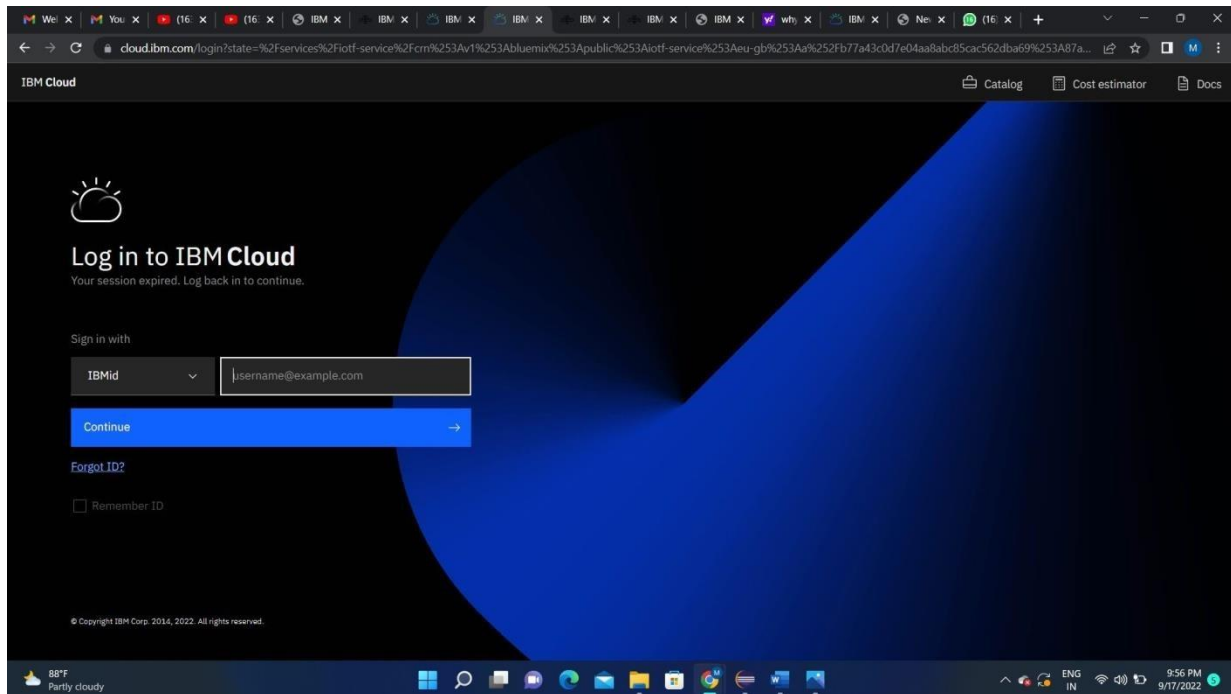


CREATE IBM WATSON IOT PLATFORM AND DEVICE

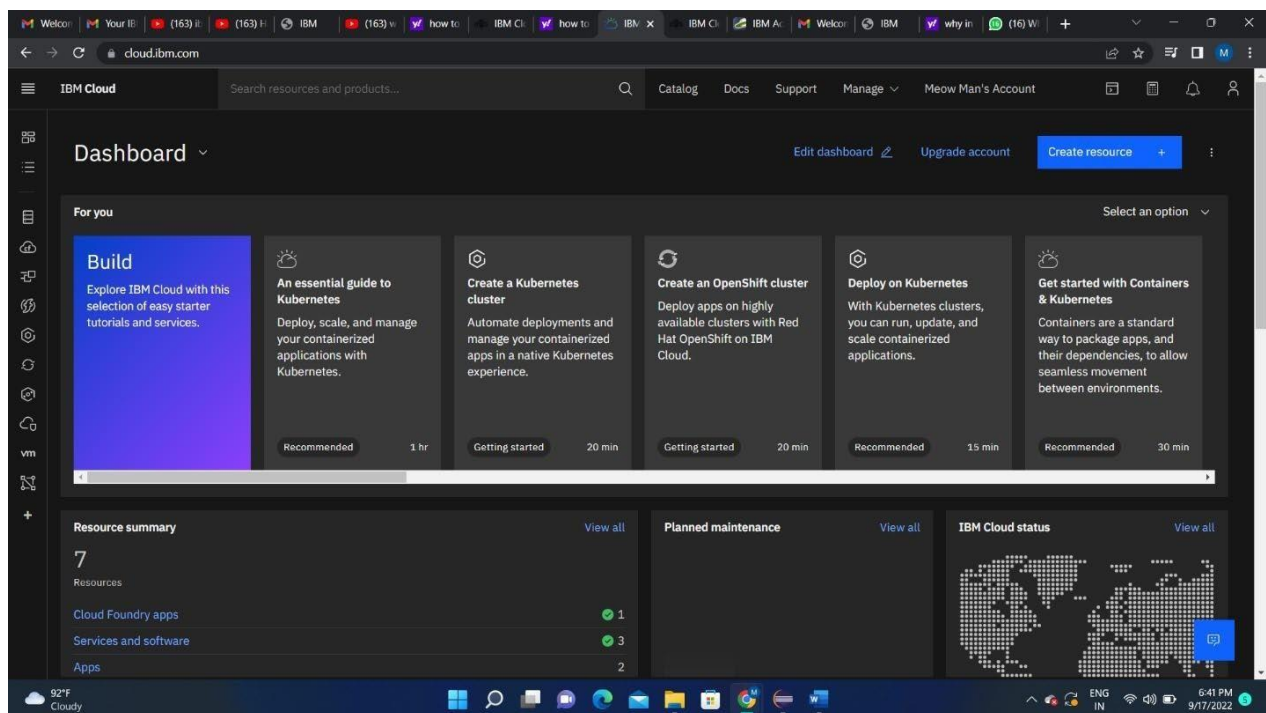
Date	03-11-2022
Team ID	PNT2022TMID01082
Project Name	Project - IOT based safety gadget for child safety monitoring and notification
Maximum Marks	4 Marks
Submitted By	A.S. MANOJ KUMAR

STEPS:

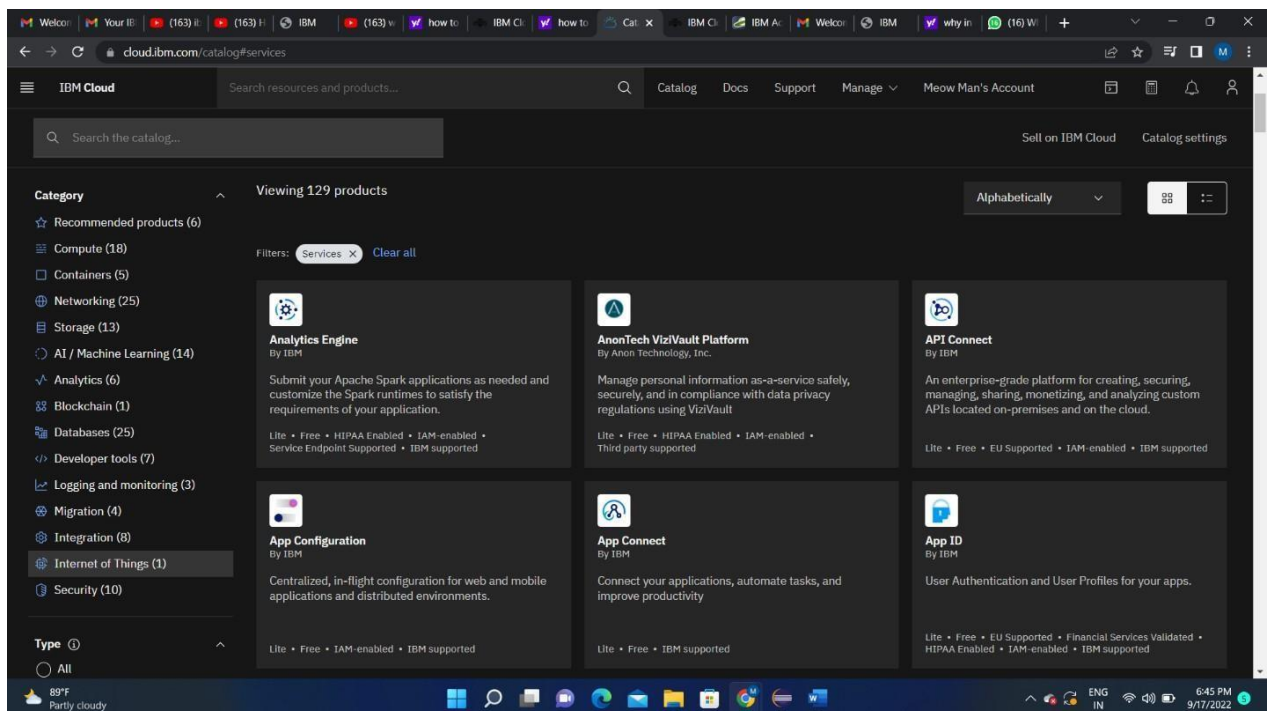
1. First create an IBM cloud account with IBM id and password



2. Home page of IBM cloud



3. Click on the catalog on the top



Click on IoT in the category mentioned

The screenshot shows the IBM Cloud IoT Platform page. 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 one plan: 'Lite'. The table has columns for 'Plan', 'Features', and 'Pricing'. The 'Lite' plan includes up to 500 registered devices and a maximum of 200 MB of each data metric, with a pricing of 'Free'. 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 'Create' button is disabled.

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

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

The screenshot shows the IBM Cloud IoT Platform page with the 'Configure your resource' section. The 'Lite' plan is selected. The 'Service name' field is filled with 'Internet of Things Platform-bb'. The 'Resource group' is set to 'Default'. The 'Tags' field is filled with 'Examples: env:dev, version-1'. The 'Access management tags' field is filled with 'Examples: access:dev, proj:version-1'. The 'Create' button is disabled. 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 'Create' button is disabled.

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

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 columns 'Plan', 'Features', and 'Pricing'. The 'Lite' plan is selected, showing features like 'Includes up to 500 registered devices, and a maximum of 200 MB of each data metric' and 'Maximum of 500 application bindings'. The pricing is listed as 'Free'. On the right, a 'Summary' panel shows the service name 'Internet of Things Platform-2w' and resource group 'Default'. 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.' Below the warning, there is a checkbox for 'I have read and agree to the following license agreements:' and a 'Create' button.

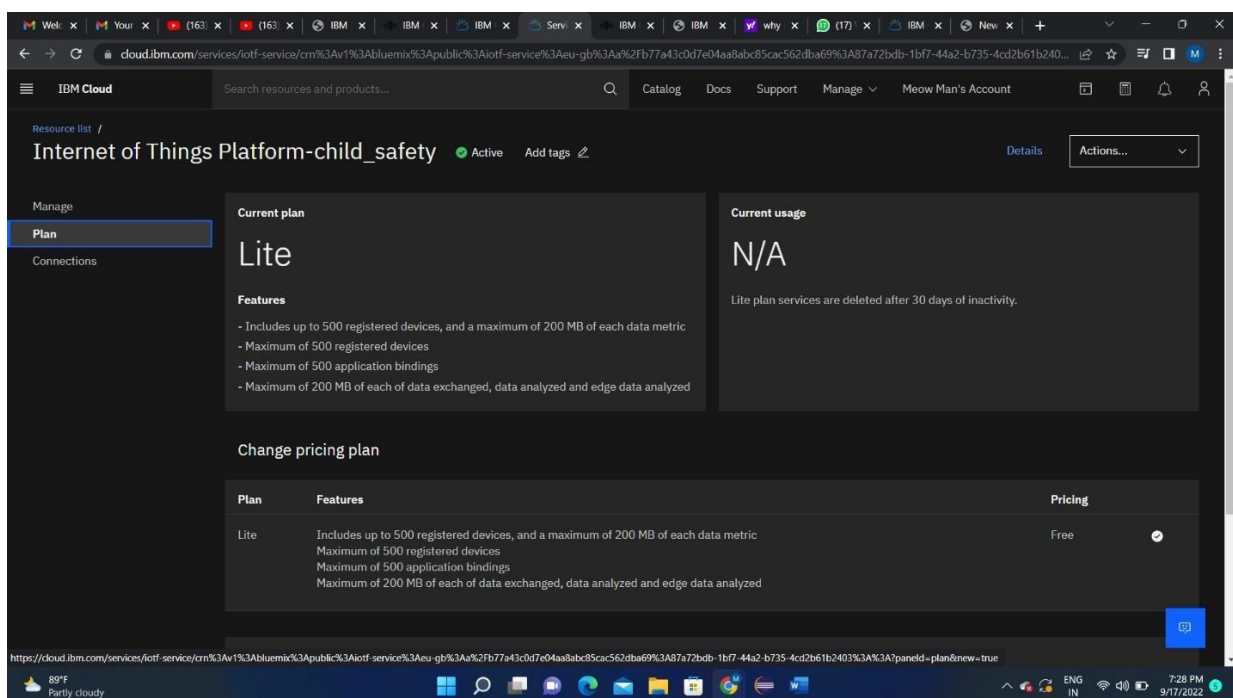
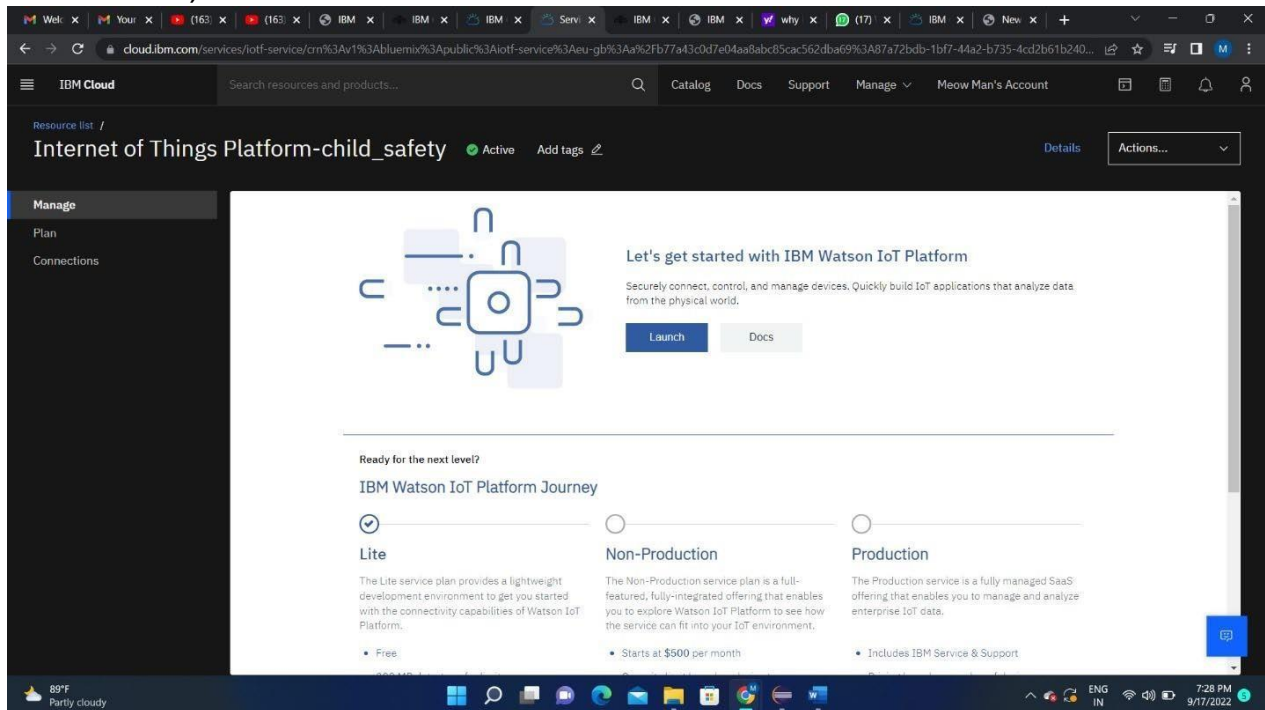
Plan	Features	Pricing
Lite	Includes up to 500 registered devices, and a maximum of 200 MB of each data metric Maximum of 500 registered devices Maximum of 500 application bindings Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed	Free

The screenshot shows the 'Configure your resource' section of the IBM Cloud catalog page for the 'Internet of Things Platform'. The 'Lite' plan is selected. The 'Service name' field is set to 'Internet of Things Platform-child_safety'. The 'Select a resource group' dropdown shows 'Default'. The 'Tags' field has the example 'env:dev, version-1'. The 'Access management tags' field has the example 'access:dev, proj:version-1'. On the right, the 'Summary' panel shows the service name 'Internet of Things Platform' and resource group 'Default'. A checkbox for 'I have read and agree to the following license agreements:' is checked. Below this, there is a 'Create' button and an 'Add to estimate' button.

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

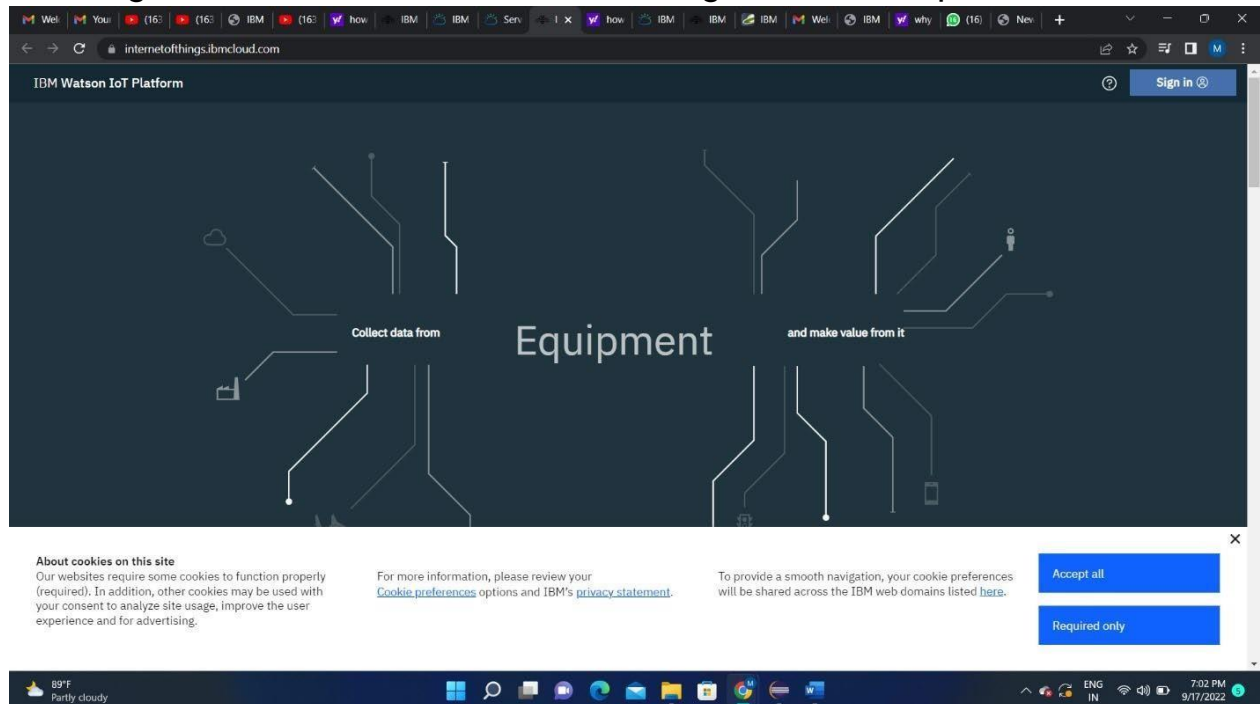
6.

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 services)

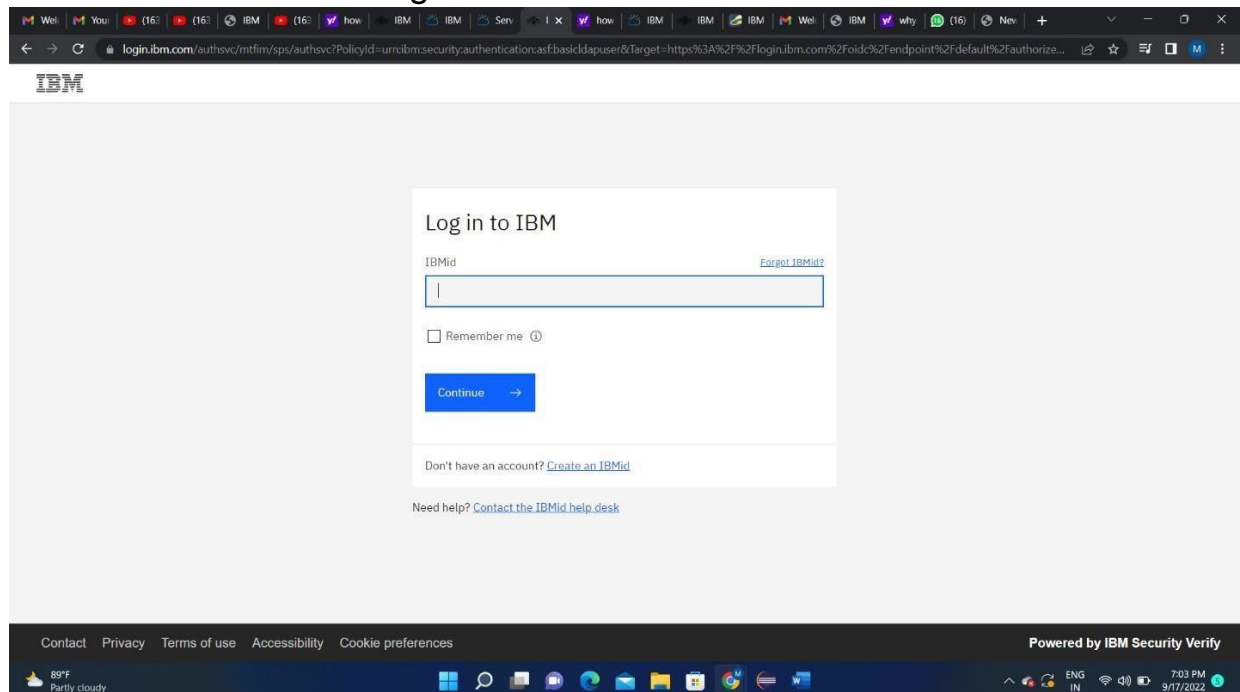


7.

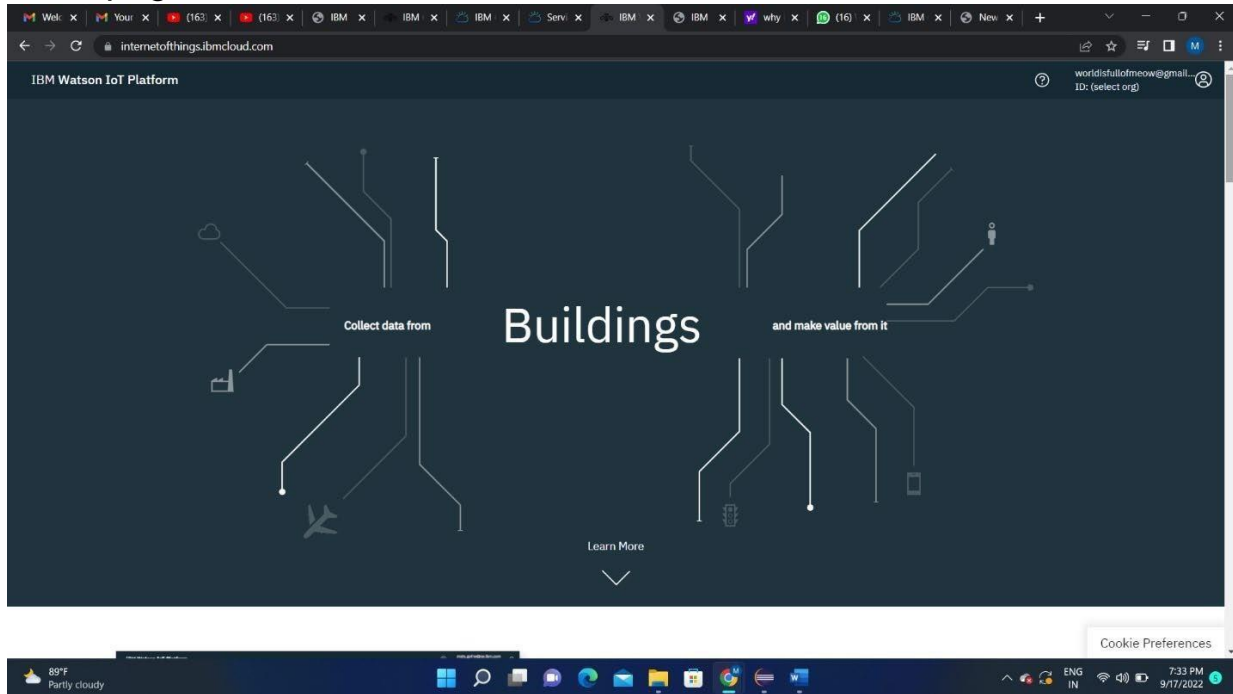
Clicking on the launch button in the manage tab, it will open to this



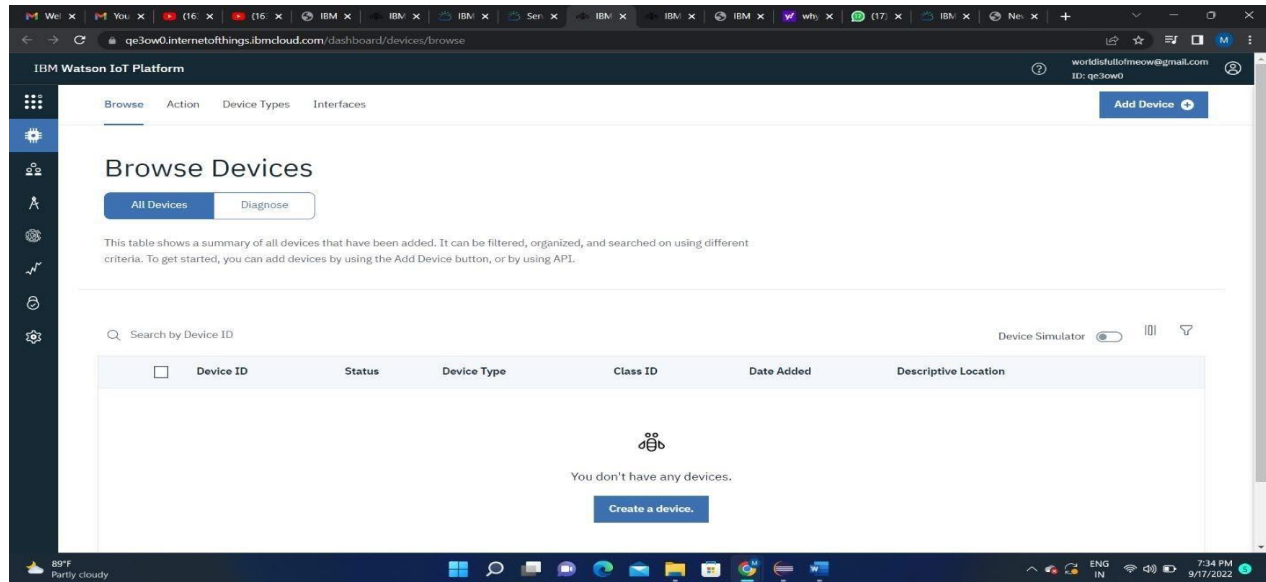
8. Enter the details to sign in to the Watson Cloud to create a device



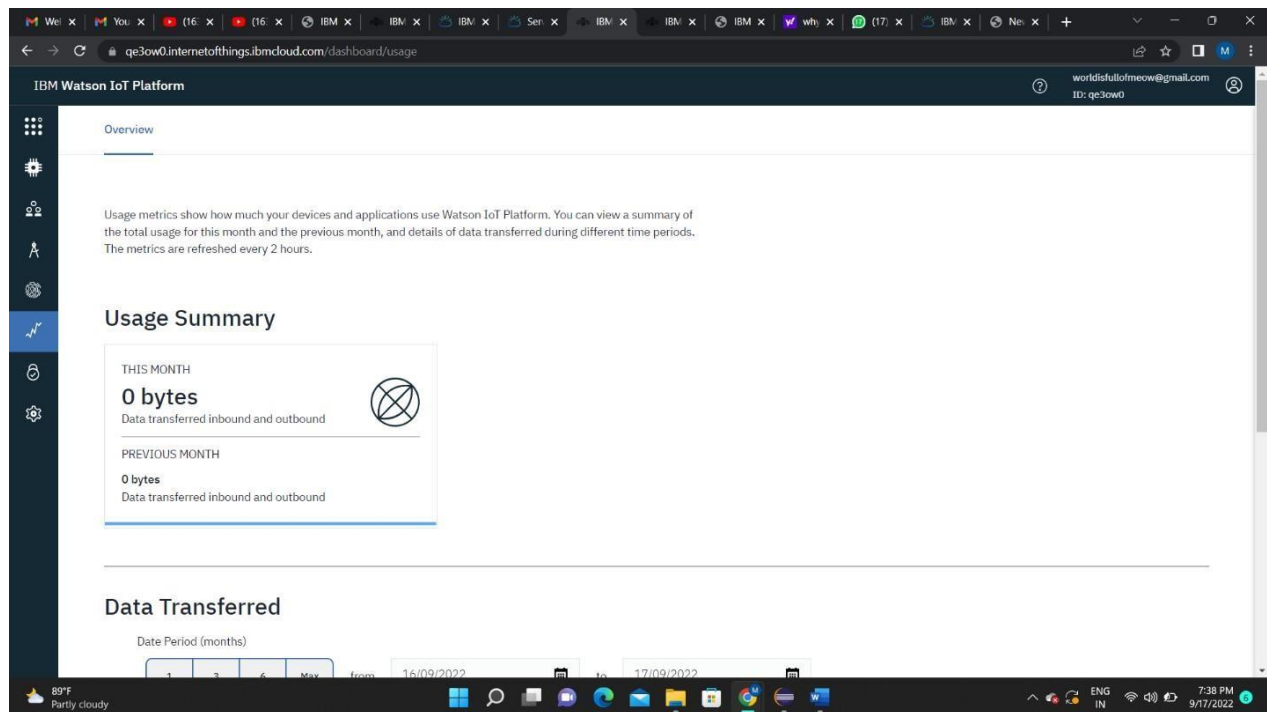
9. Once logged in the name will be displayed and it goes back to the first page



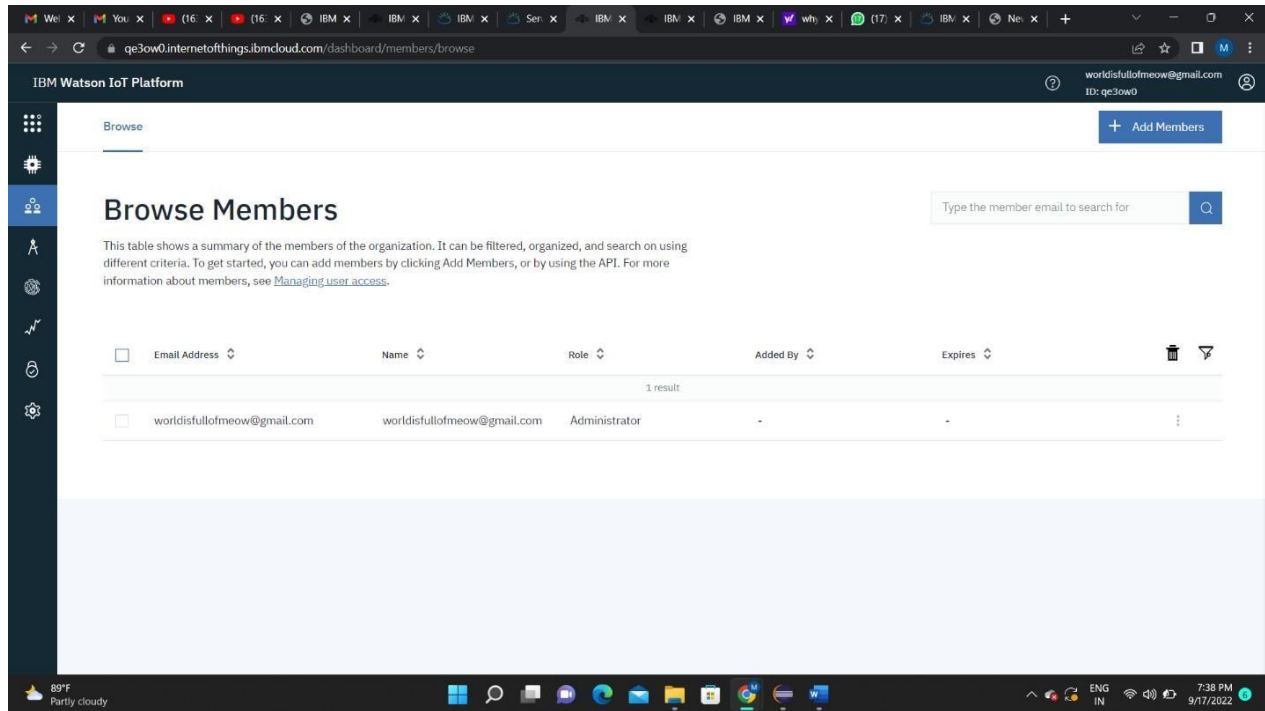
10. And again clicking on the launch button will open this tab, the device will help in the creation of the devices, the addition of devices, and the display of details of the devices



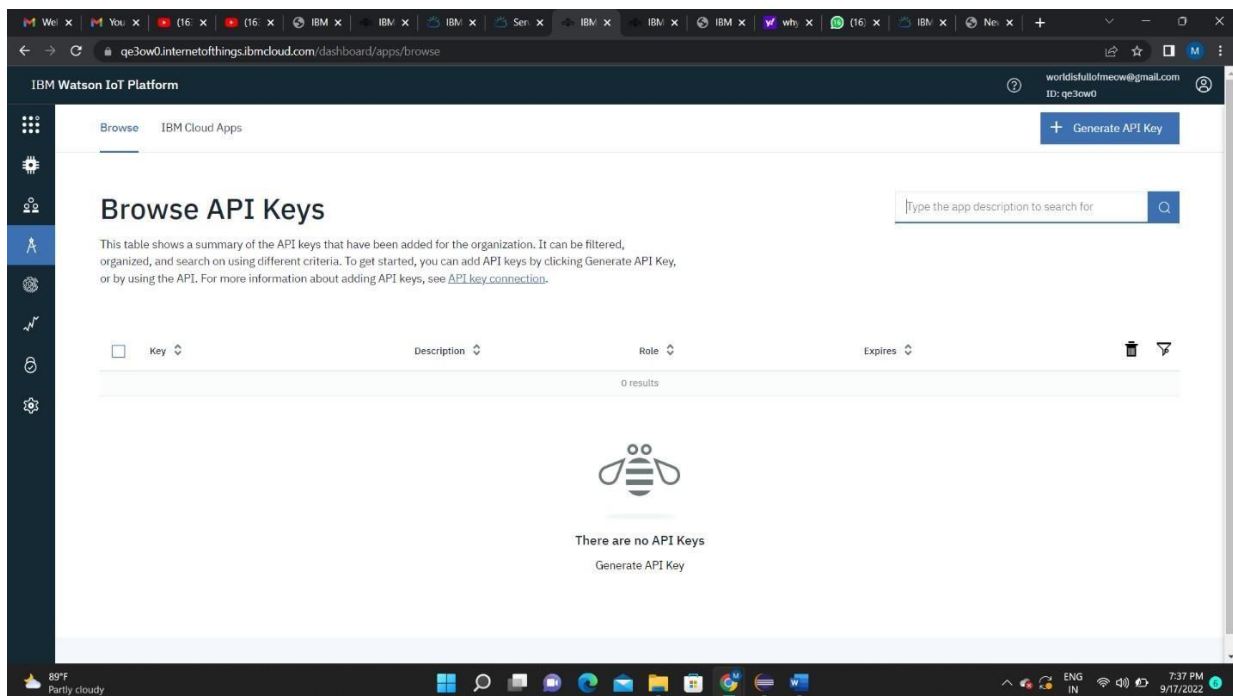
11. Usage gives the summary of how many bytes are used between the devices and the IBM cloud.



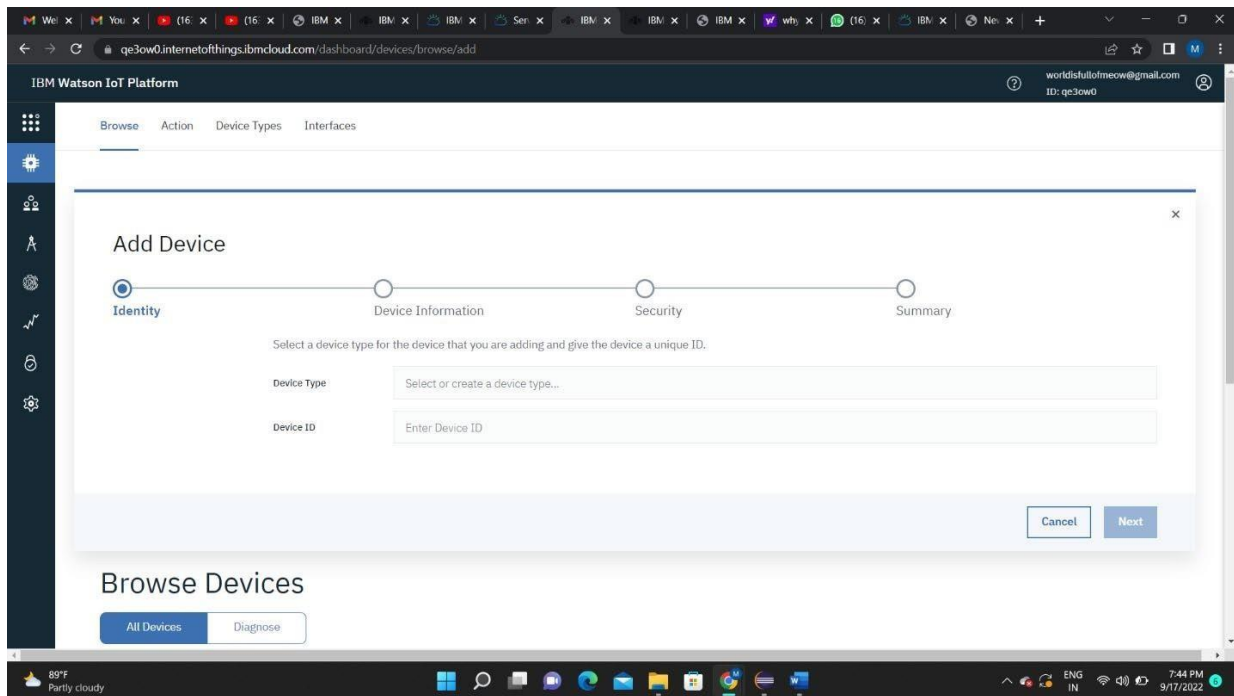
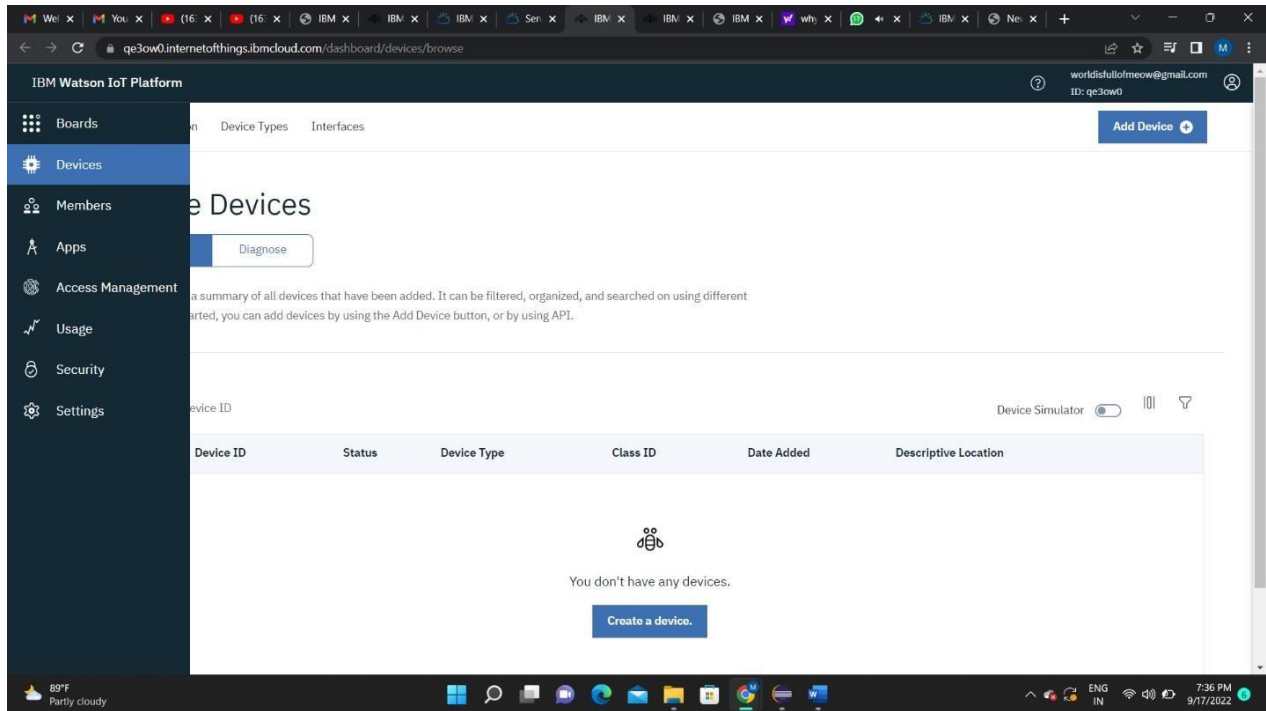
12. The member tab is add the teams members to work in the platform

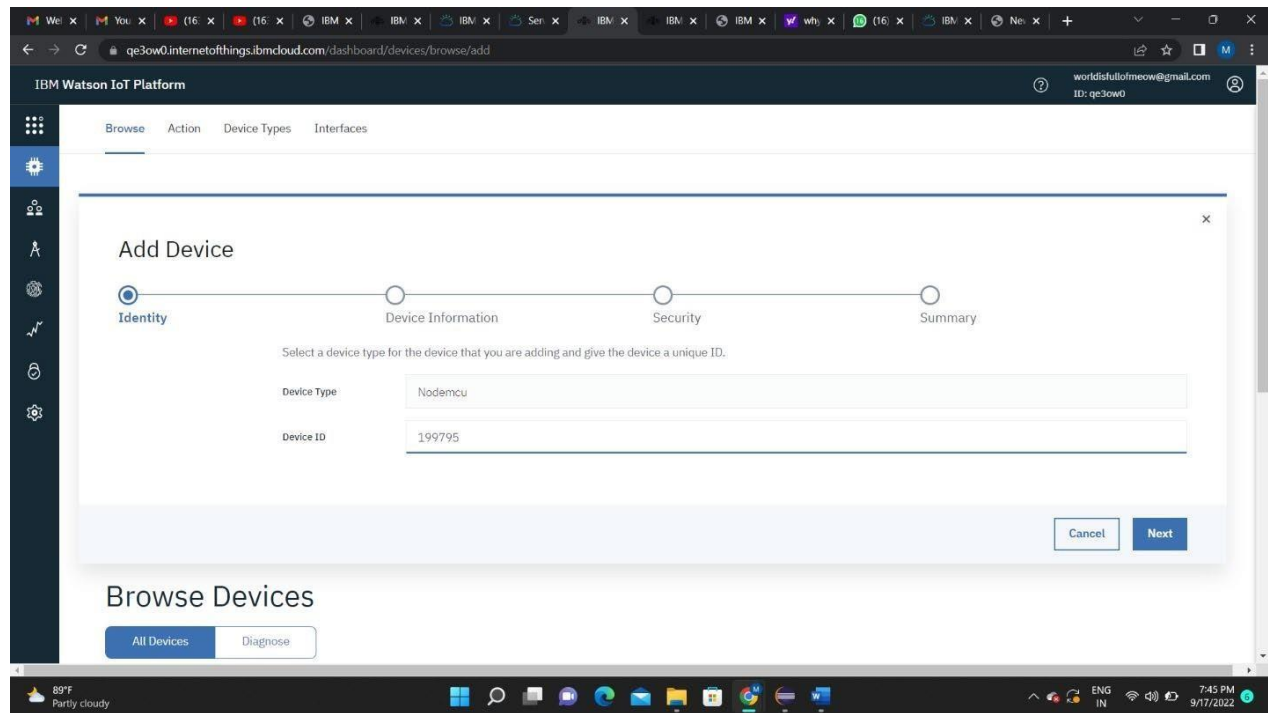


13. This tab is used when you want to connect to some other platform and to integrate with other services.

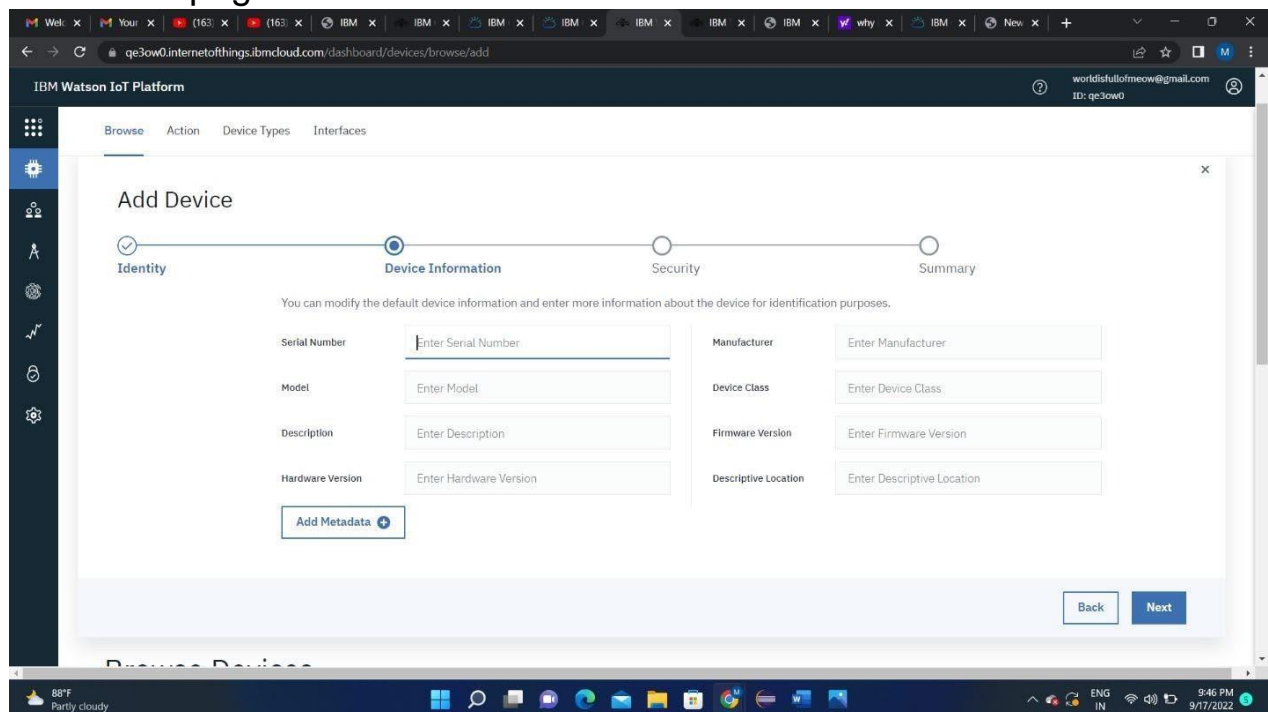


14. Click on the device tab and click on the add device button, then give the device type and device id and click next

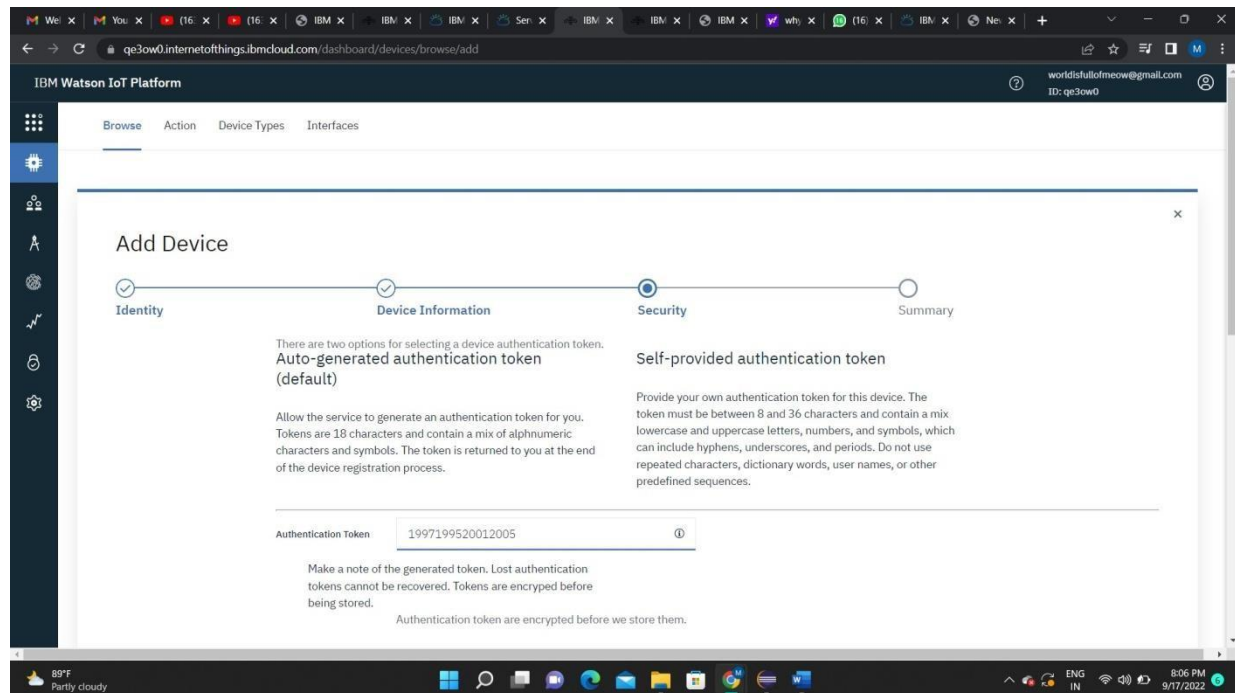




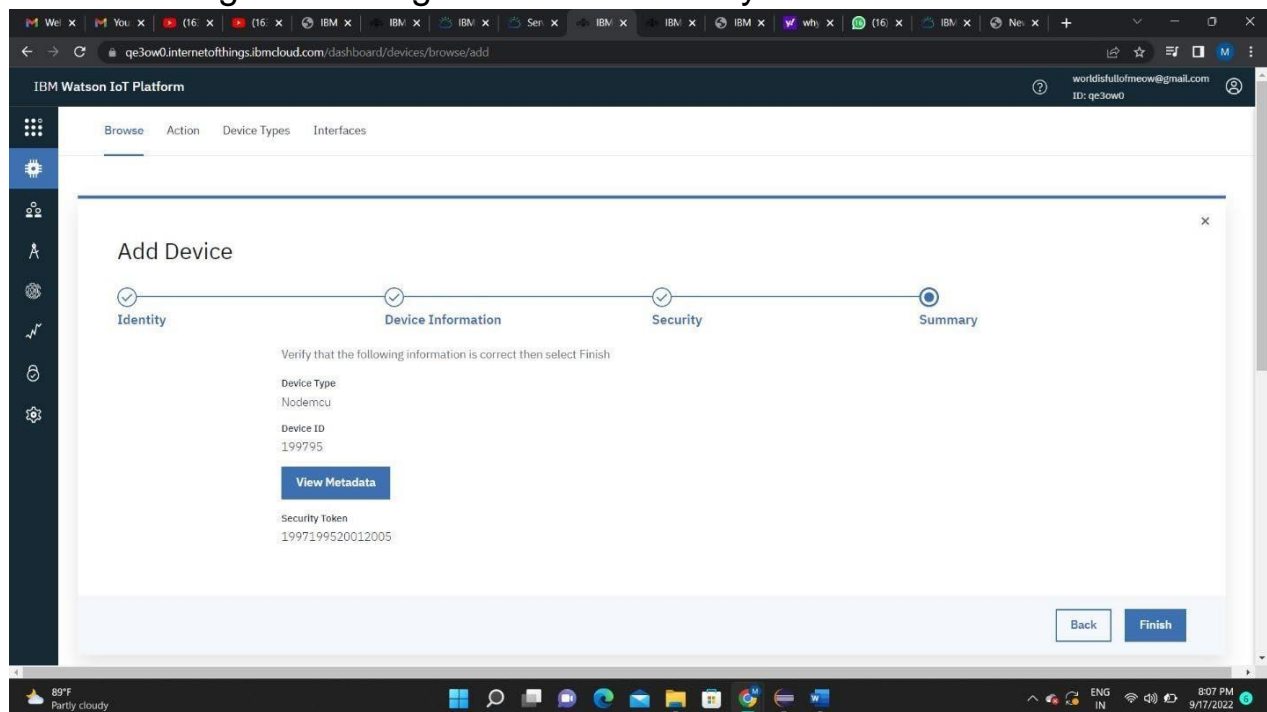
15. This page to enter extra details and of the hardware



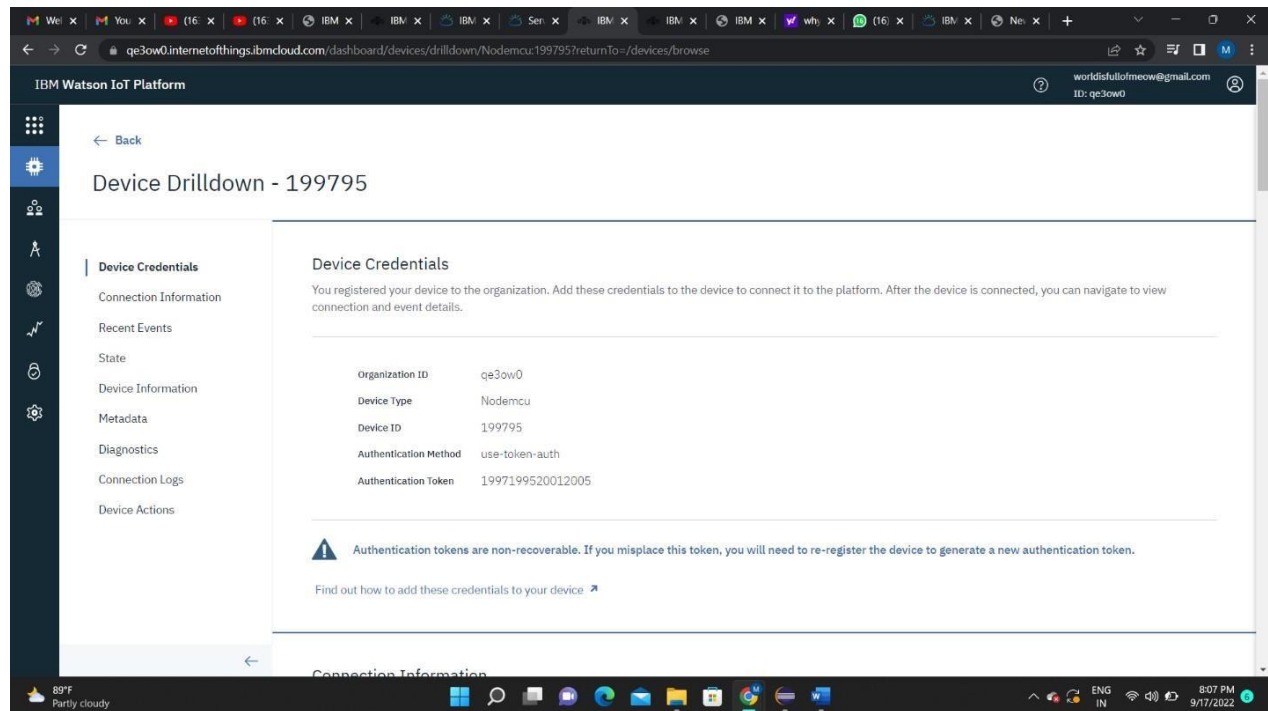
16. Clicking next it goes to the security where we do authentication token id.



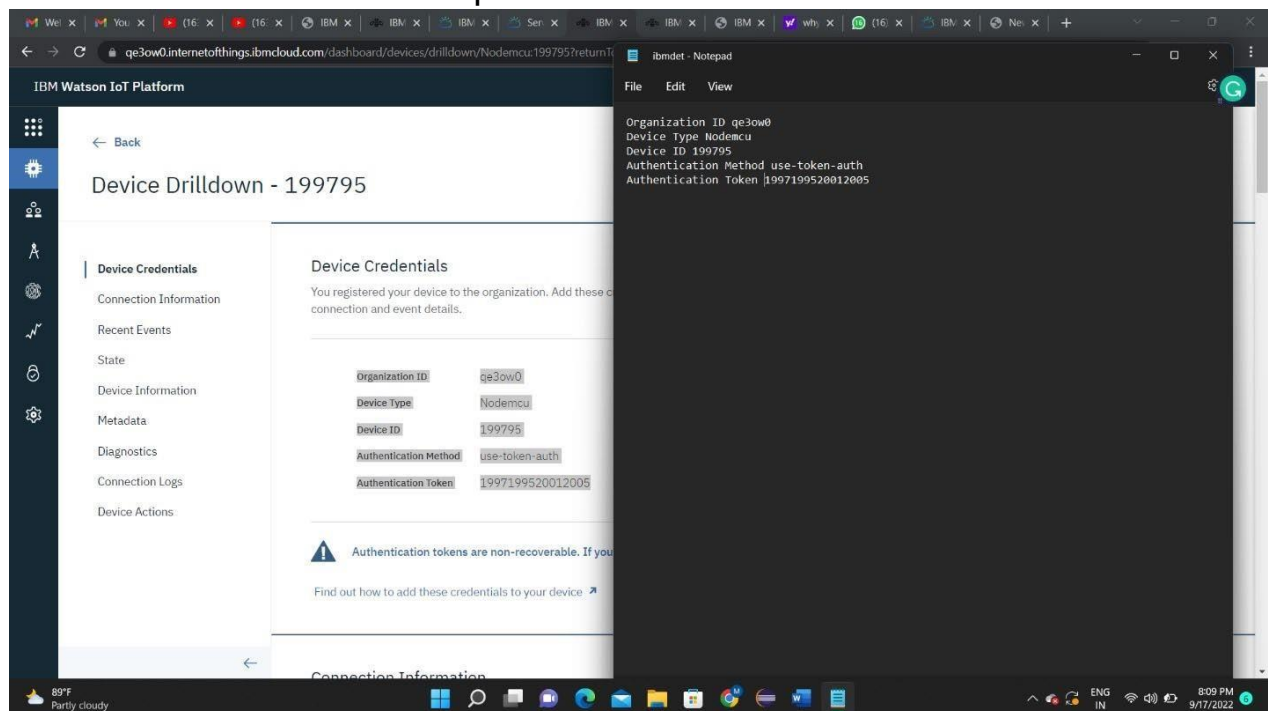
17. Clicking on next it goes to the summary of the device then click finish



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.

IBM Watson IoT Platform

Search by Device ID

Device Simulator

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

Identity Device Information Recent Events State Logs

The recent events listed show the live stream of data that is coming and going from this device.

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

IBM Watson IoT Platform

Search by Device ID

Device Simulator

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

Identity Device Information Recent Events State Logs

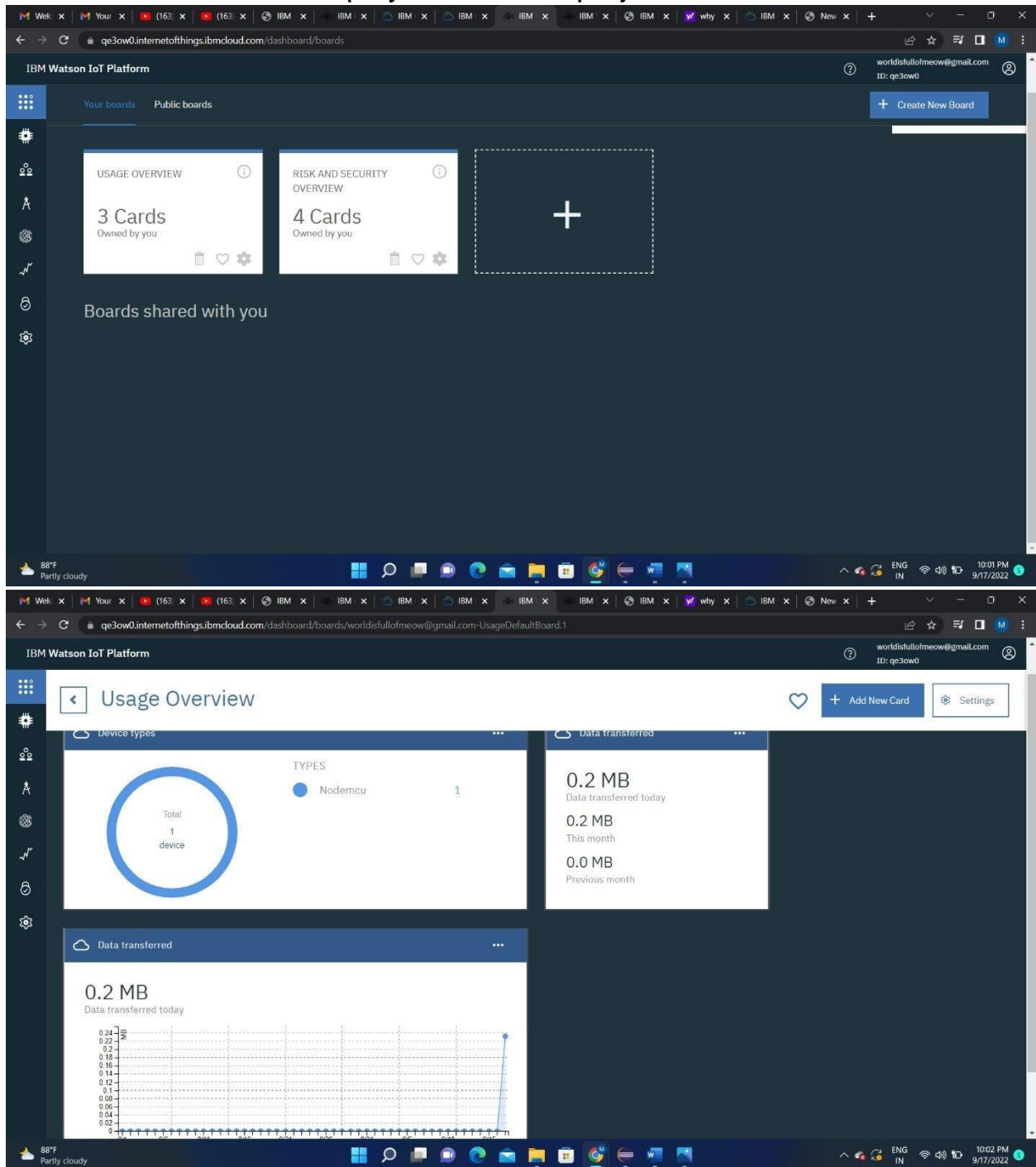
Device ID: 199795
Device Type: Nodemcu
Date Added: 17 Sep 2022 20:07
Added By: worldisfullofmeow@gmail.com
Connection Status: Disconnected

Items per page: 50 | 1-1 of 1 item

1 of 1 page

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.