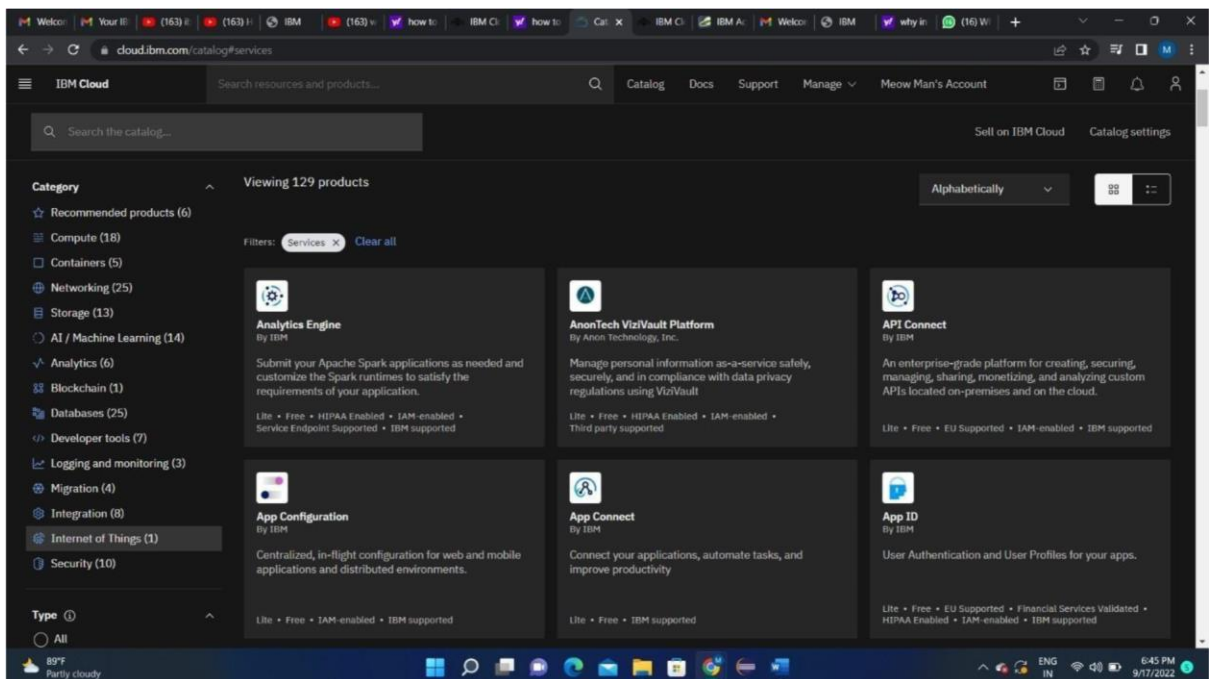
1. Firstly create an IBM cloud account with IBMid and password



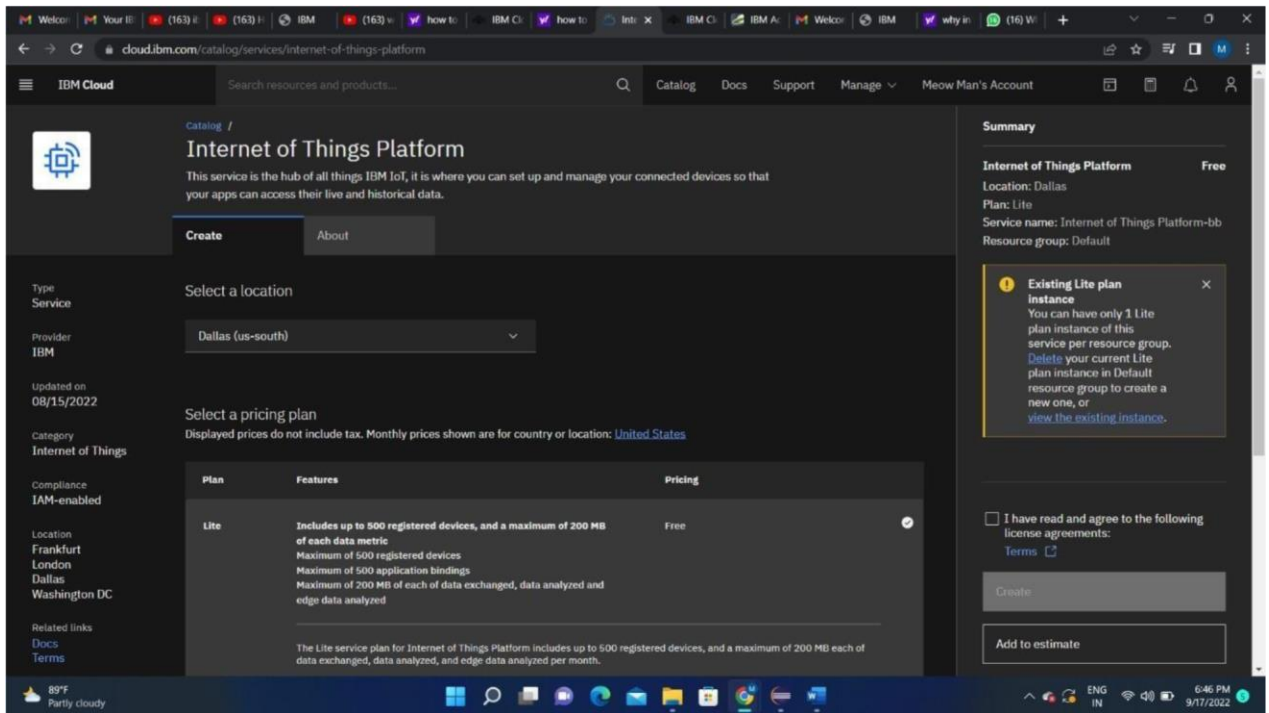
2. Home page of IBM cloud



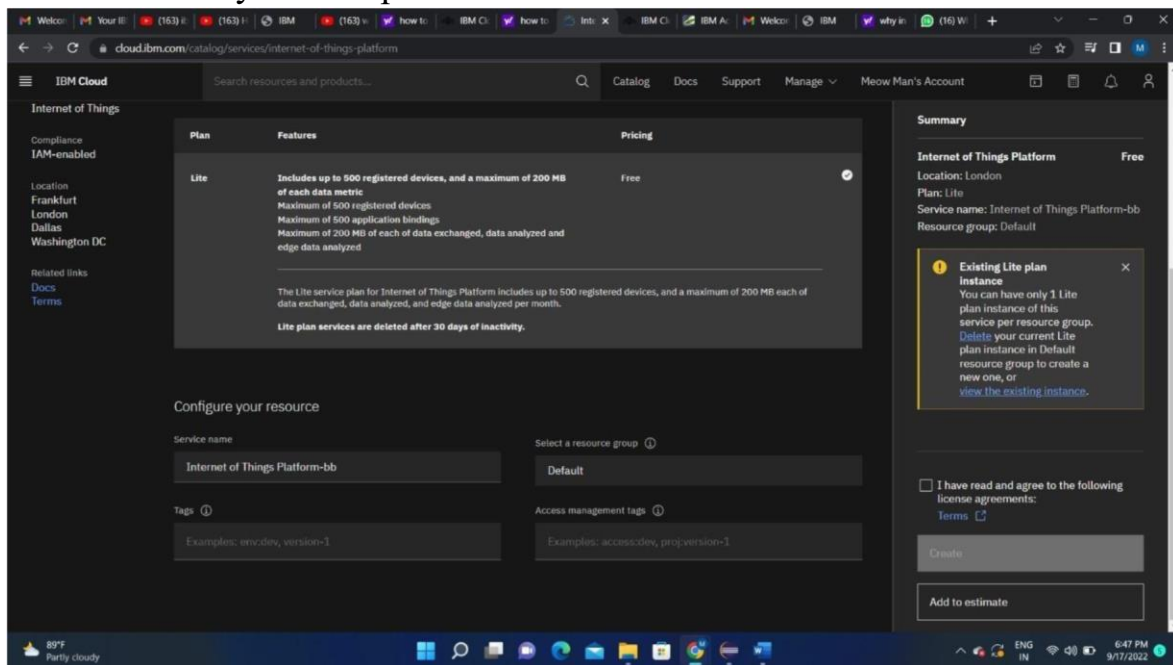
3. Click on the catalog on the top



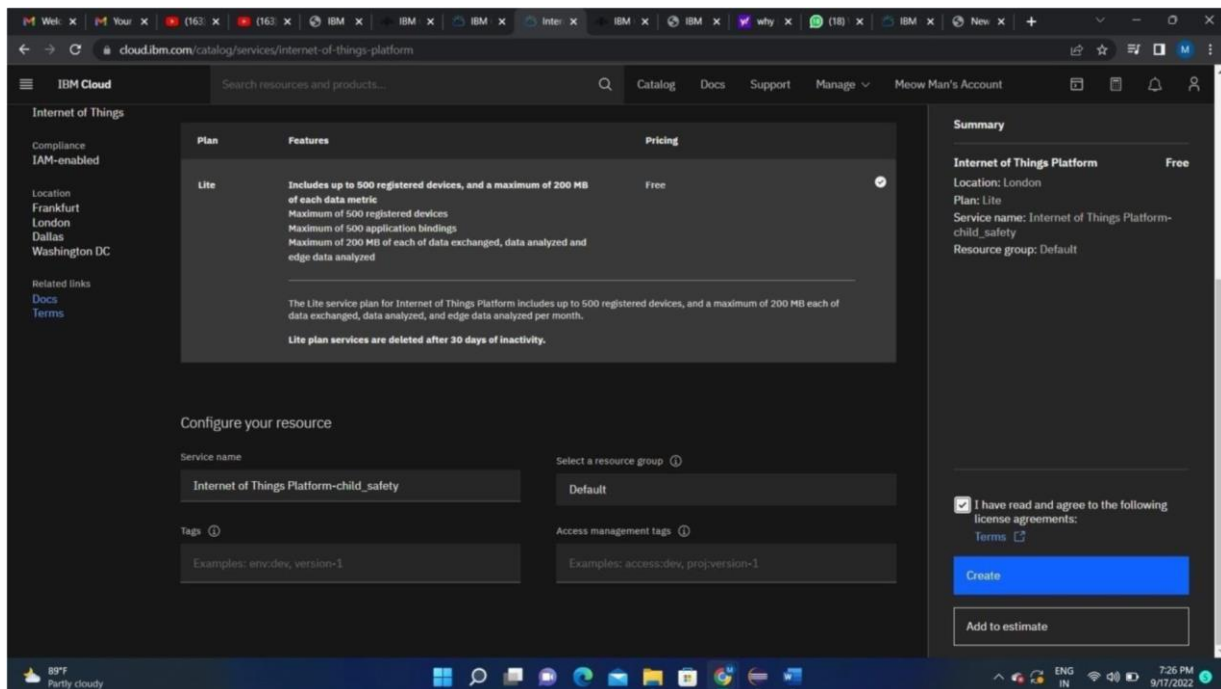
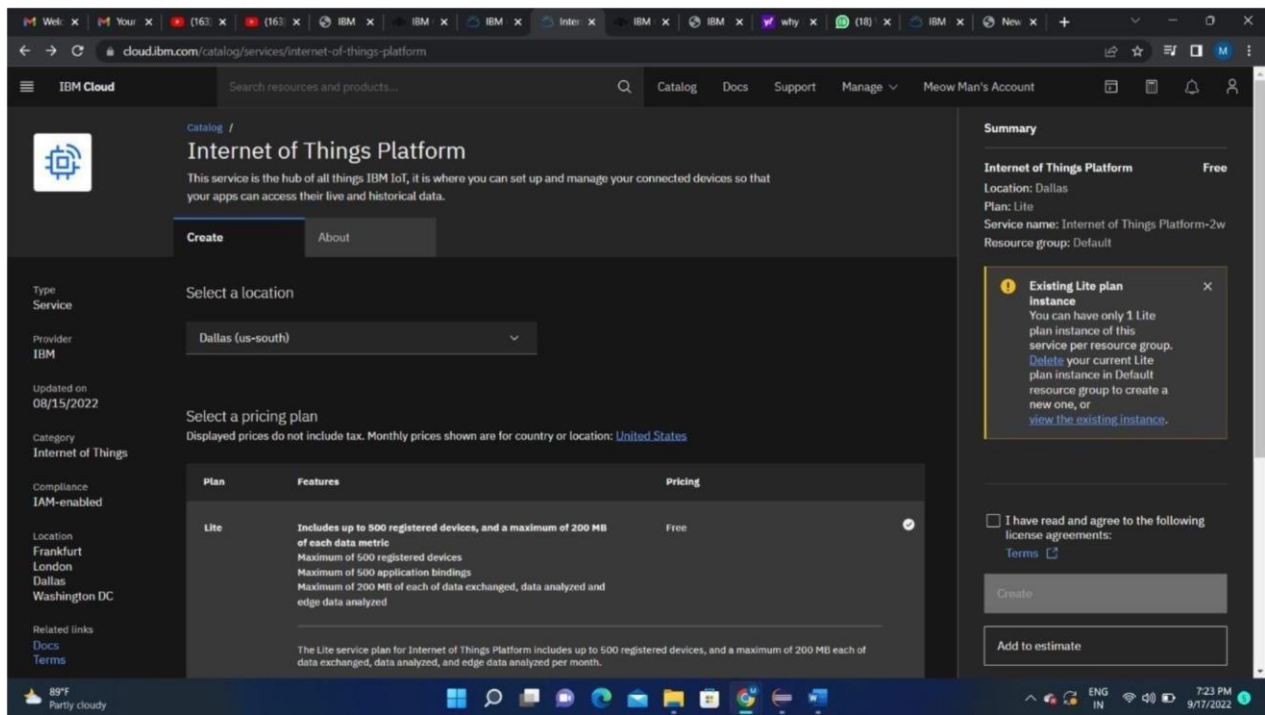
Click on IoT in the category mentioned



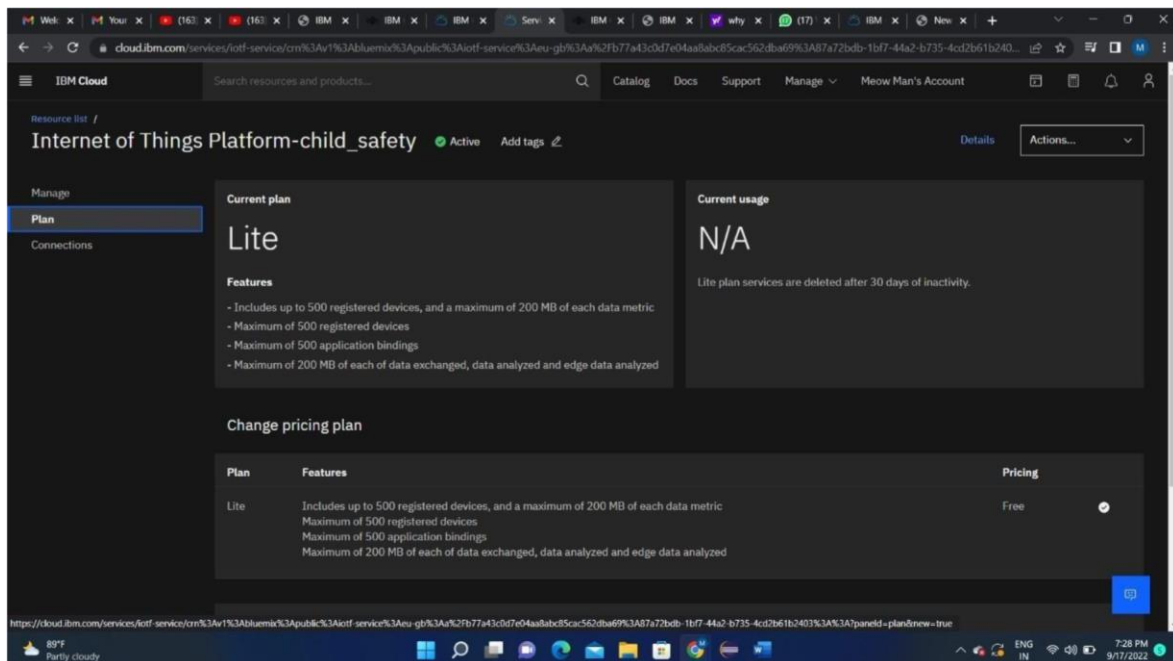
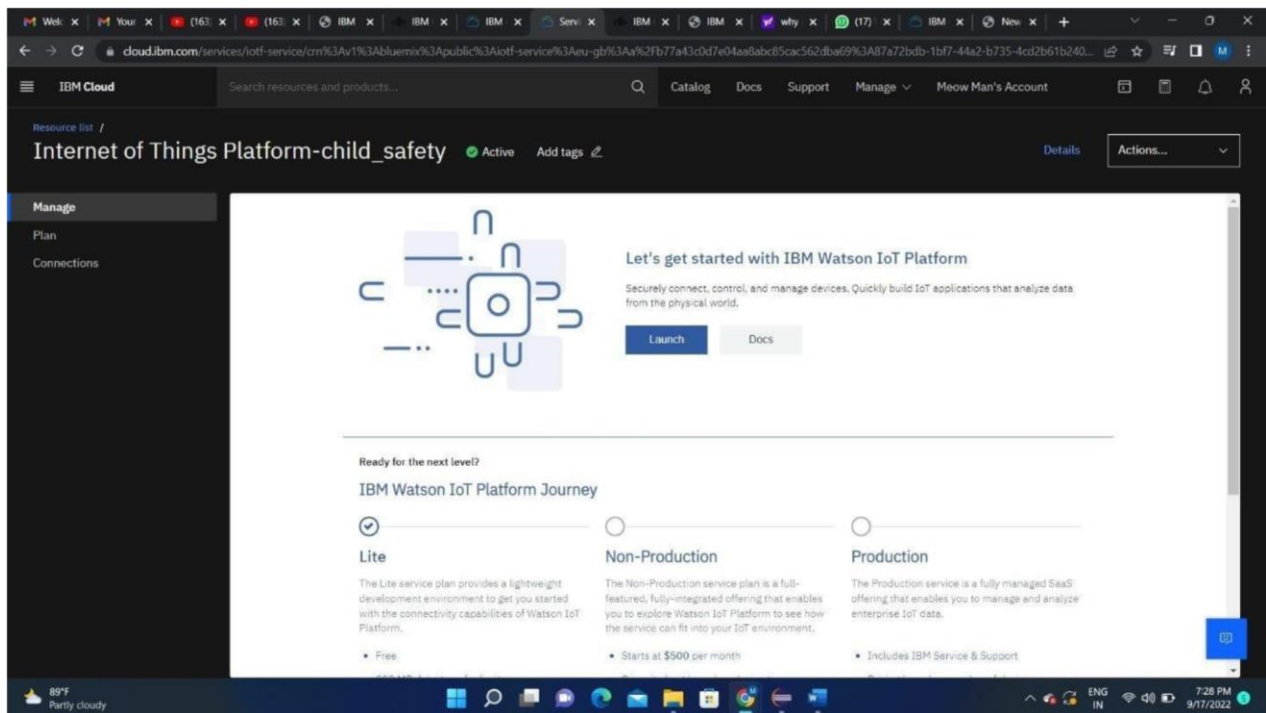
4. If already a lite is present delete it else u can't create another



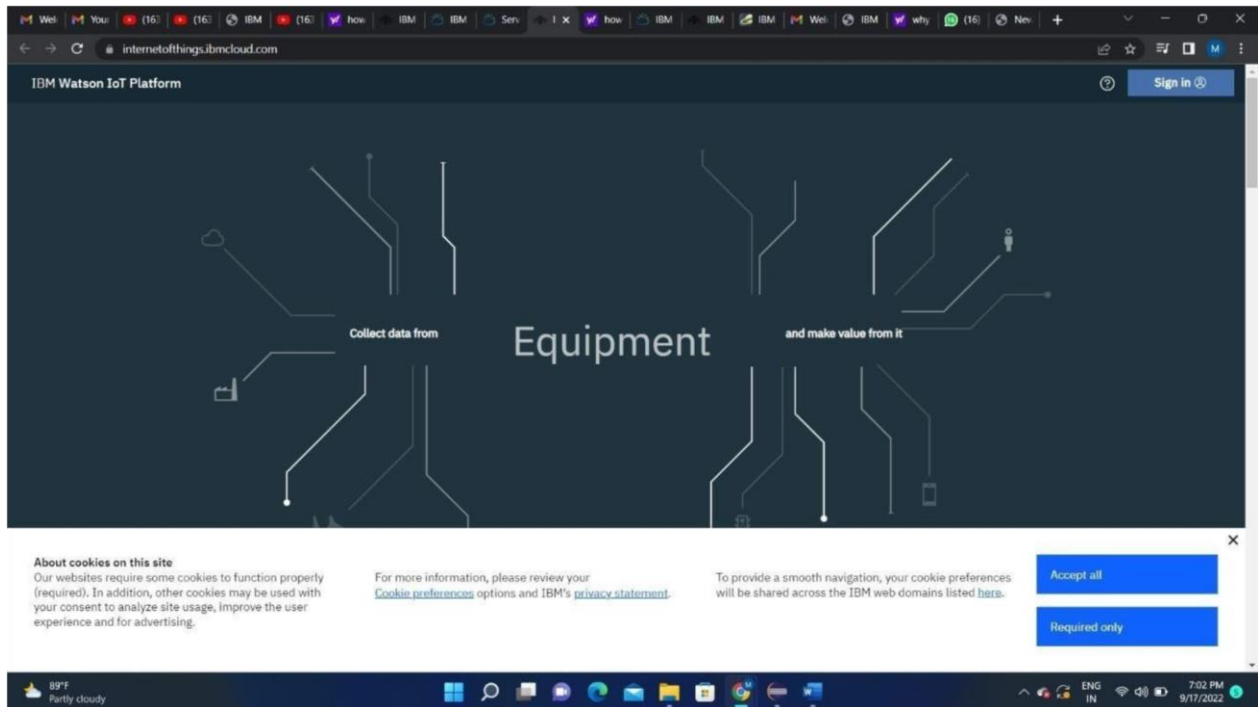
5. Enter the location and in the configure your resource type the service name and choose the plan, tick the agree with agreements and then click on create



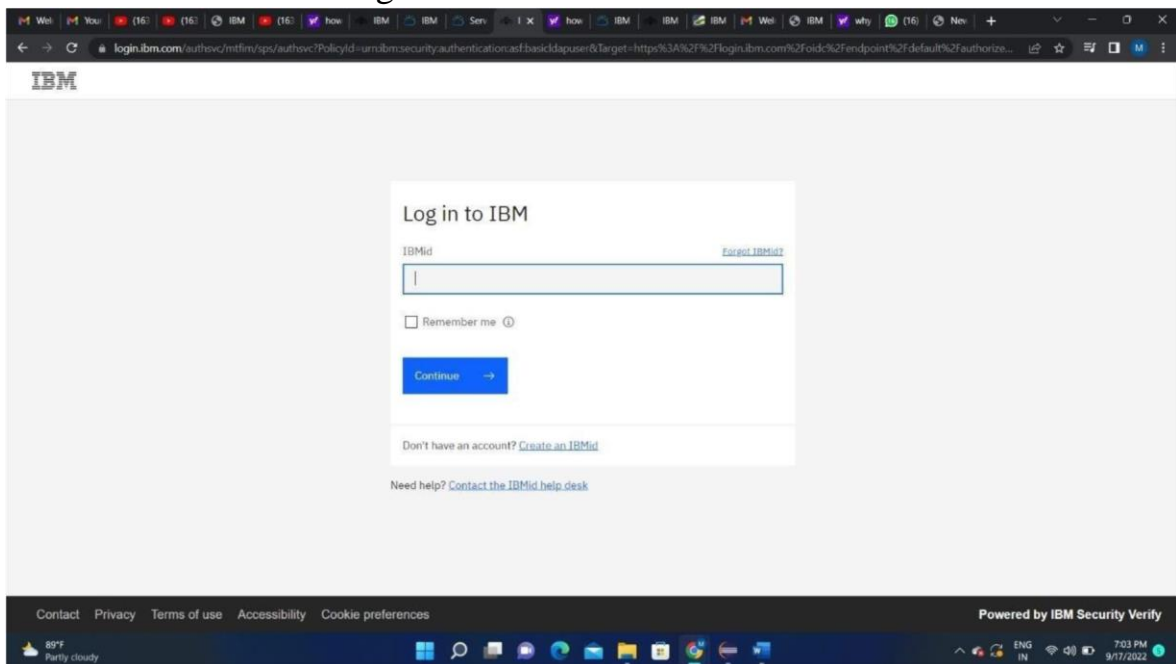
- Internet of Things Platform Child_safety will be created, where there are different options like manage, plan, and connection (manage is for launch, Plan gives us the idea about the payment package and its upgrades, and lastly the connection is for to connect IoT with other services)



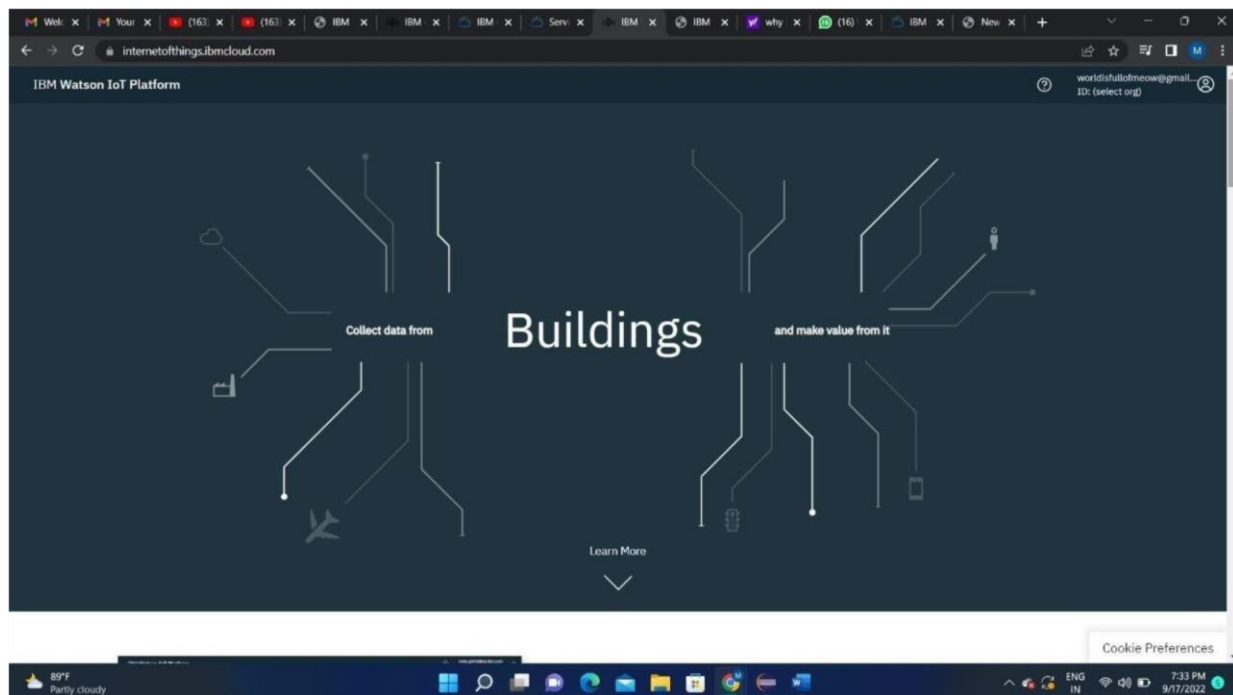
7. Clicking on the launch button in the manage tab, it will open to this



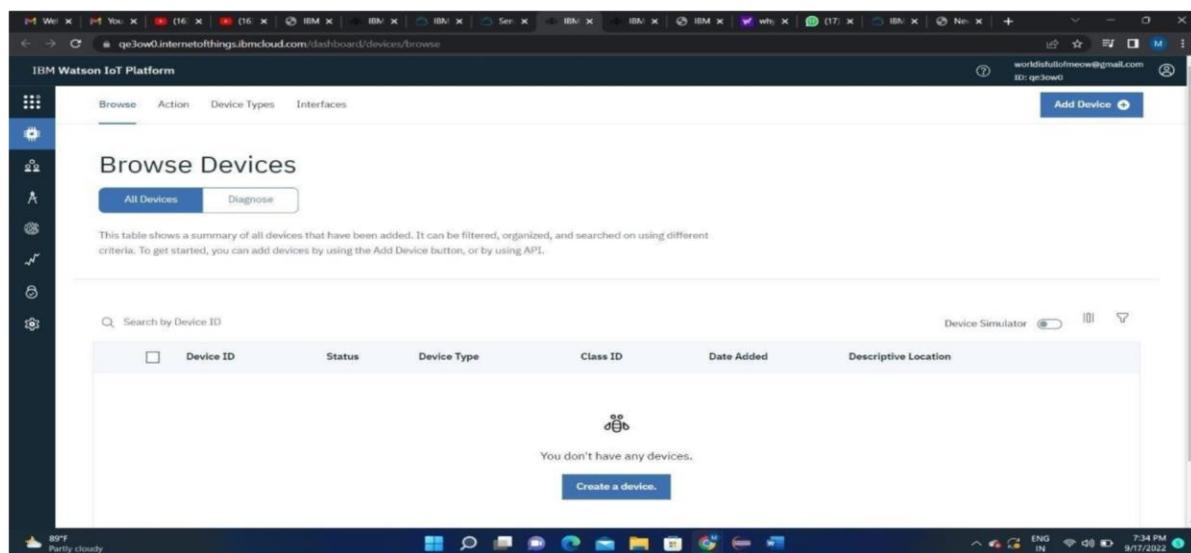
8. Enter the details to sign in to the Watson Cloud to create a device



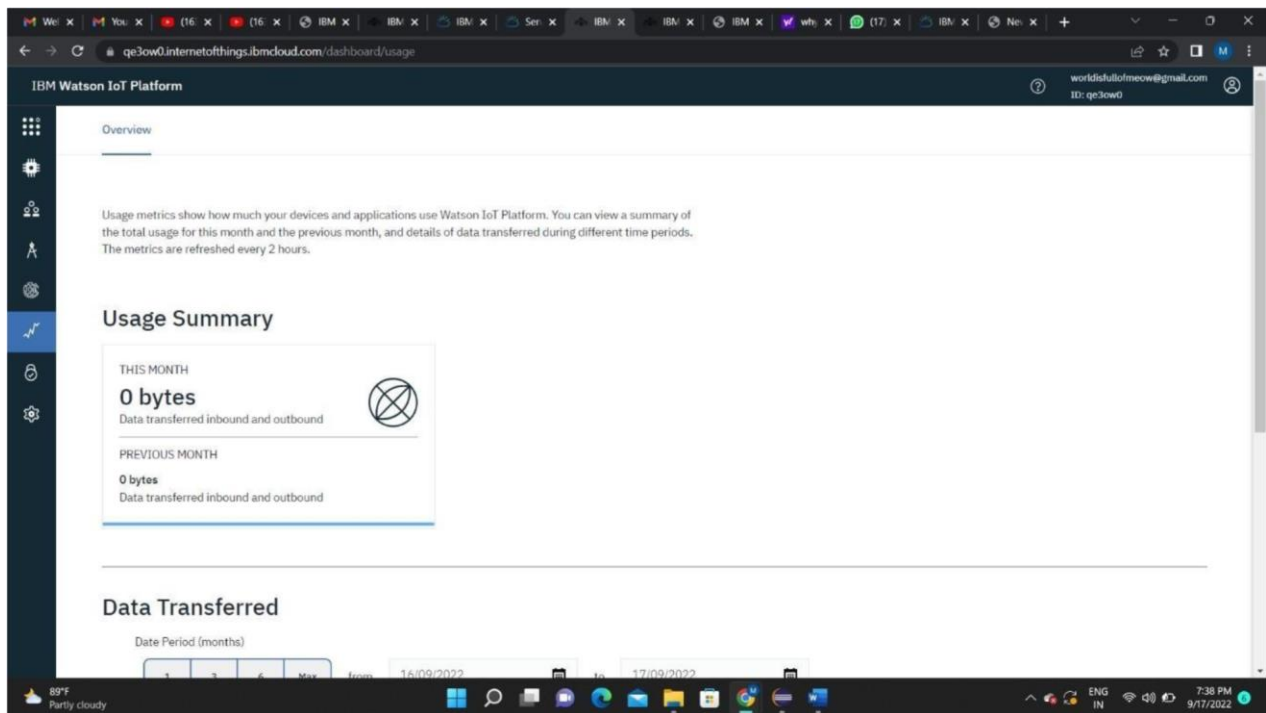
9. Once logged in the name will be displayed and it goes back to the first page



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.

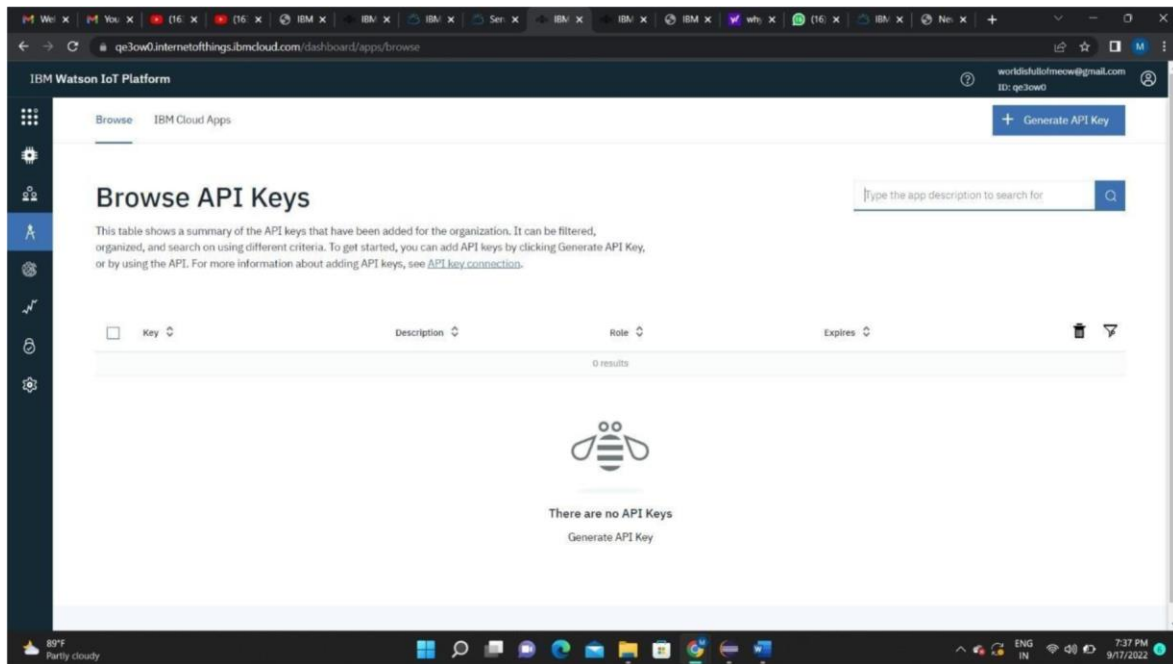


12.The member tab is add the teams members to work in the platform

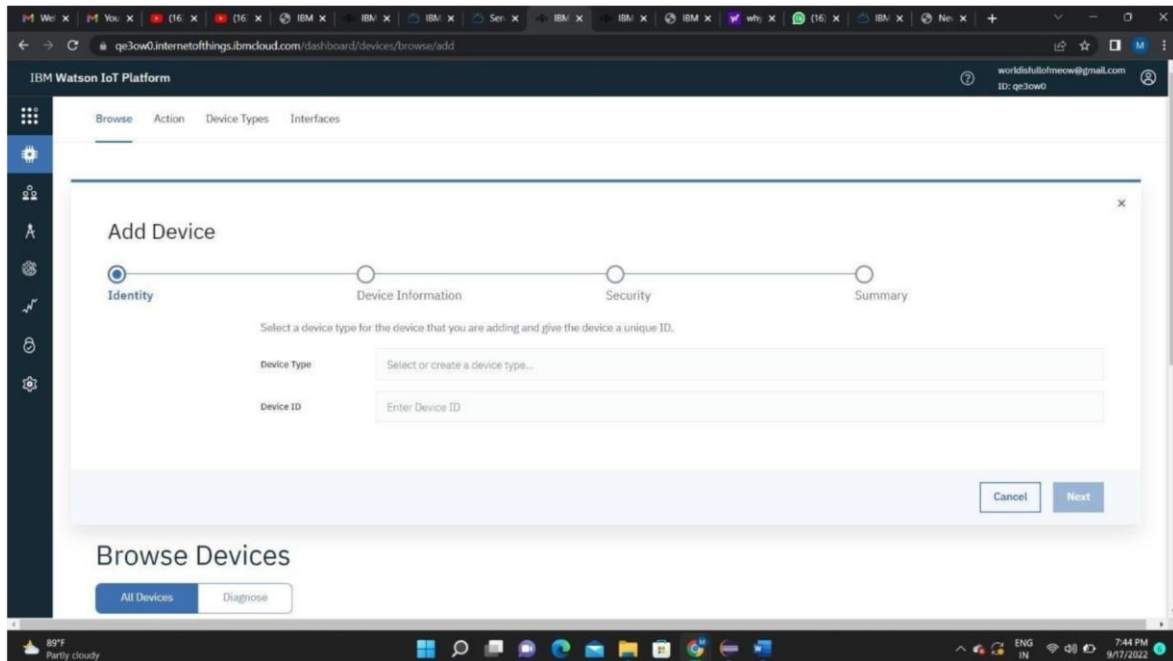
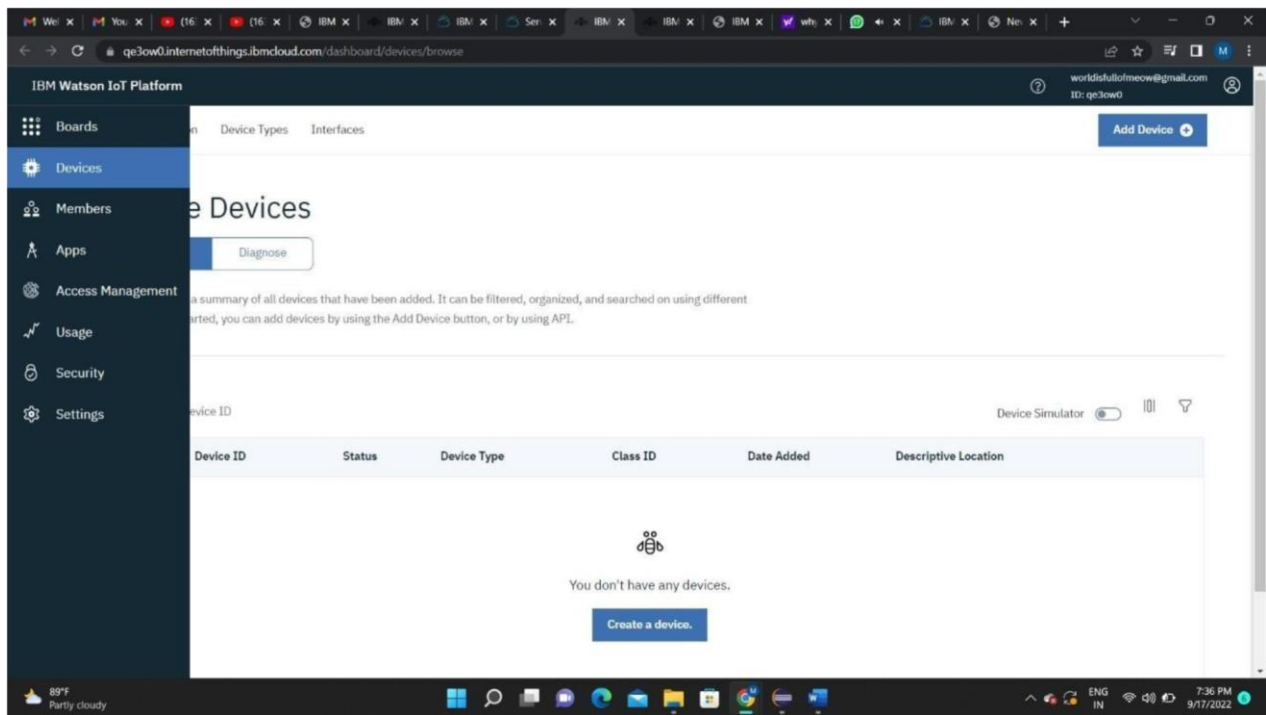
The screenshot shows the 'Browse Members' page in the IBM Watson IoT Platform. The page title is 'Browse Members'. Below the title, there is a description: 'This table shows a summary of the members of the organization. It can be filtered, organized, and search on using different criteria. To get started, you can add members by clicking Add Members, or by using the API. For more information about members, see [Managing user access](#).' There is a search bar with the placeholder text 'Type the member email to search for'. Below the search bar, there is a table with columns: 'Email Address', 'Name', 'Role', 'Added By', 'Expires', and a trash icon. The table shows 1 result. The result is a member with email address 'worldisfulofmeow@gmail.com', name 'worldisfulofmeow@gmail.com', role 'Administrator', added by '-', and expires '-'. There is an 'Add Members' button in the top right corner.

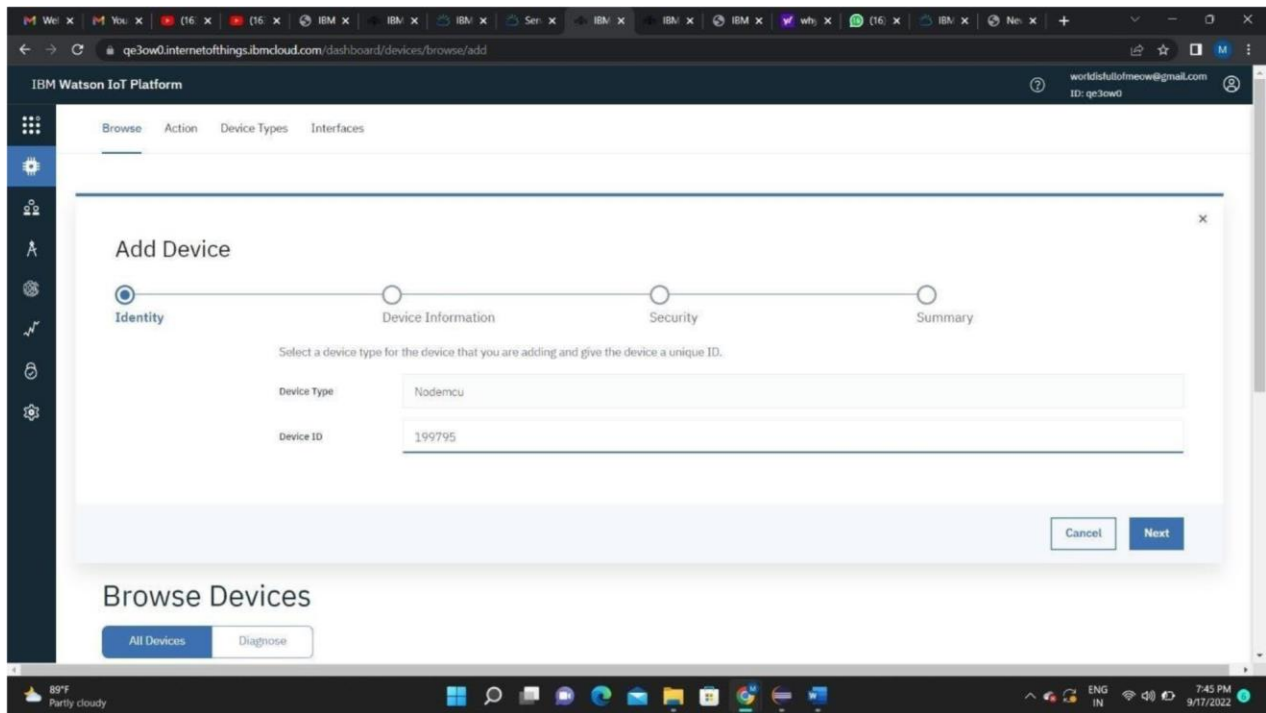
Email Address	Name	Role	Added By	Expires
worldisfulofmeow@gmail.com	worldisfulofmeow@gmail.com	Administrator	-	-

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

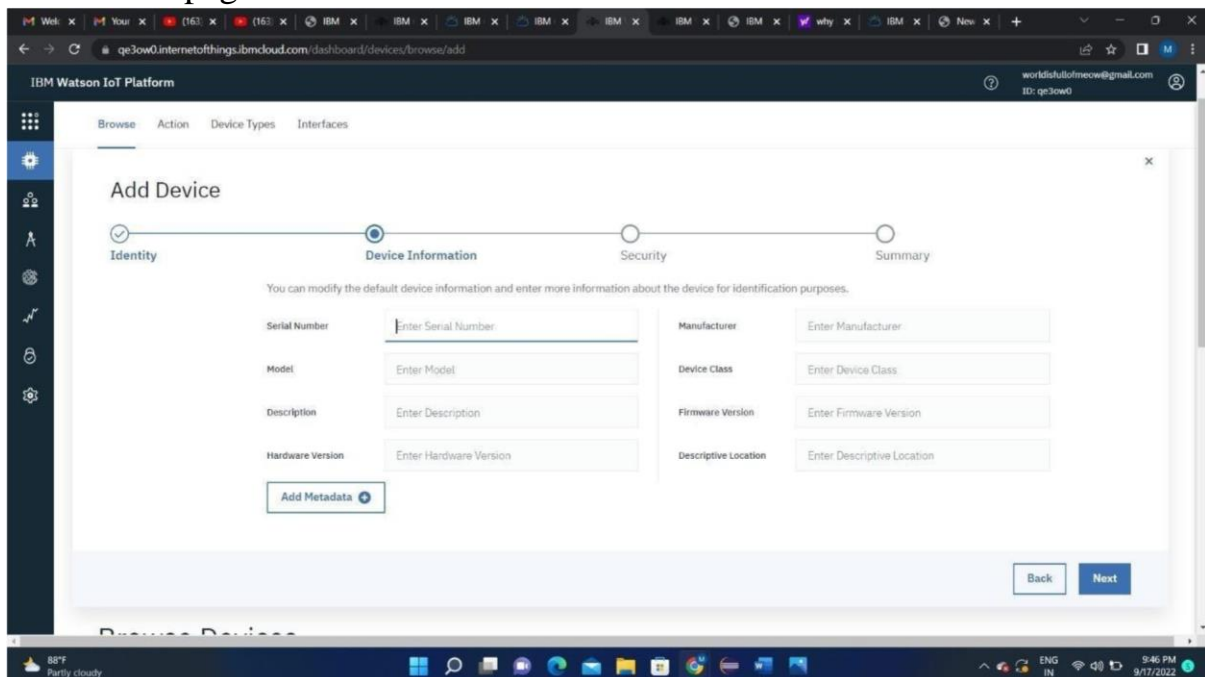


14. Click on the device tab and click on the add device button, then give the device type and device id and click next

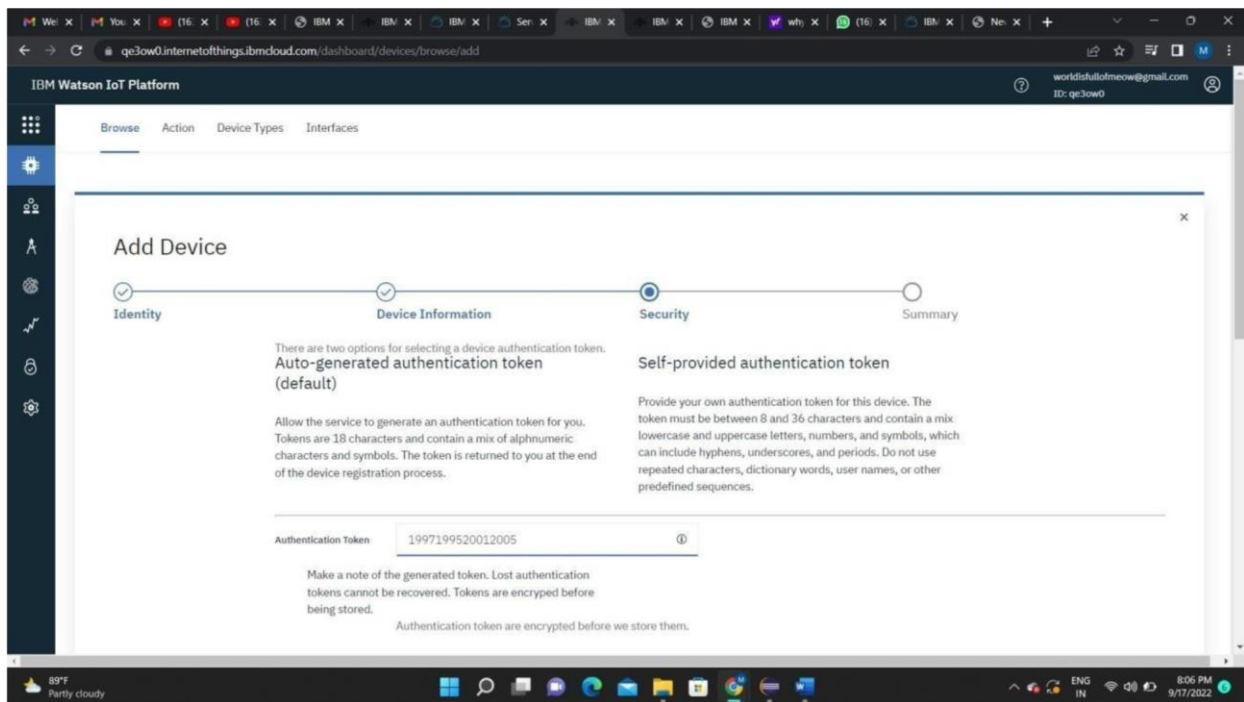




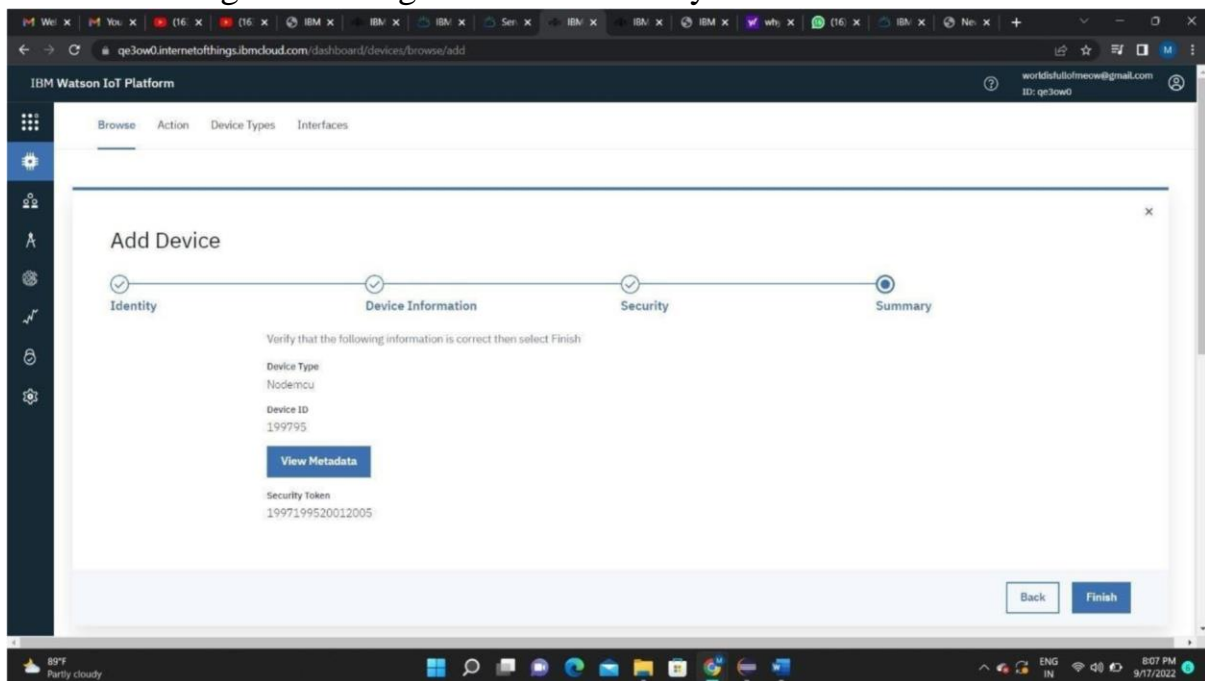
15. This page to enter extra details and of the hardware



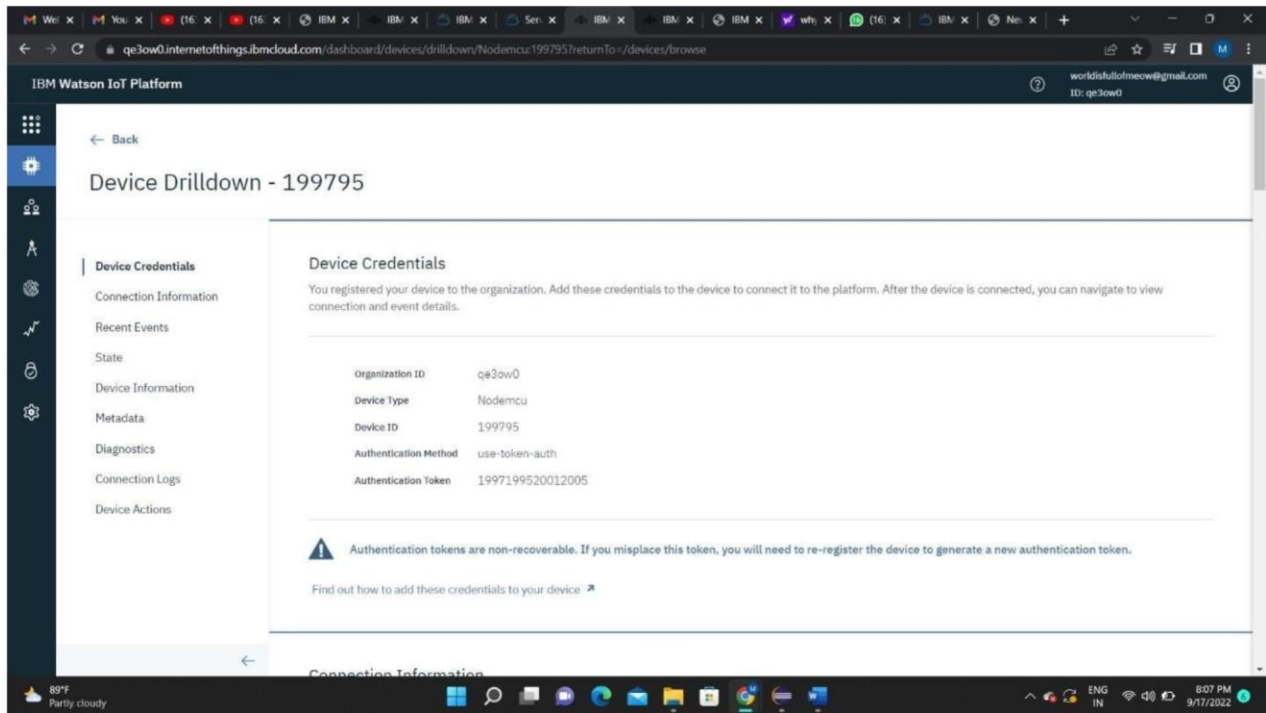
16. Clicking next it goes to the security where we do authentication token id.



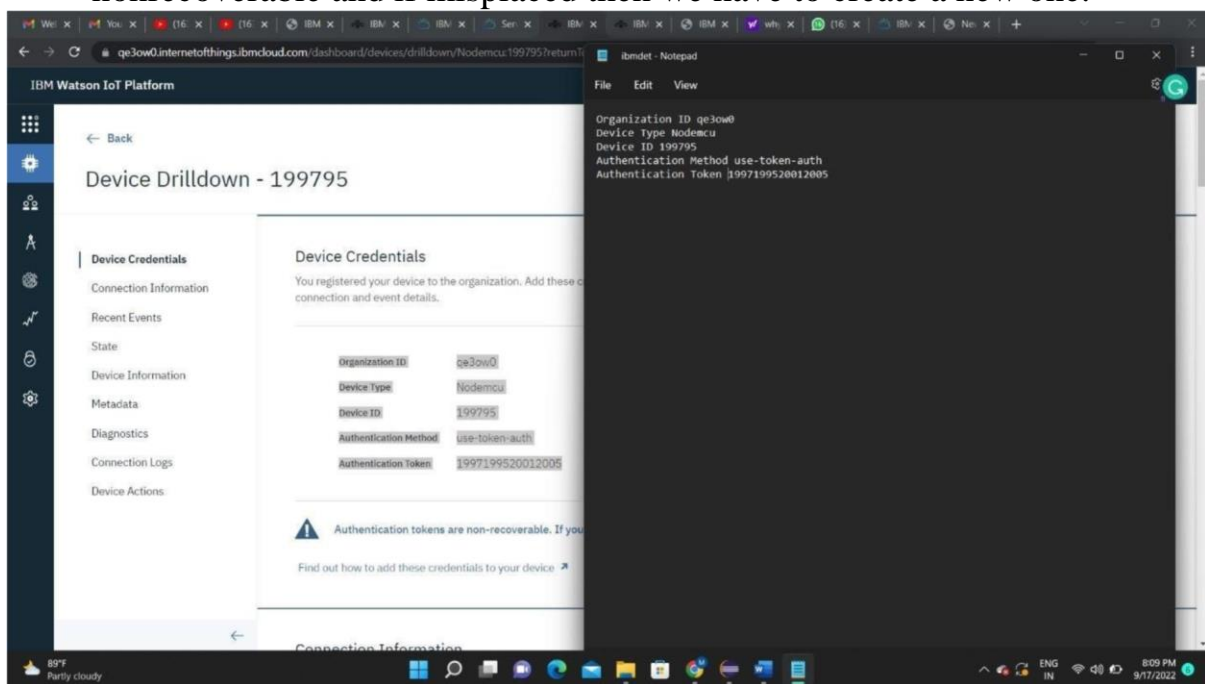
17. Clicking on next it goes to the summary of the device then click finish



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



19.Safe the details of the device as the authentication tokens are nonrecoverable 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 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'. The main table lists devices with columns: Device ID, Status, Device Type, Class ID, Date Added, and Descriptive Location. A device with ID 199795 is highlighted, and its details are shown in a modal window. The modal has tabs for 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. The 'Recent Events' tab is active, showing a table with columns: Event, Value, Format, and Last Received. The text 'Waiting for device events...' is displayed below the table.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
199795	Disconnected	Nodemcu	Device	17 Sep 2022 20:07	

Event	Value	Format	Last Received
Waiting for device events...			

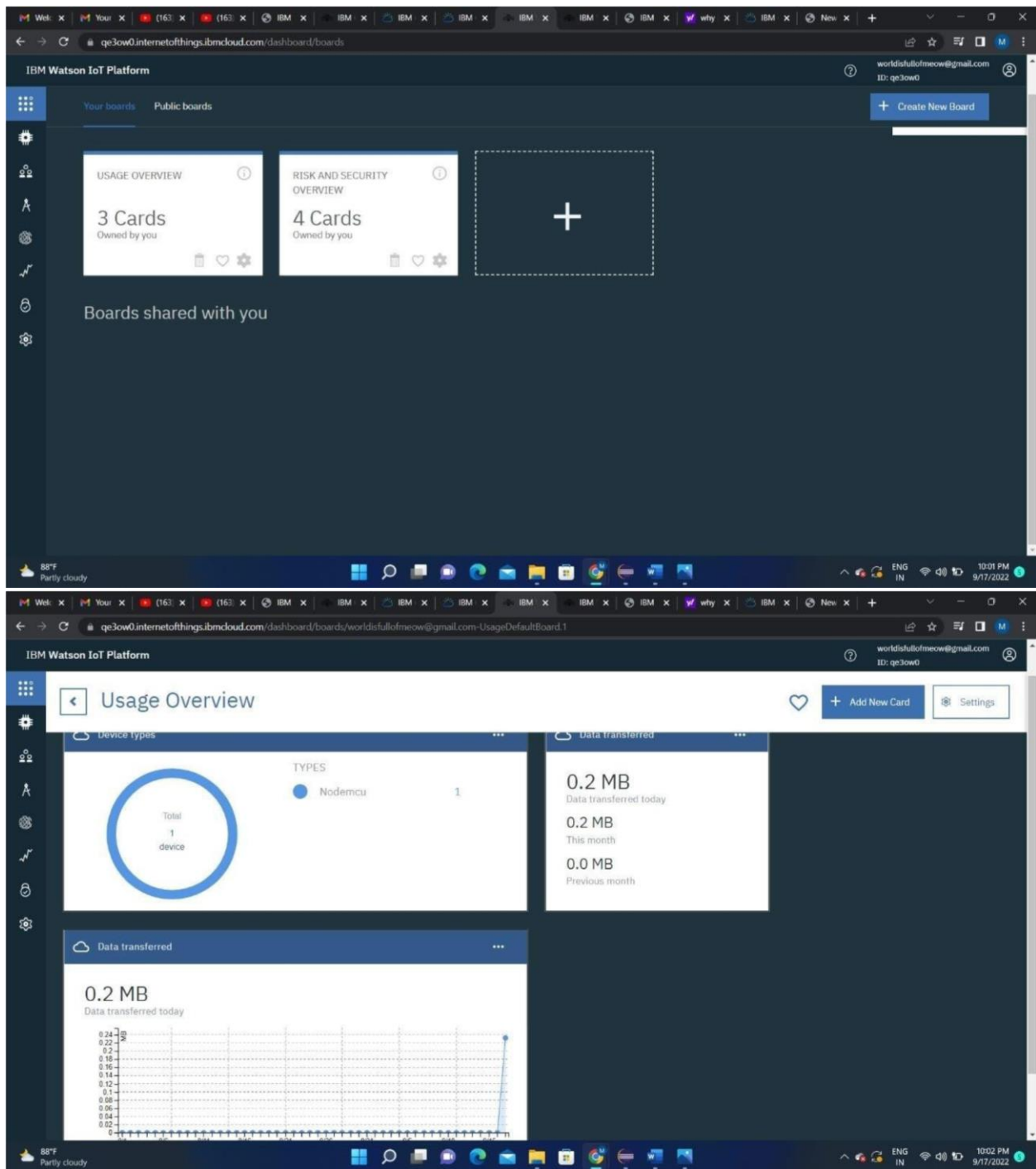
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Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
199795	Disconnected	Nodemcu	Device	17 Sep 2022 20:07	

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

21.The Boards will display card for the project.



RESULT:

An IBM Watson cloud for IoT and a device is created