

Team ID PNT2022TMID20150

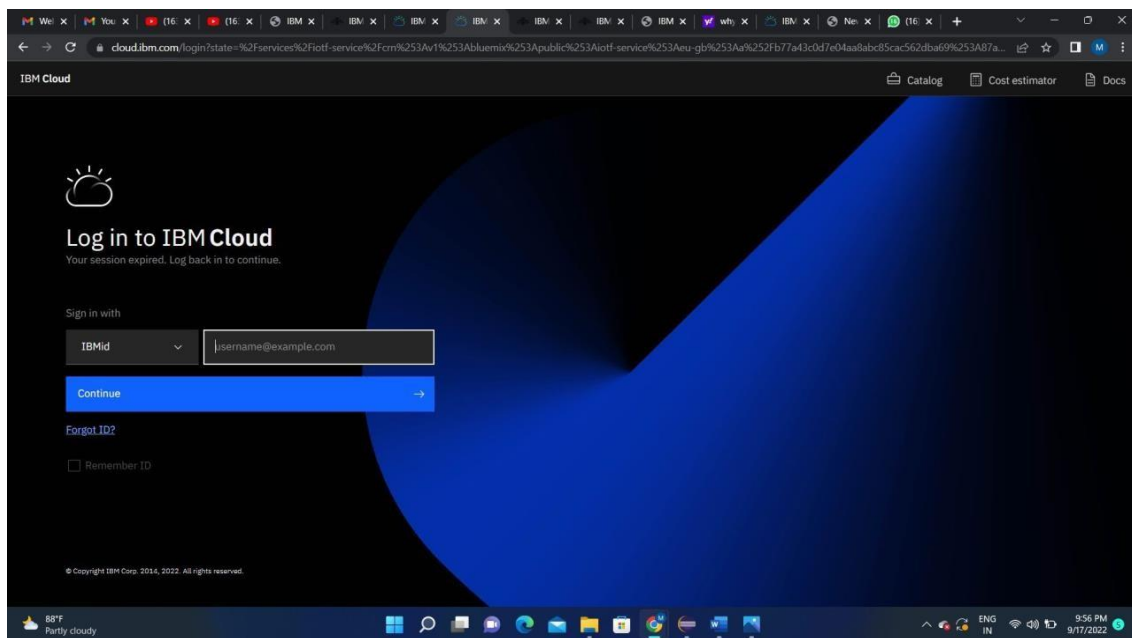
CREATE IBM WATSON IOT PLATFORM AND DEVICE

AIM:

To create the IBM Watson IoT platform and device.

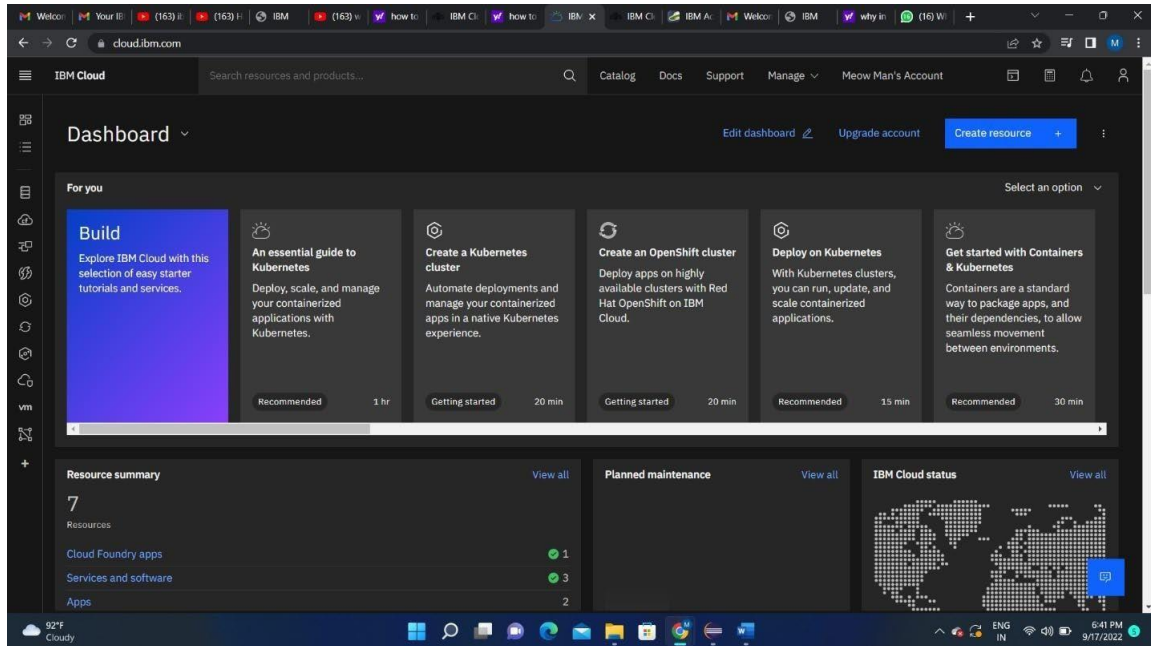
STEPS:

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

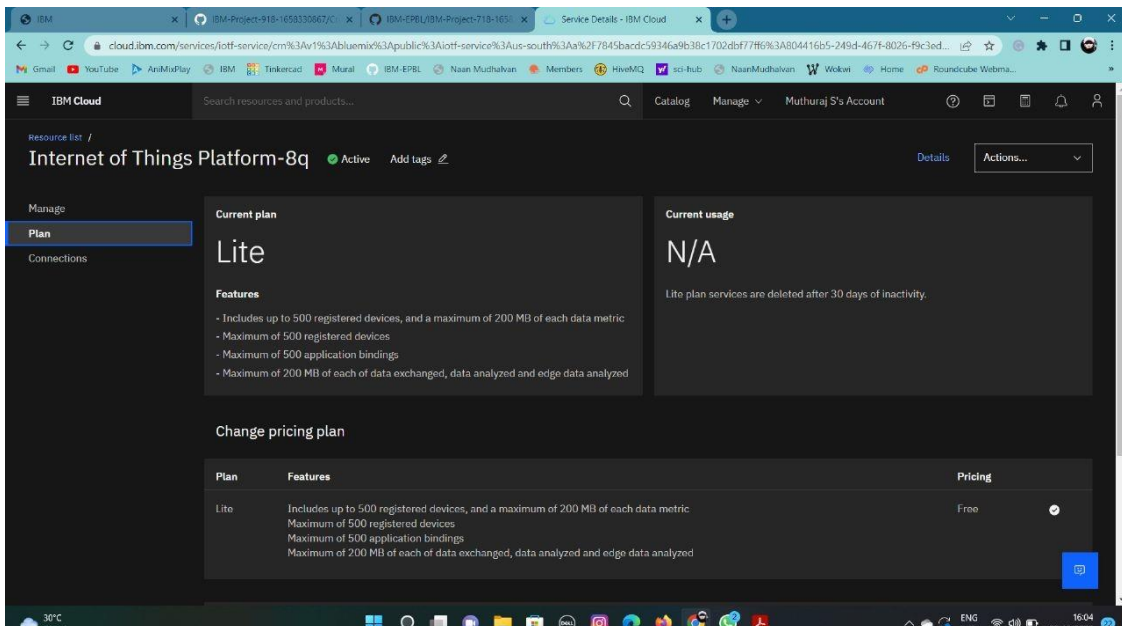


2. Home page of IBM cloud.

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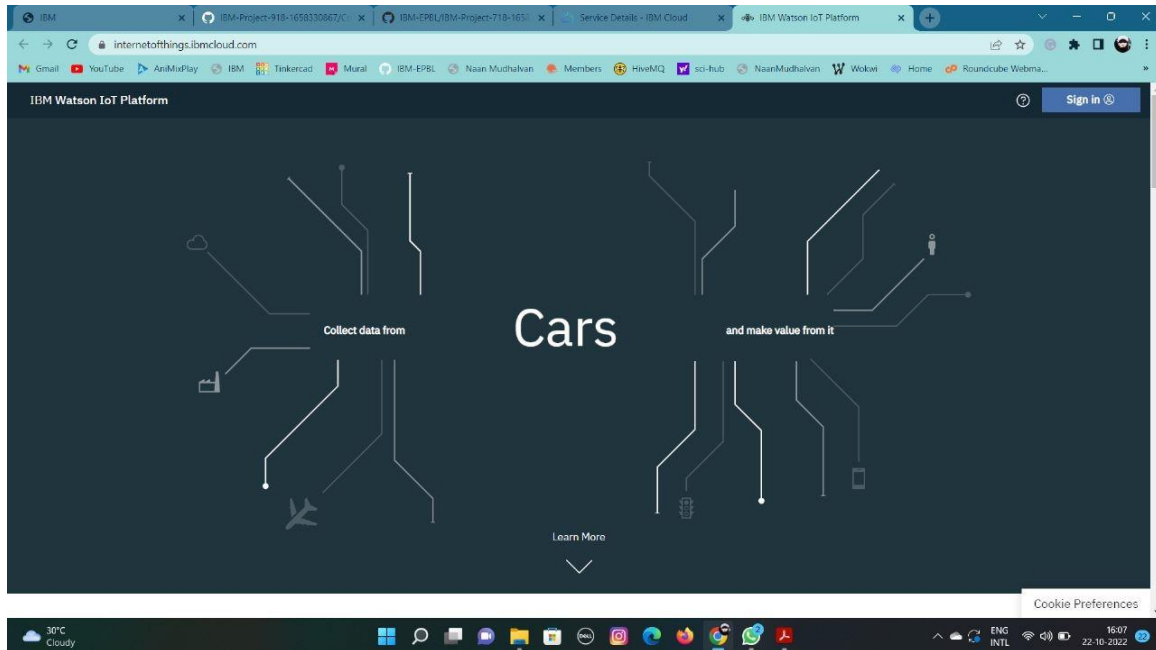


3. Internet of Things Platform Child_safety will be created, where there are different options like manage, plan, and connection.

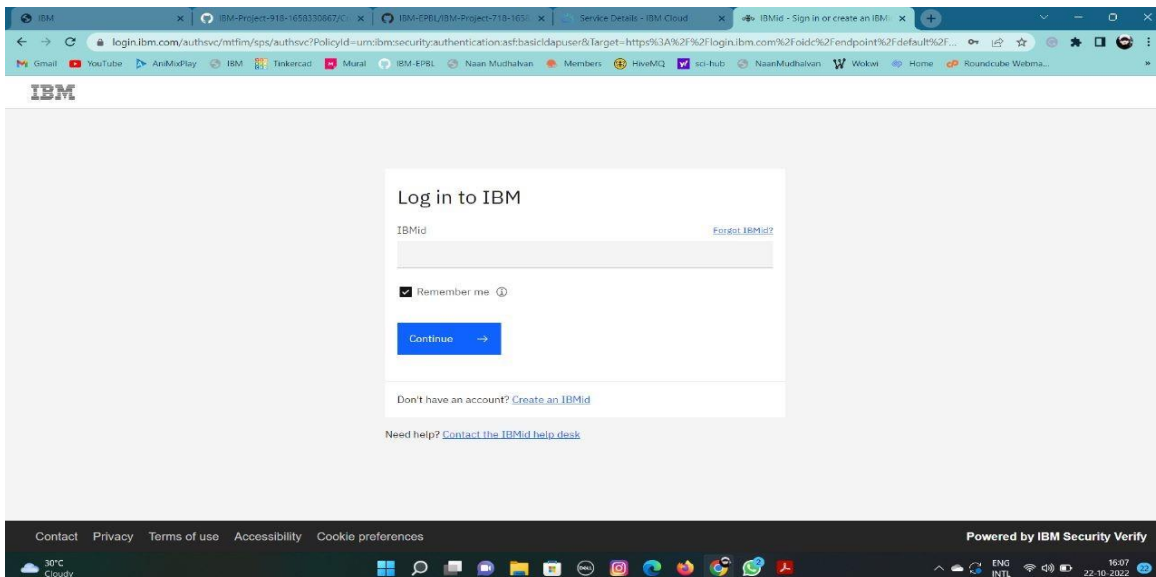


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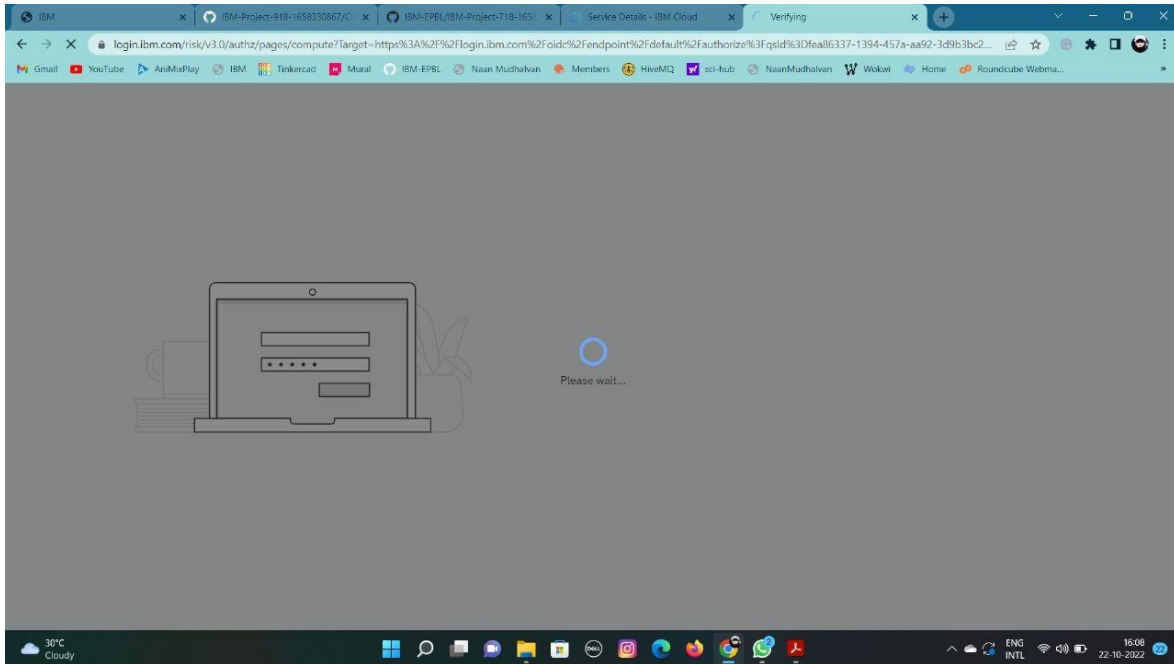
4. Clicking on the launch button in the manage tab, it will open to this.



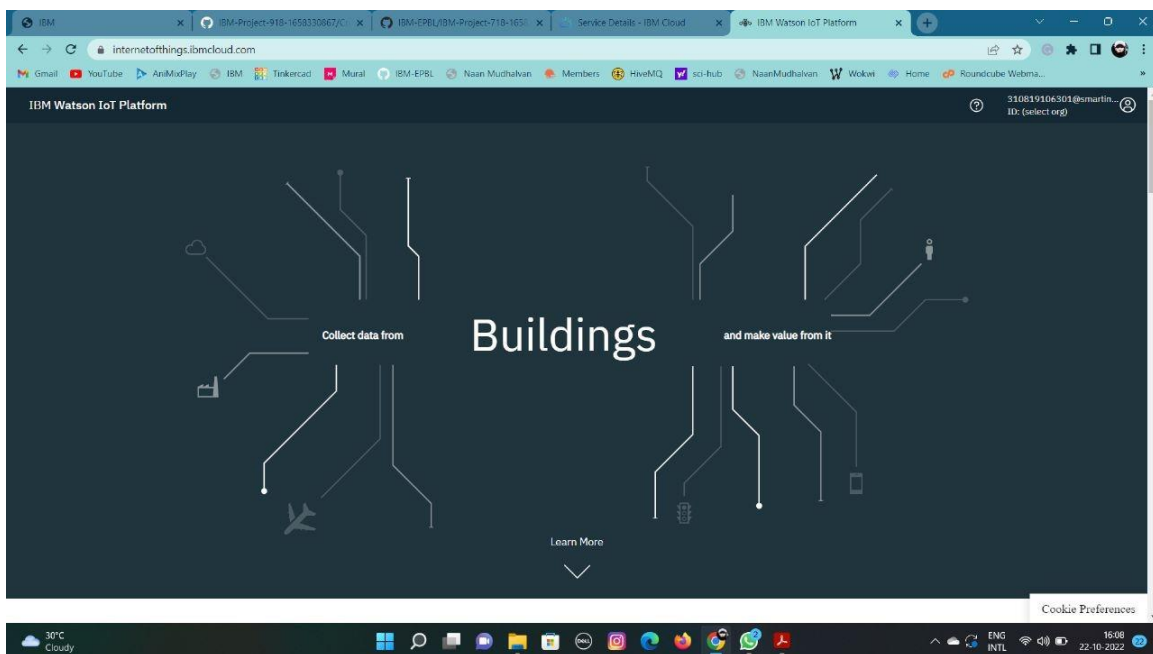
5. Enter the details to sign in to the Watson Cloud to create a device.



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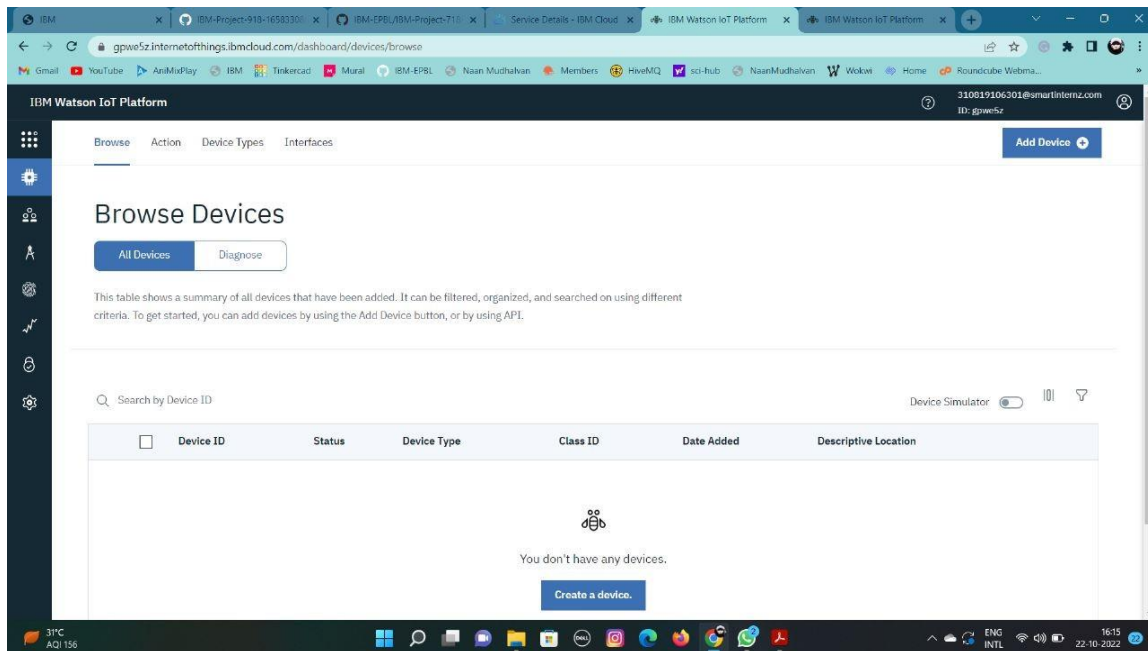


6. Once logged in the name will be displayed and it goes back to the first page.

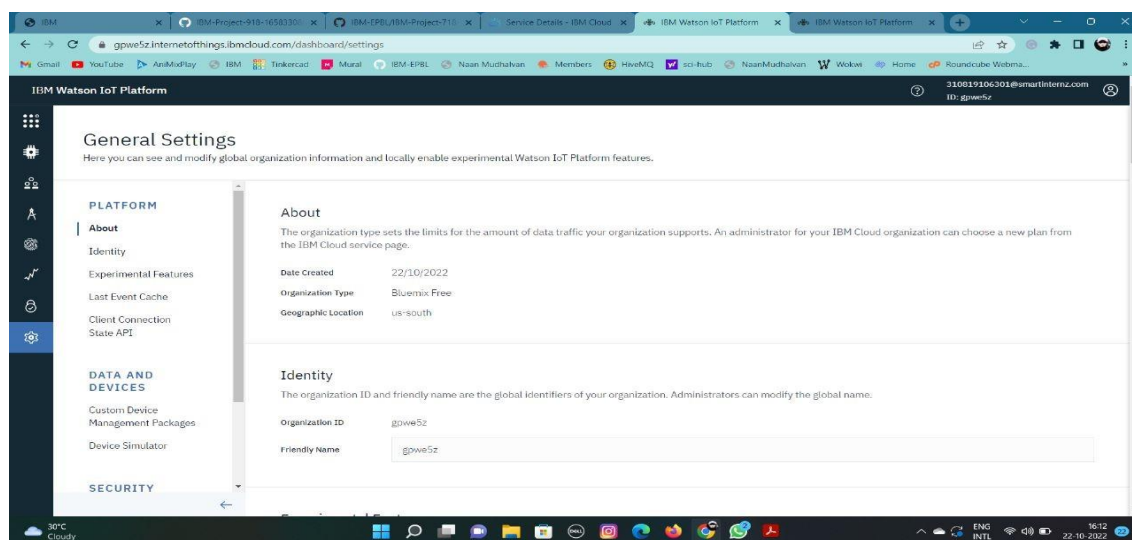


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7. And again clicking on the launch button will open this tab, the device will help in the creation of the devices, the addition of devices, and the display of details of the devices.

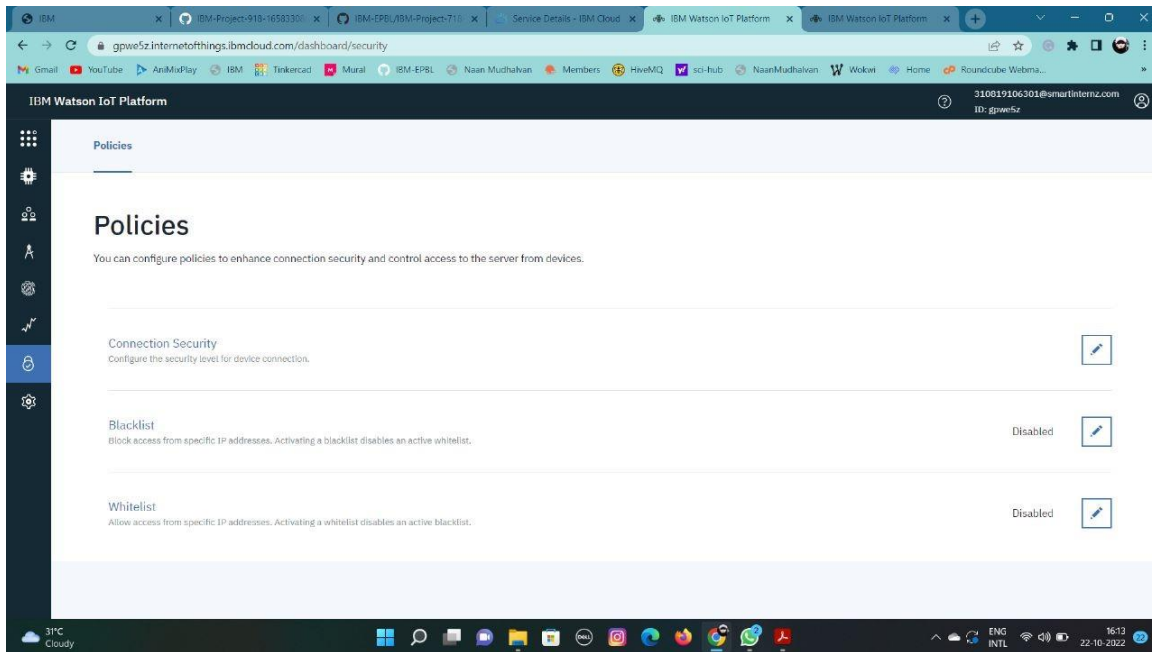


8. The setting tab is used to change the general setting if needed for the project.

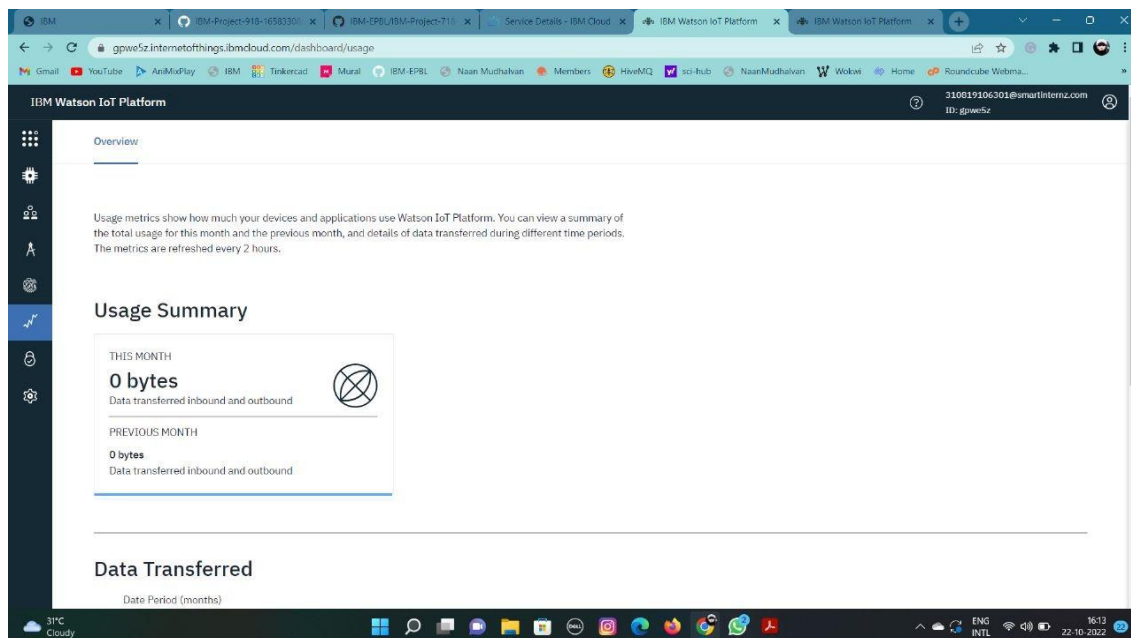


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9. the security tab we can choose the type of security connection and can change according to specification.

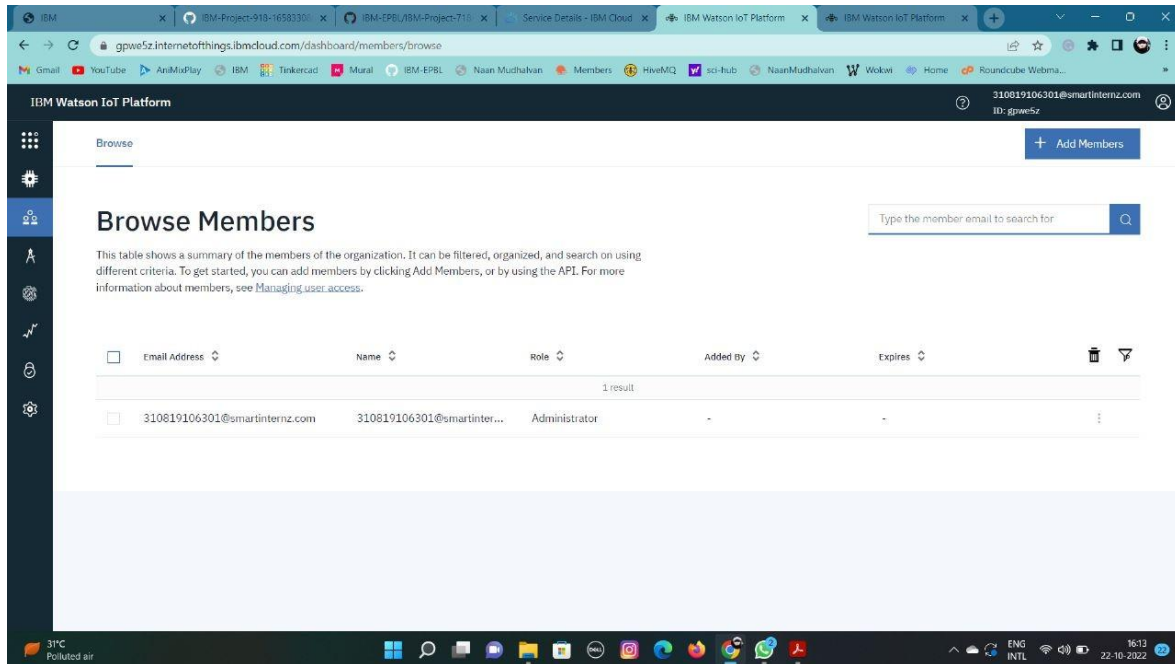


10. Usage gives the summary of how many bytes are used between the devices and the IBM cloud.

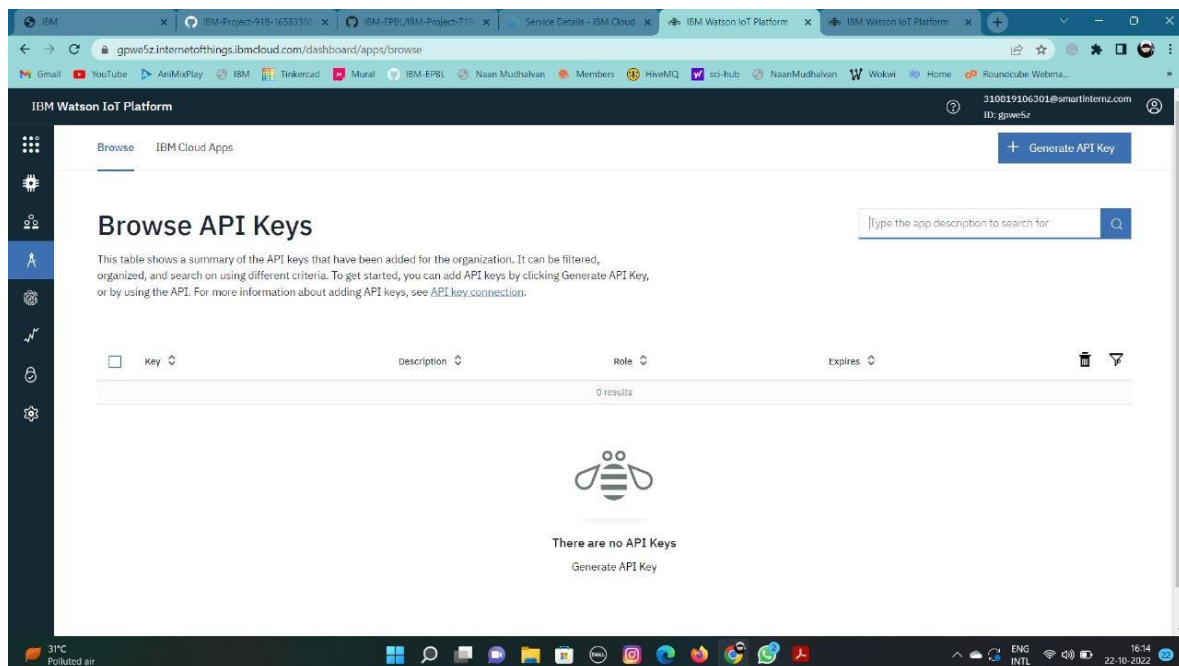


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11. The member tab is add the teams members to work in the platform.



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



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

IBM Watson IoT Platform

Browse Action Device Types Interfaces

Add Device

Browse Devices

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device Simulator

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
199795	Disconnected	Nodemcu	Device	22 Oct 2022 16:19	

Items per page 50 | 1-1 of 1 item

1 of 1 page

IBM Watson IoT Platform

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

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

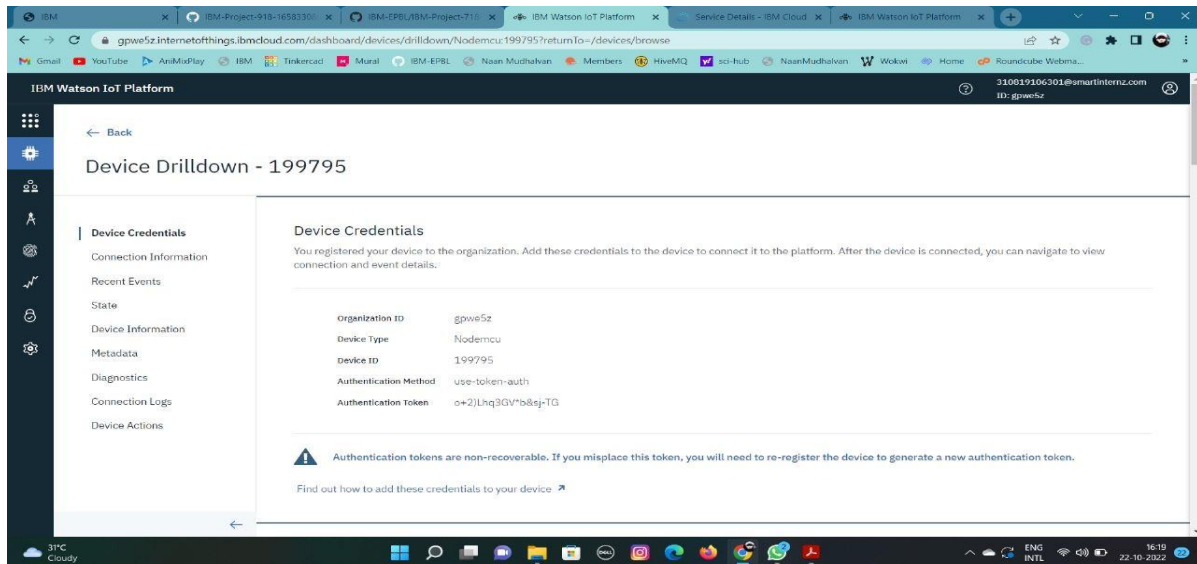
The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The progress bar indicates four steps: Identity (completed), Device Information (current step), Security, and Summary. The 'Device Information' step contains a message: 'You can modify the default device information and enter more information about the device for identification purposes.' Below this message are two columns of input fields. The left column includes 'Serial Number', 'Model', 'Description', and 'Hardware Version', each with a text input field and a placeholder text. The right column includes 'Manufacturer', 'Device Class', 'Firmware Version', and 'Descriptive Location', each with a text input field and a placeholder text. At the bottom left of the form is a button labeled 'Add Metadata'.

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

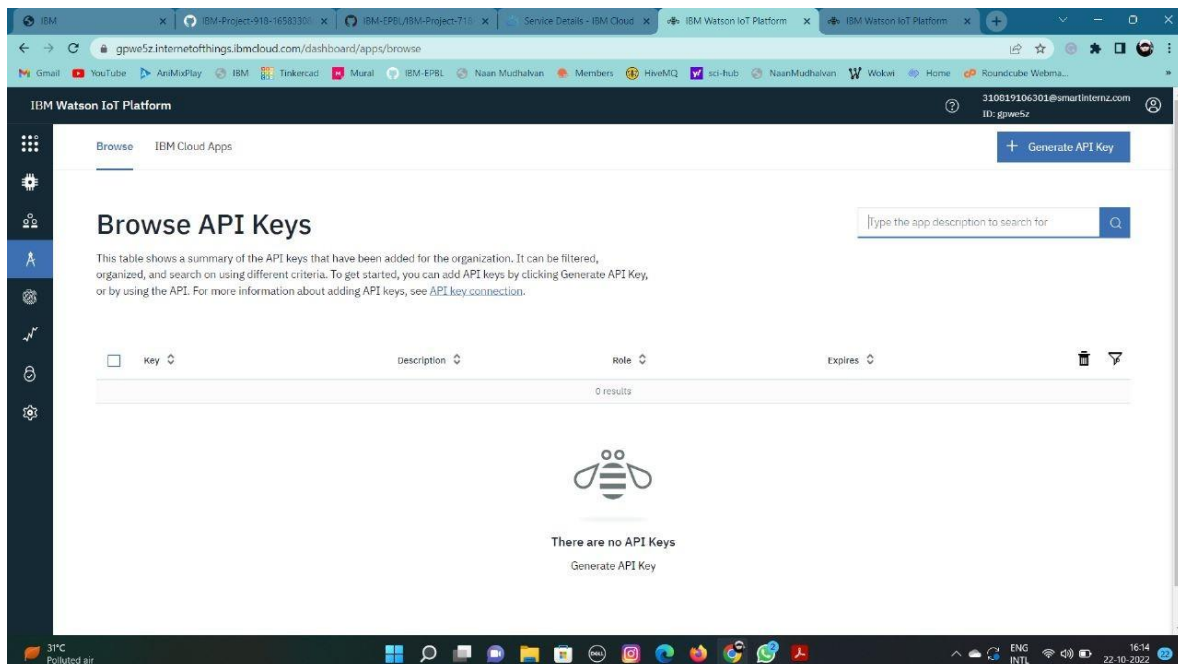
The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform, now at the 'Summary' step. The progress bar shows all four steps (Identity, Device Information, Security, and Summary) as completed. The 'Summary' step contains a message: 'Verify that the following information is correct then select Finish'. Below this message is a list of device details: 'Device Type: NodeMCU', 'Device ID: 199795', and 'Security Token: To be generated'. There is a 'View Metadata' button next to the Device ID. At the bottom right of the form are two buttons: 'Back' and 'Finish'.

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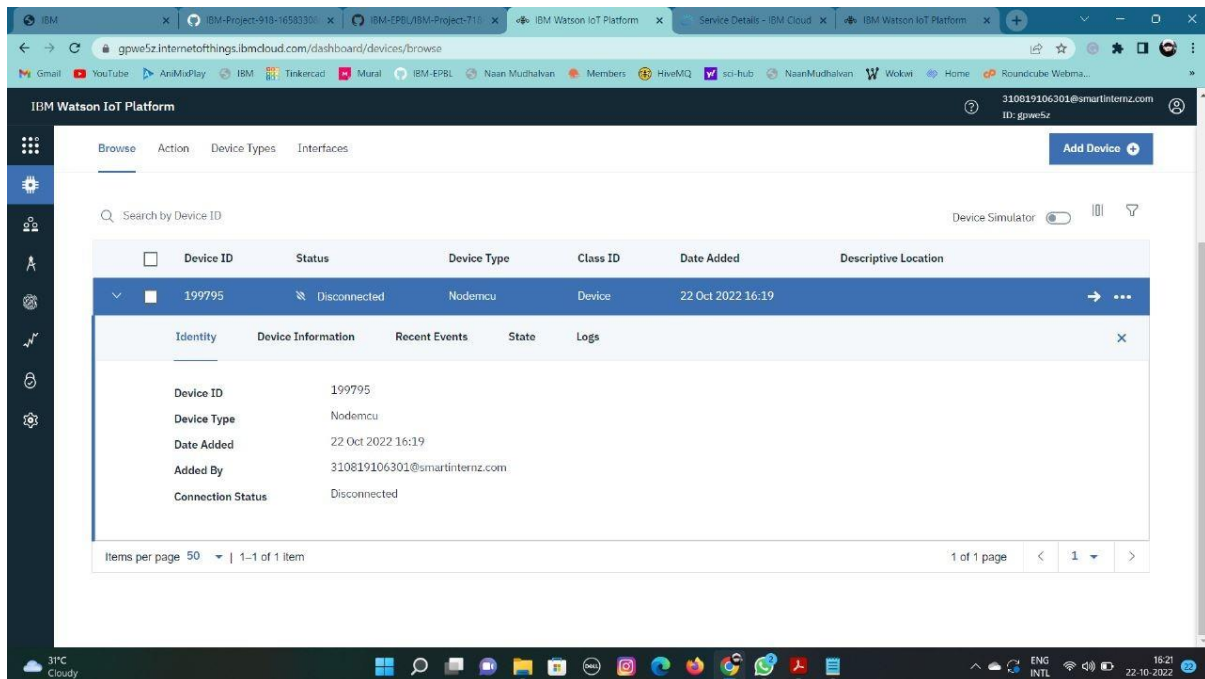
16. The device credentials will be displayed with all the details.



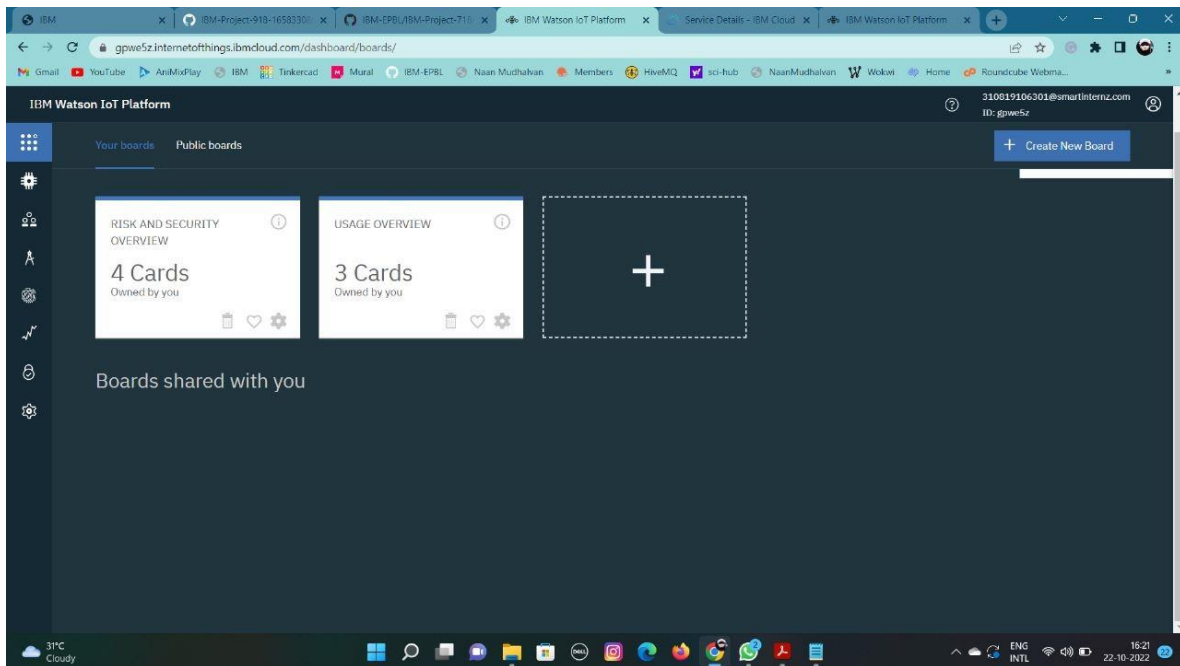
17. Clicking on the device tab we can now see the added device. Clicking on it will display the other details.



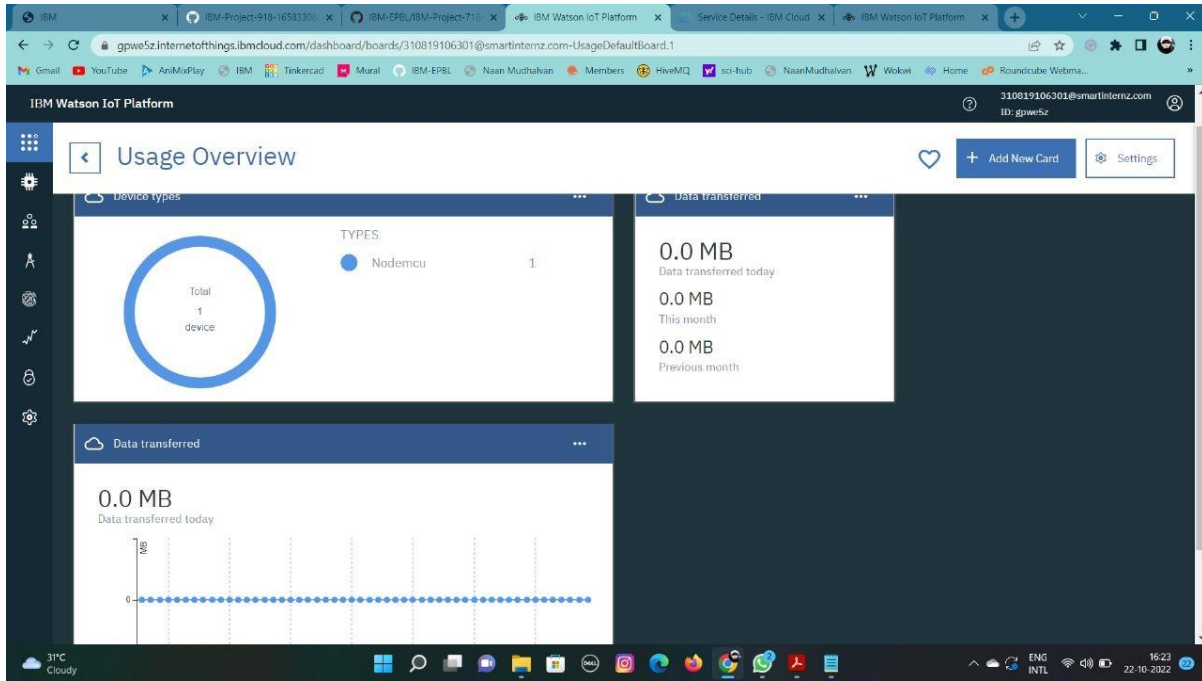
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18. The Boards will display card for the project.



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RESULT:

An IBM Watson cloud for IoT and a device is created.