

Team ID PNT2022TMID53923

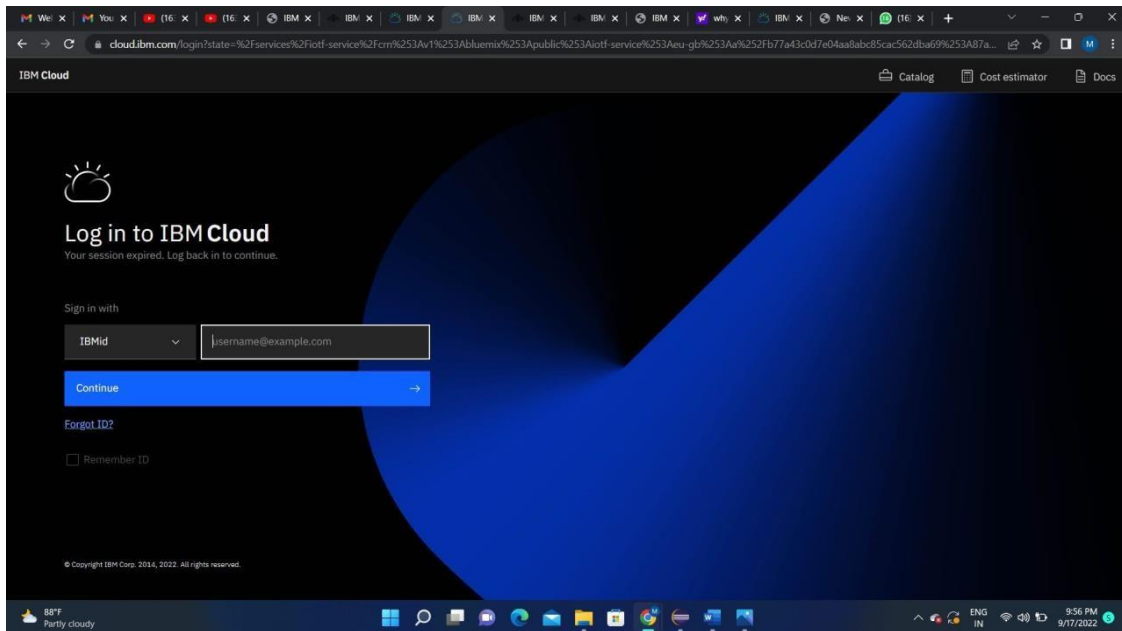
CREATE IBM WATSON IOT PLATFORM AND DEVICE

AIM:

To create the IBM Watson IoT platform and device.

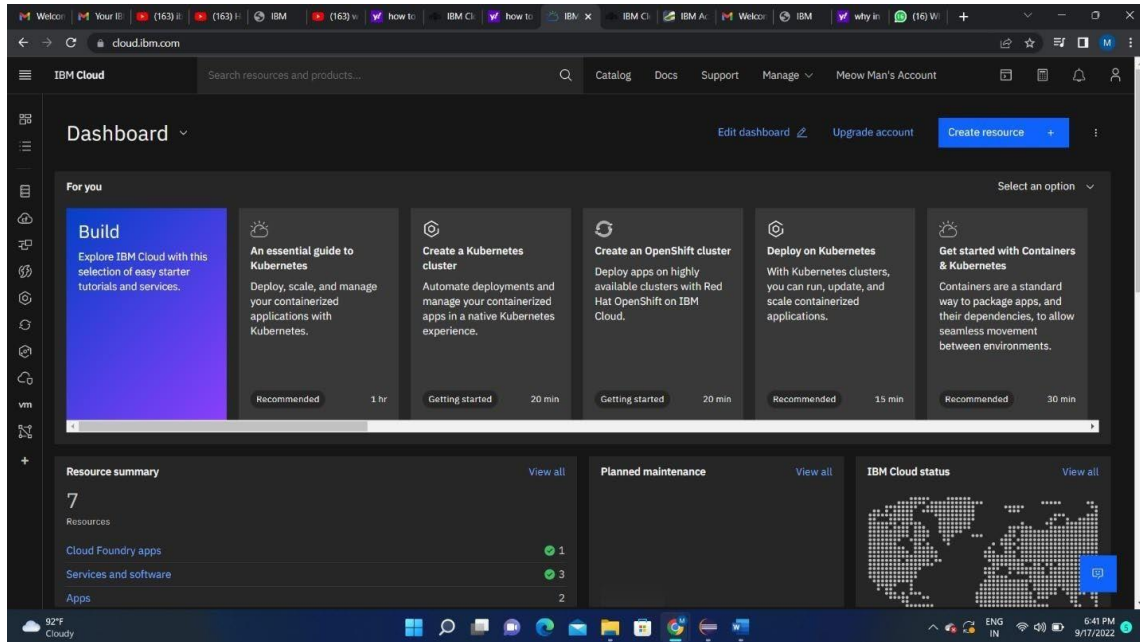
STEPS:

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

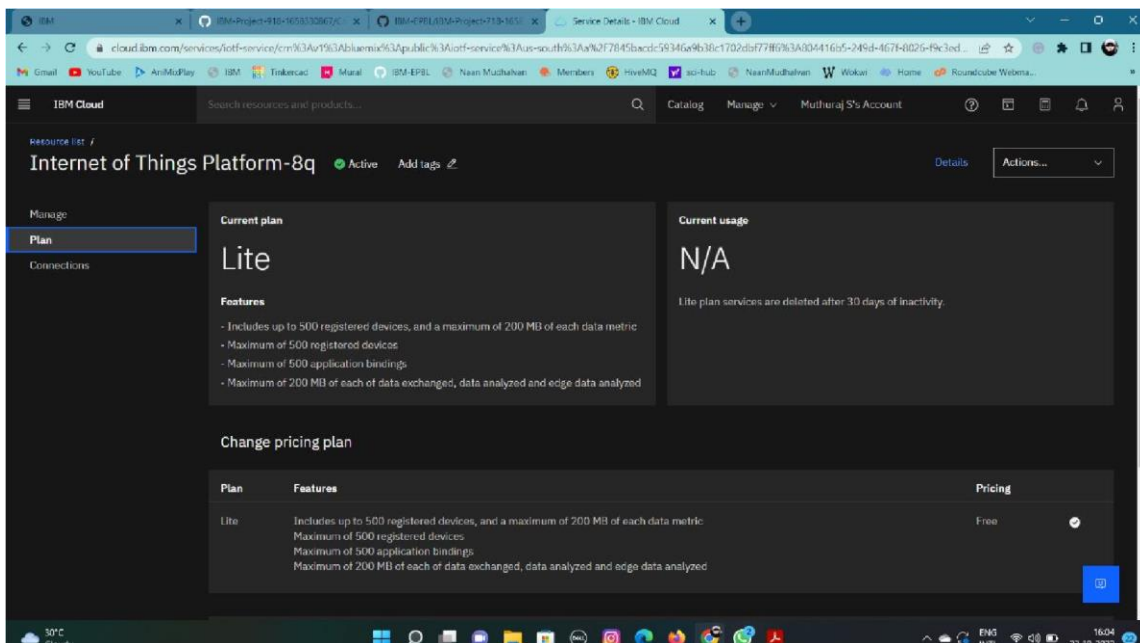


2. Home page of IBM cloud.

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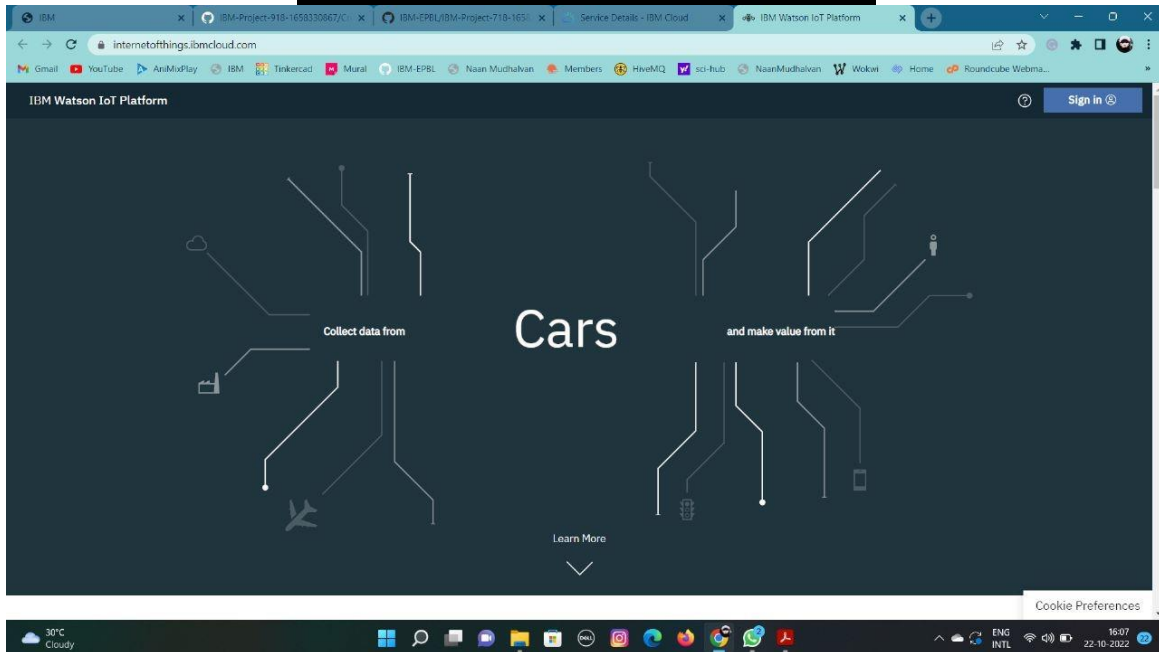


3. Internet of Things Platform Child_safety will be created, where there are different options like manage, plan, and connection.

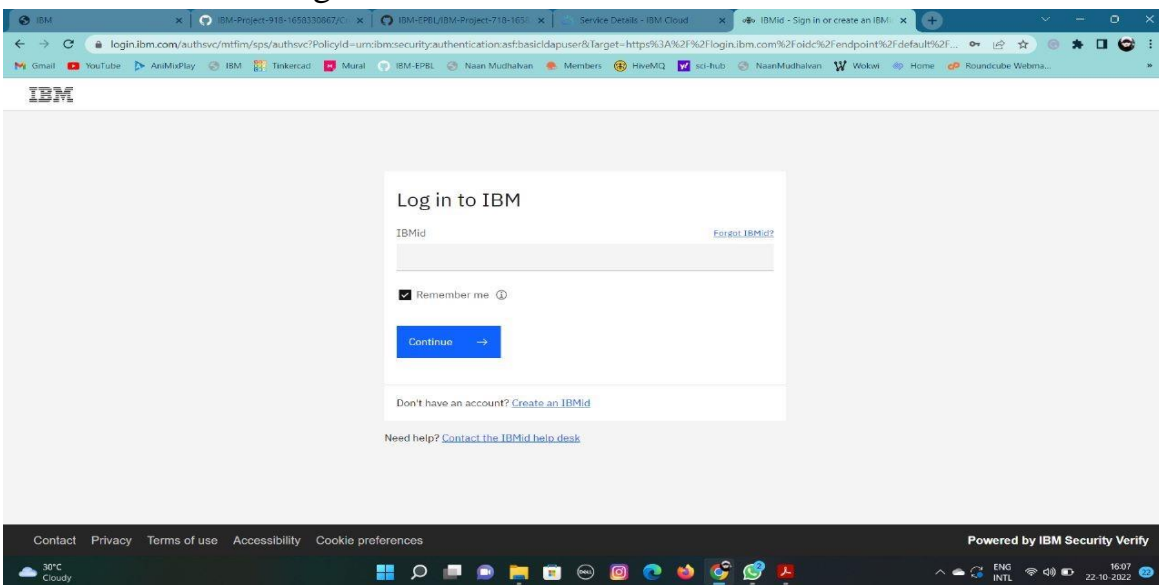


4. Clicking on the launch button in the manage tab, it will open to this.

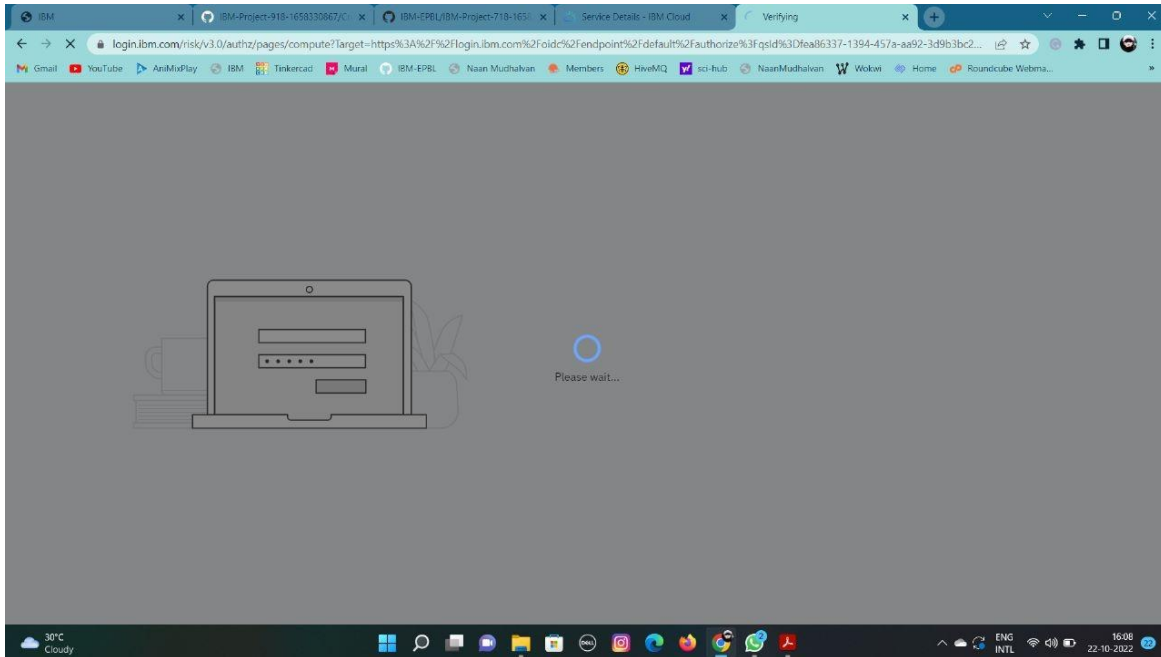
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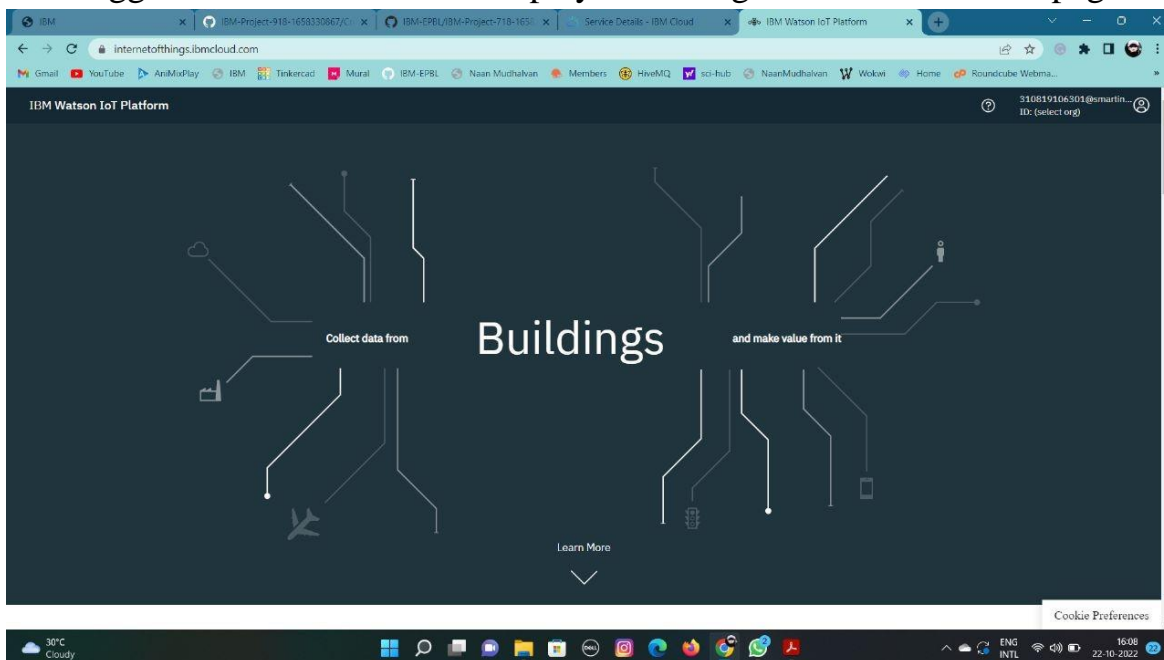
5. Enter the details to sign in to the Watson Cloud to create a device.



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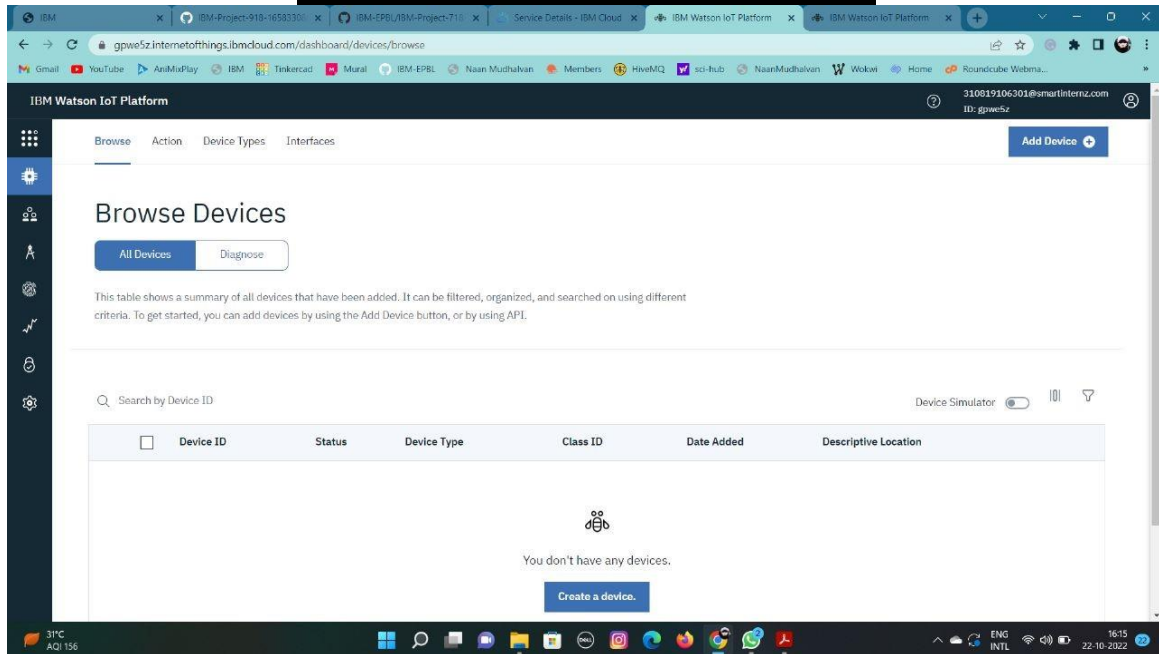


6. Once logged in the name will be displayed and it goes back to the first page.

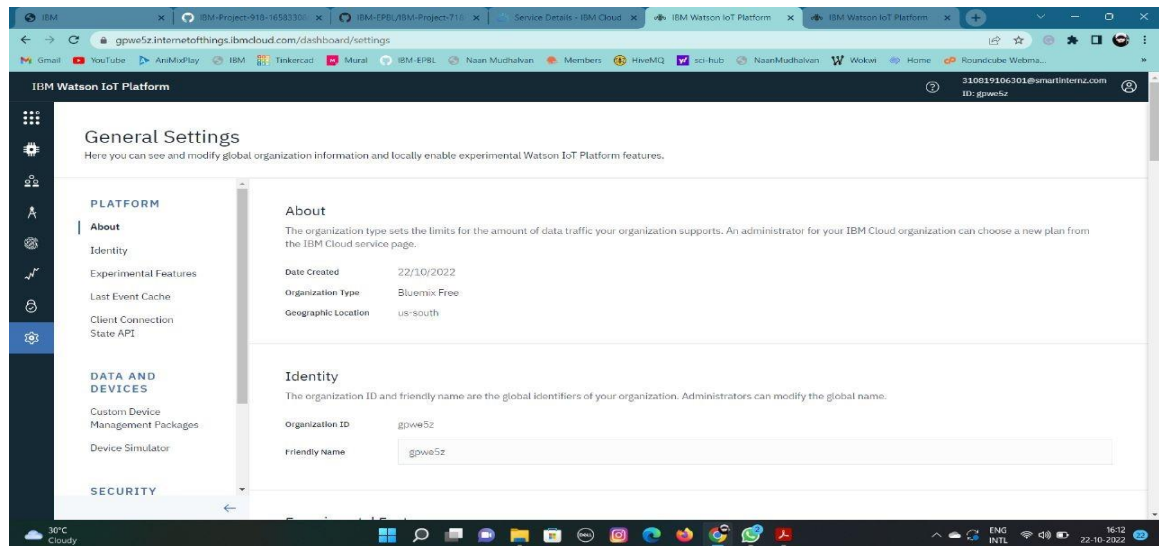


7. And again clicking on the launch button will open this tab, the device will help in the creation of the devices, the addition of devices, and the display of details of the devices.

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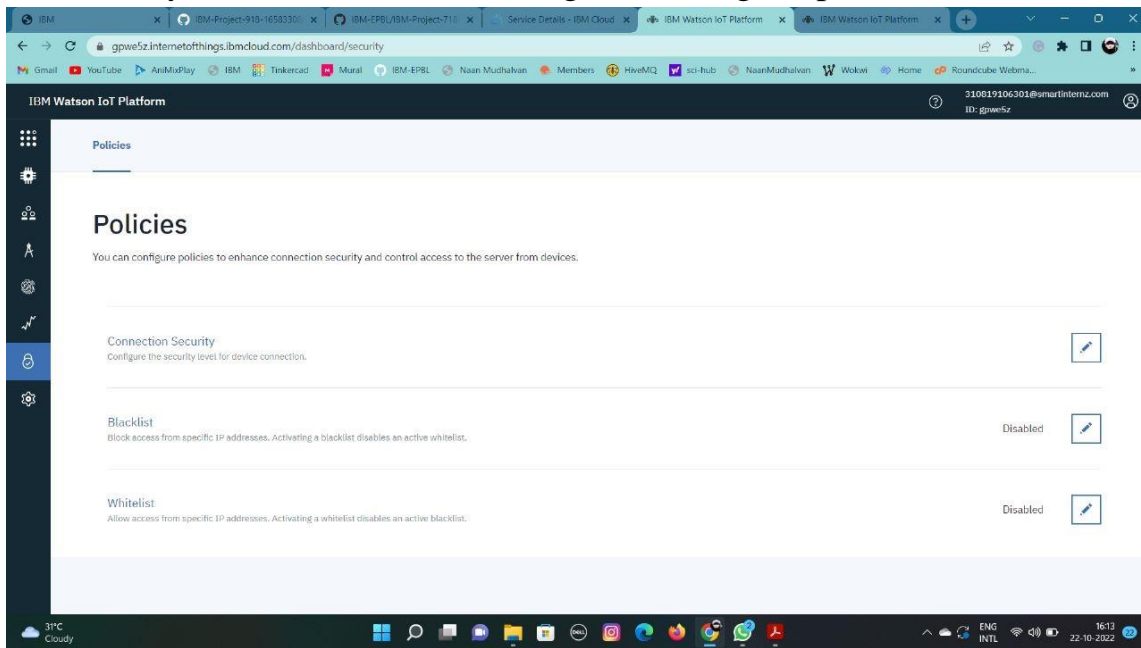


8.The setting tab is used to change the general setting if needed for the project.



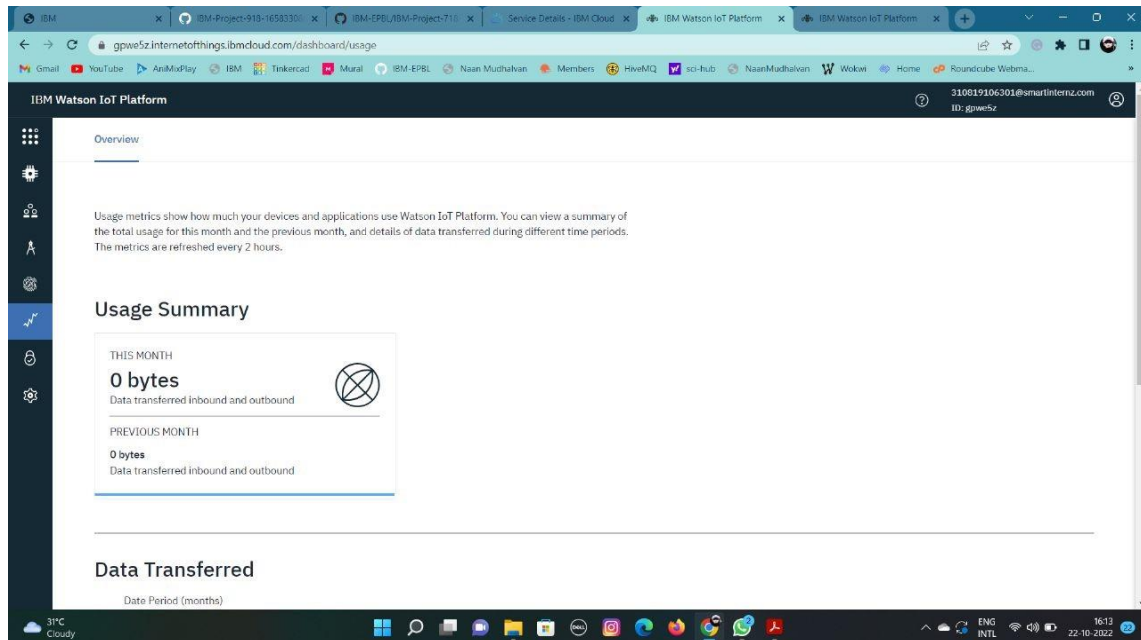
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9. the security tab we can choose the type of security connection and can change according to specification.

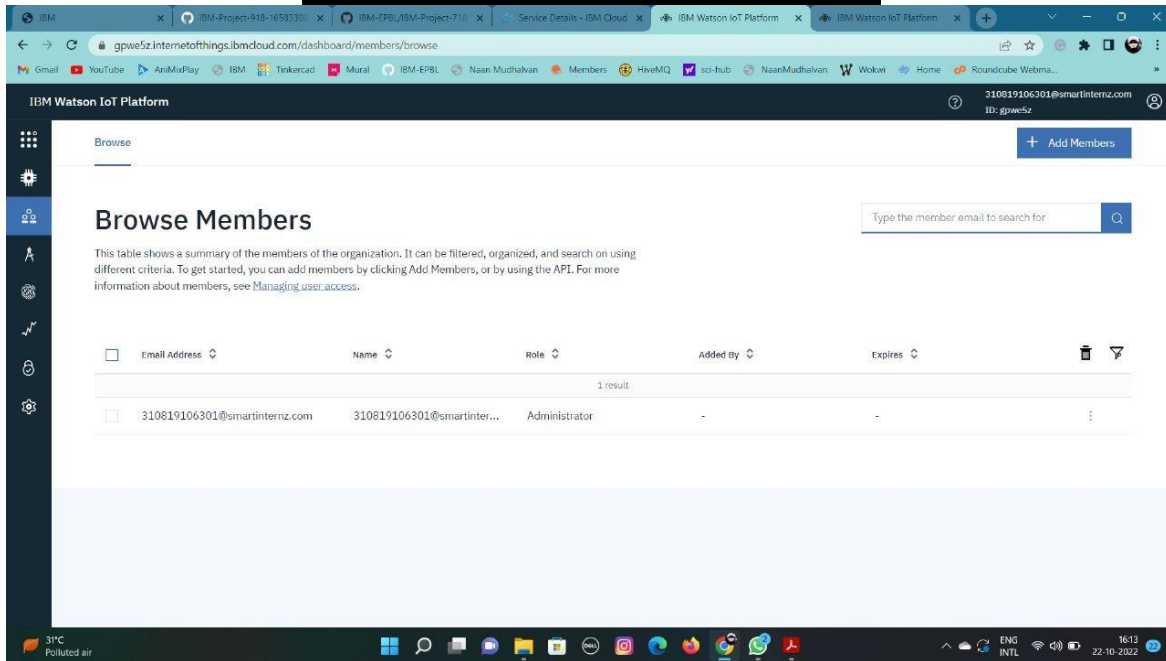


10. Usage gives the summary of how many bytes are used between the devices and the IBM cloud.

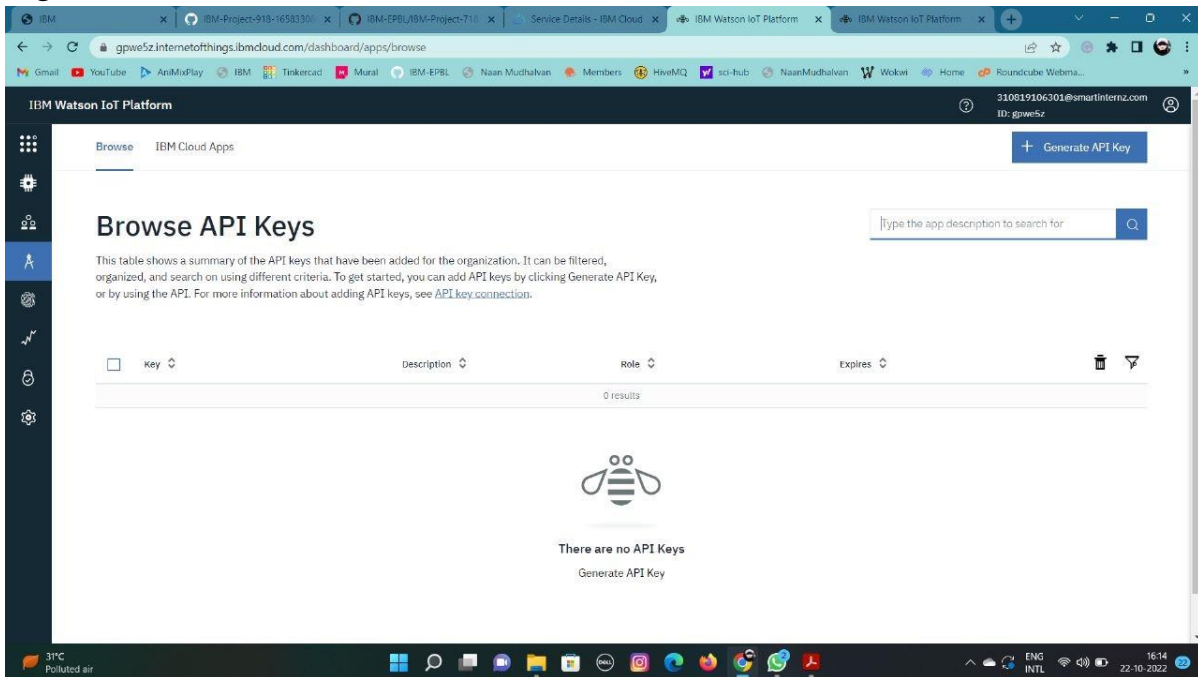
11. The member tab is add the teams members to work in the platform.



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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 that the 'Device Information' step is currently active, while 'Identity', 'Security', and 'Summary' are completed or pending. The 'Device Information' section contains several input fields for device details:

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

There is an 'Add Metadata' button at the bottom left of the form.

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

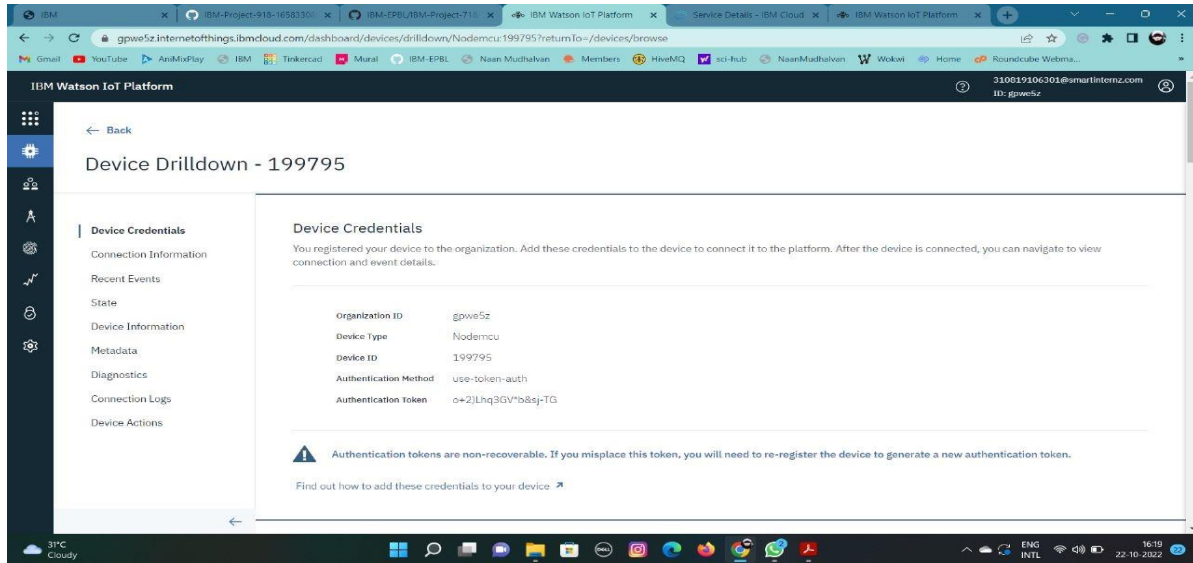
The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform, now at the 'Summary' step. The progress bar shows that 'Identity', 'Device Information', and 'Security' are completed, and 'Summary' is the current step. The 'Summary' section displays the information entered in the previous steps:

- Device Type: NodeMCU
- Device ID: 199795
- Security Token: To be generated

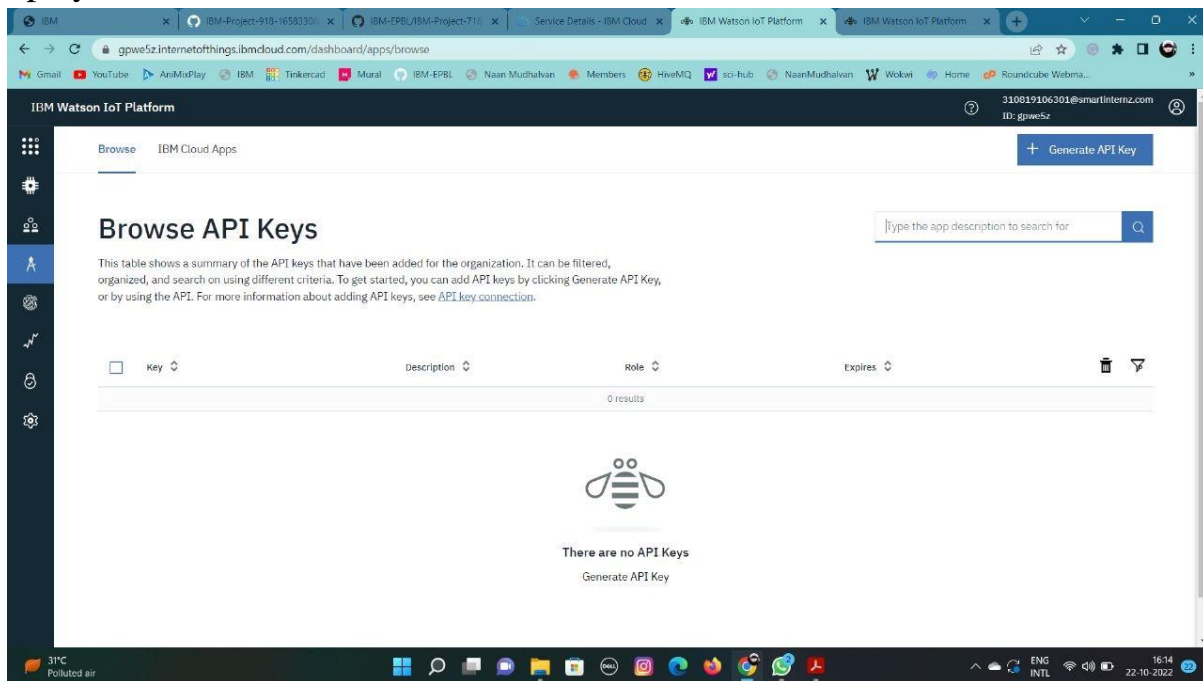
There is a 'View Metadata' button below the device information. At the bottom right of the form, there are 'Back' and 'Finish' buttons.

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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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The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar is present with the text 'Search by Device ID'. Below the search bar is a table listing devices. The table has columns: Device ID, Status, Device Type, Class ID, Date Added, and Descriptive Location. One device is listed with ID 199795, Status Disconnected, and Device Type Nodemcu. Below the table, a detailed view for the selected device is shown, including fields for Device ID, Device Type, Date Added, Added By, and Connection Status.

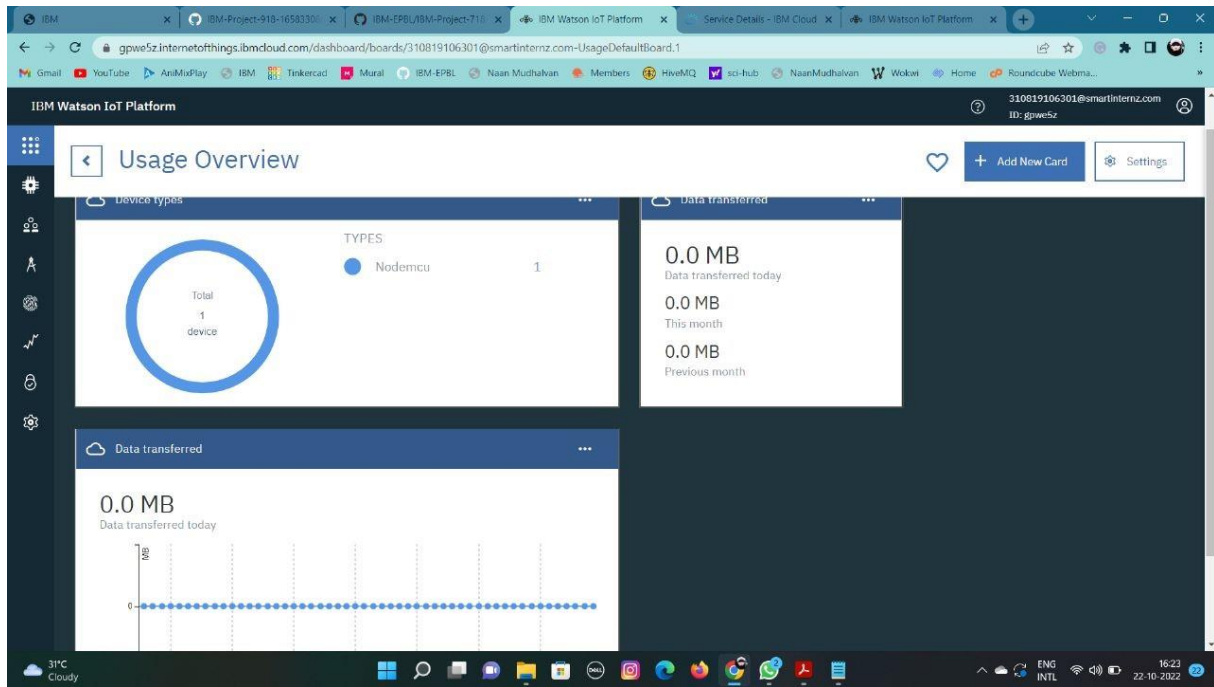
| Device ID | Status | Device Type | Class ID | Date Added | Descriptive Location |
|-----------|--------------|-------------|----------|-------------------|----------------------|
| 199795 | Disconnected | Nodemcu | Device | 22 Oct 2022 16:19 | |

| Identity | Device Information | Recent Events | State | Logs |
|-------------------|-------------------------------|---------------|-------|------|
| Device ID | 199795 | | | |
| Device Type | Nodemcu | | | |
| Date Added | 22 Oct 2022 16:19 | | | |
| Added By | 310819106301@smartinternz.com | | | |
| Connection Status | Disconnected | | | |

18.The Boards will display card for the project.

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes tabs for 'Your boards' and 'Public boards'. A 'Create New Board' button is visible. Below the navigation bar, there are two cards: 'RISK AND SECURITY OVERVIEW' with 4 cards and 'USAGE OVERVIEW' with 3 cards. Both cards are owned by the user. A large dashed box with a plus sign is also present, indicating a placeholder for a new board. Below the cards, the text 'Boards shared with you' is displayed.

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RESULT:

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