

Team ID PNT2022TMID27063

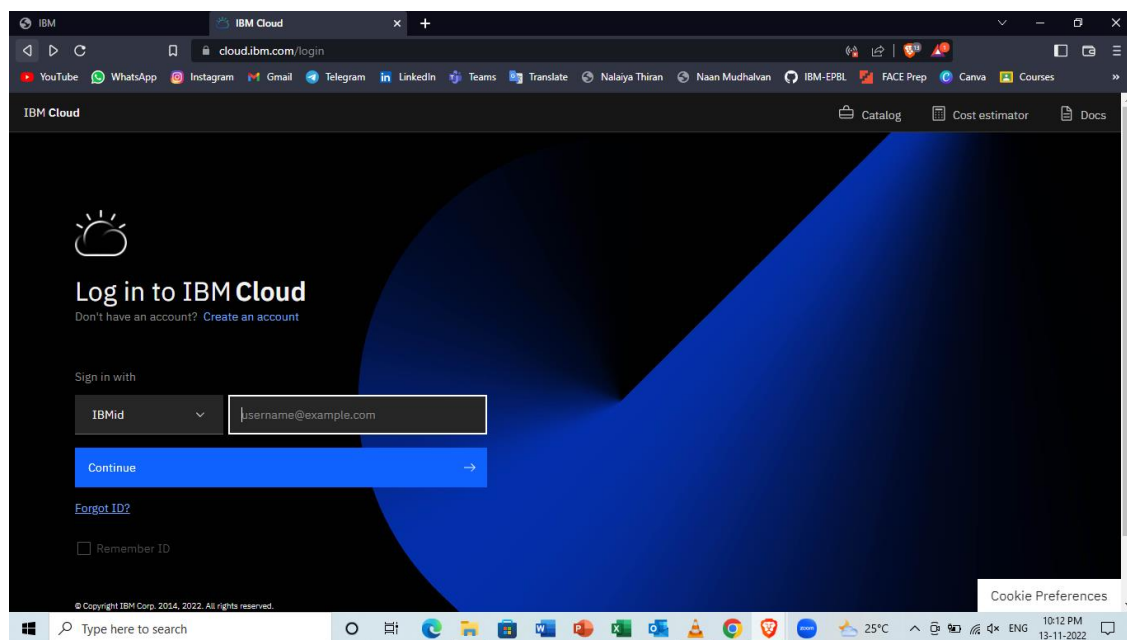
CREATE IBM WATSON IOT PLATFORM AND DEVICE

AIM:

To create the IBM Watson IoT platform and device.

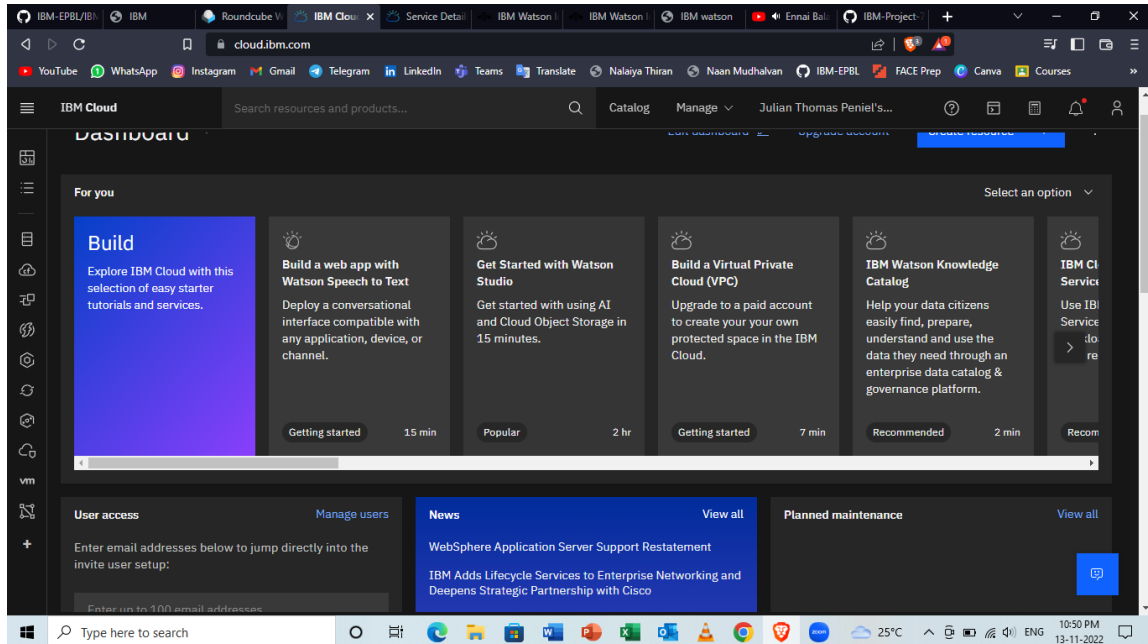
STEPS:

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

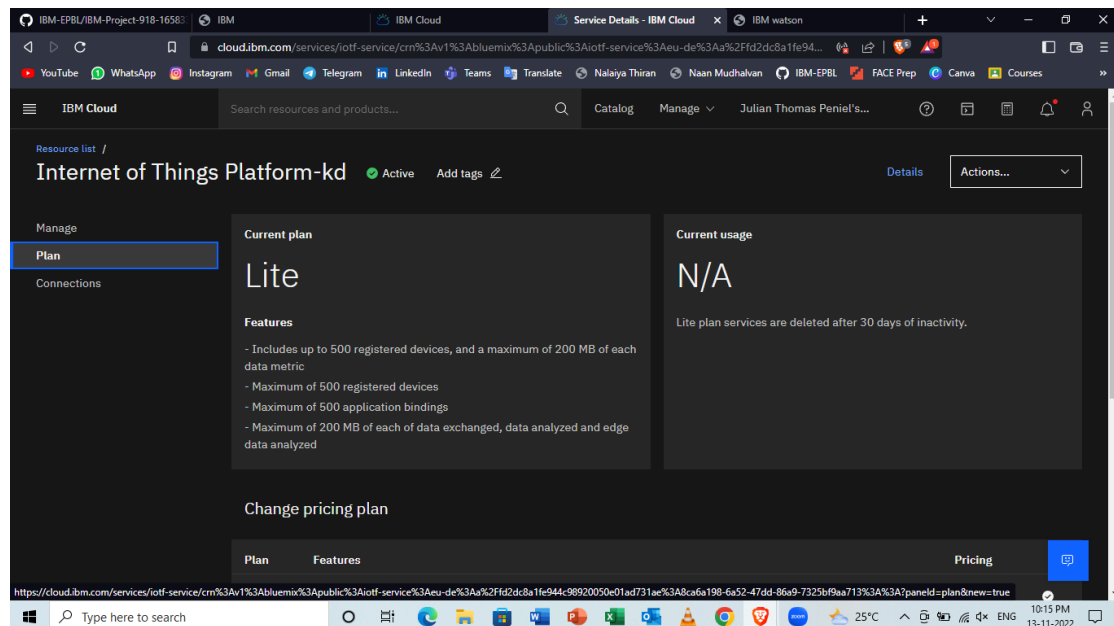


2. Home page of IBM cloud.

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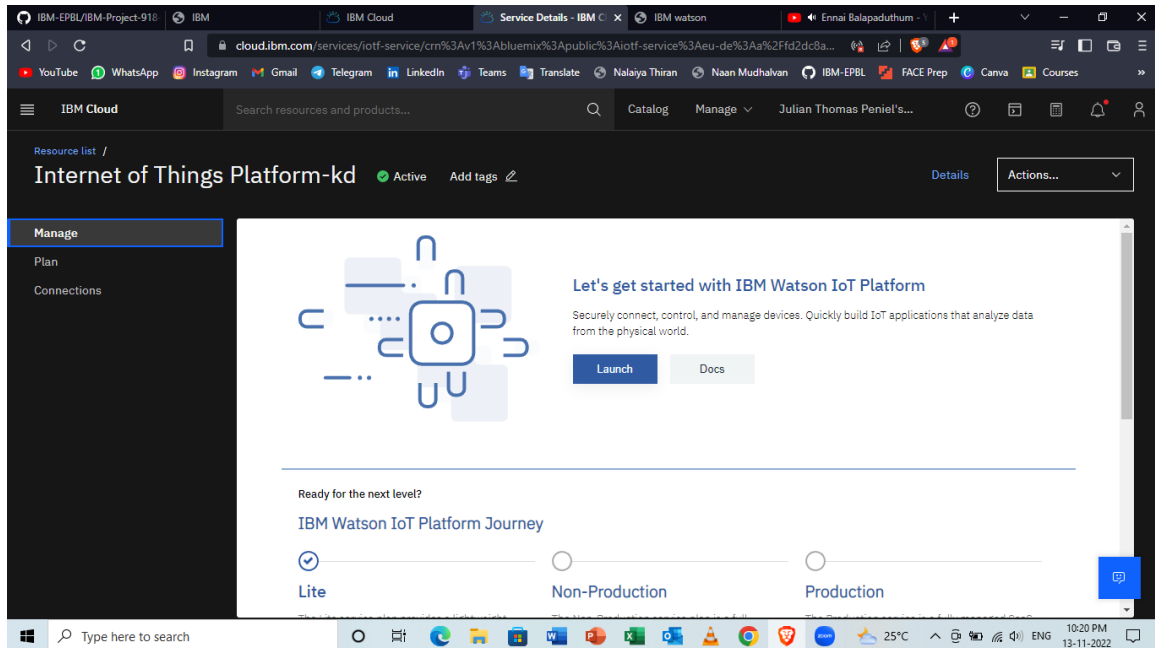


3. Internet of Things Platform Child safety will be created, where there are different options like manage, plan, and connection.

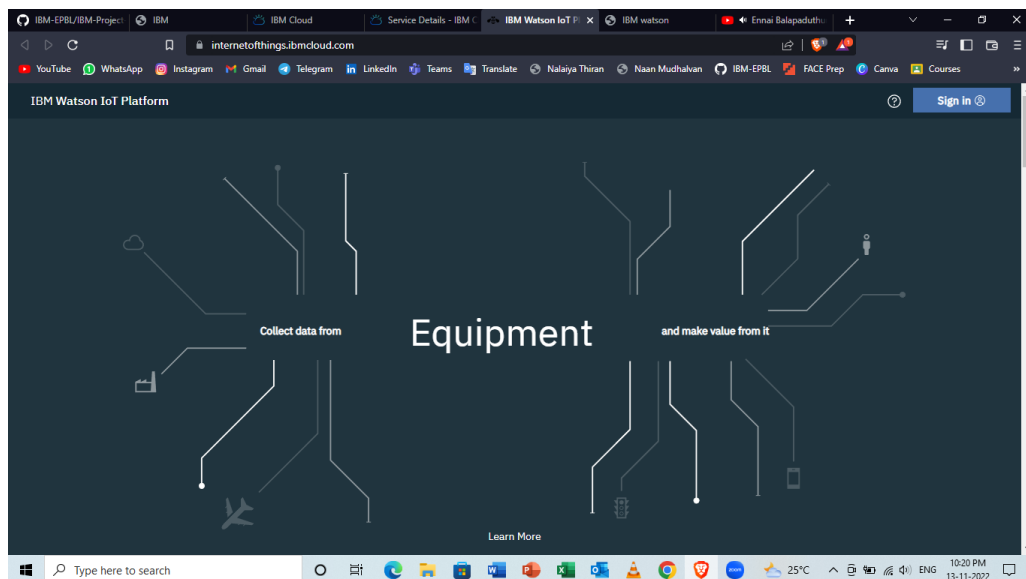


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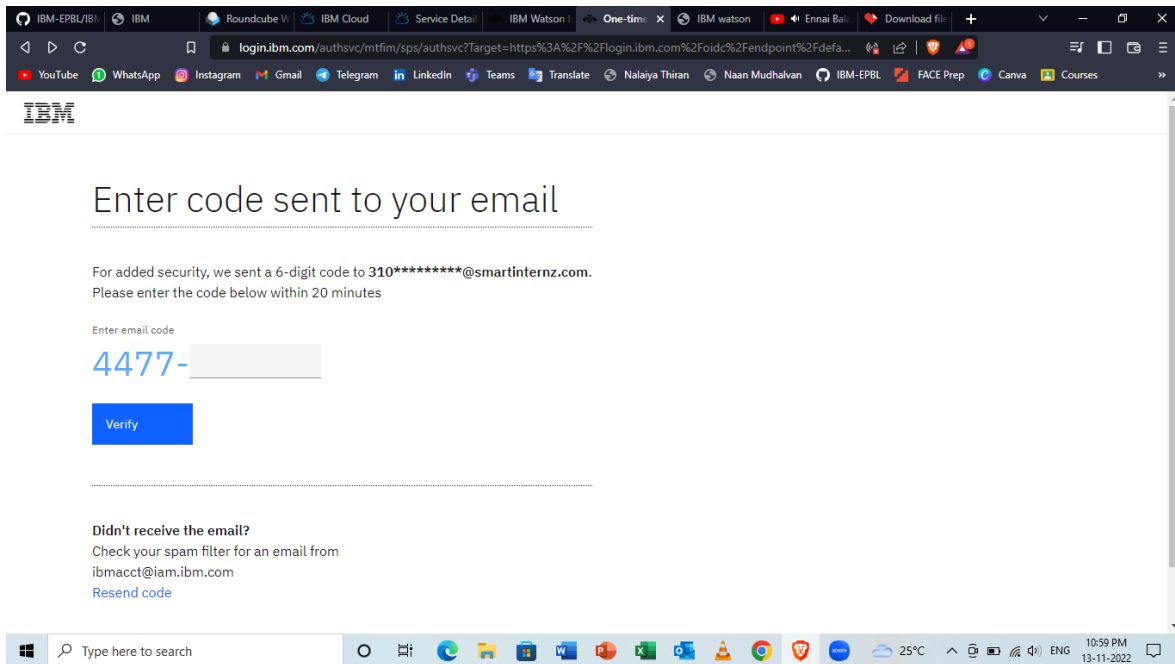
4. Clicking on the launch button in the manage tab, it will open to this.



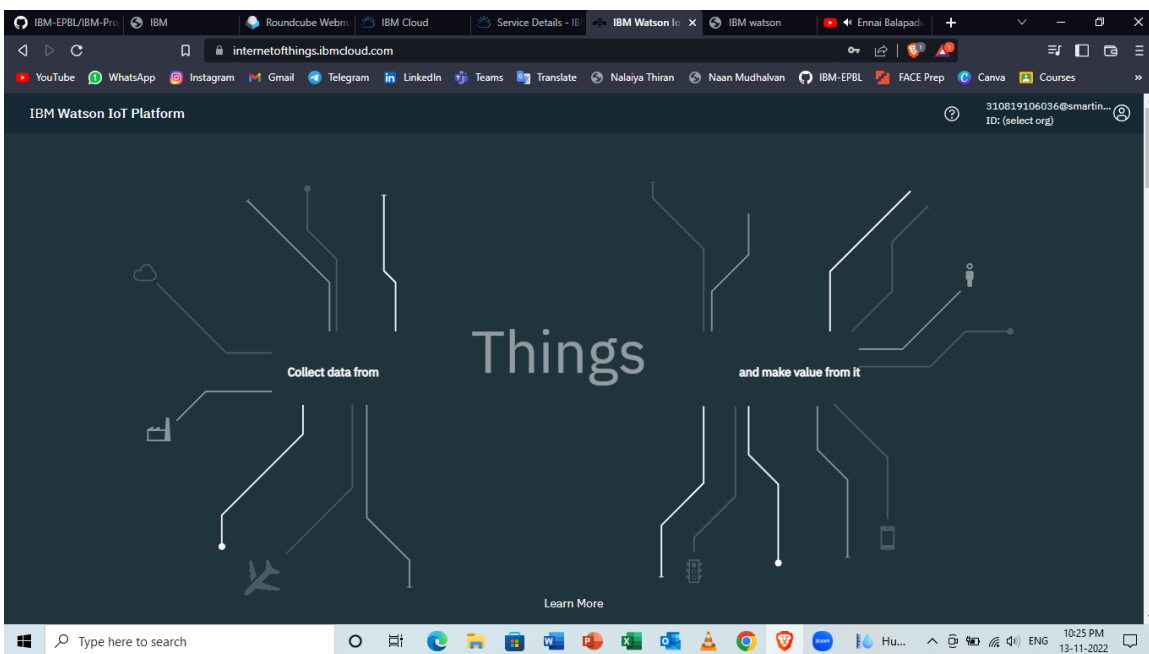
5. Enter the details to sign in to the Watson Cloud to create a device.



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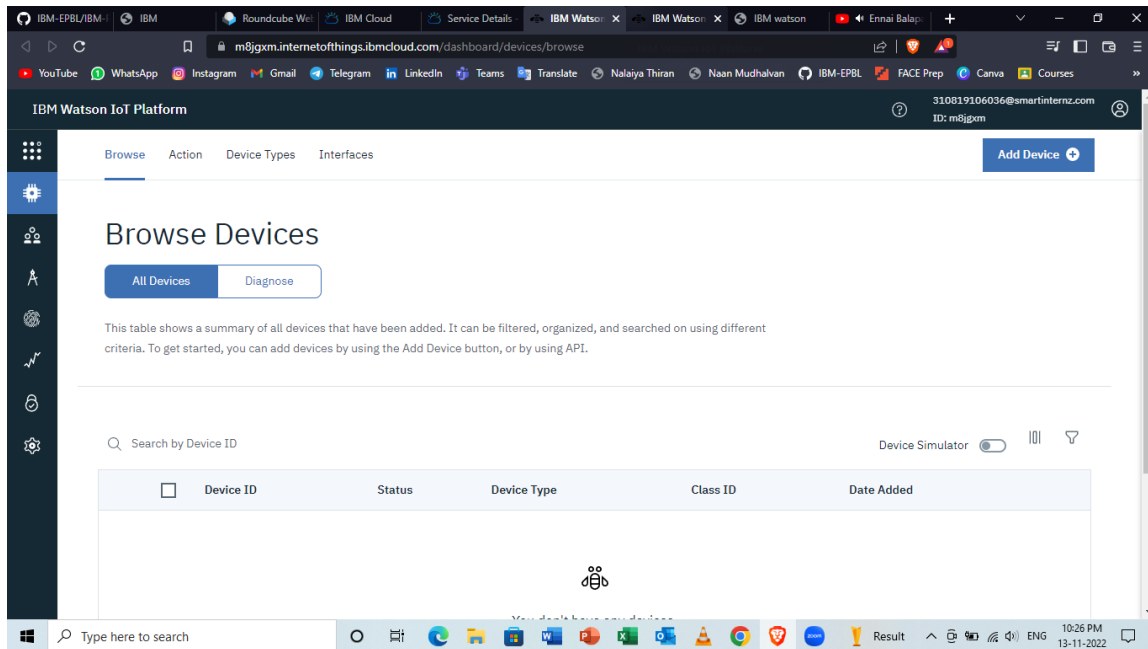


6. Once logged in the name will be displayed and it goes back to the first page.

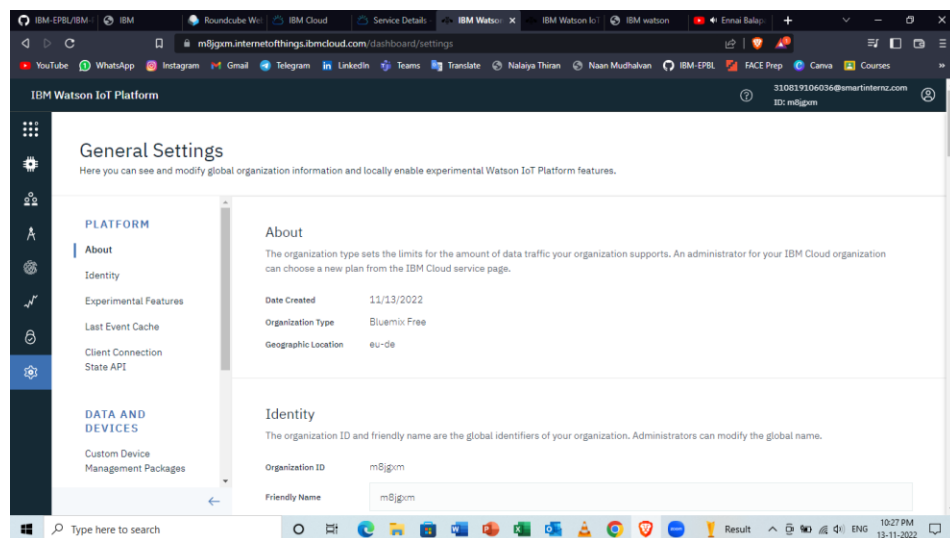


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7. And again clicking on the launch button will open this tab, the device will help in the creation of the devices, the addition of devices, and the display of details of the devices.

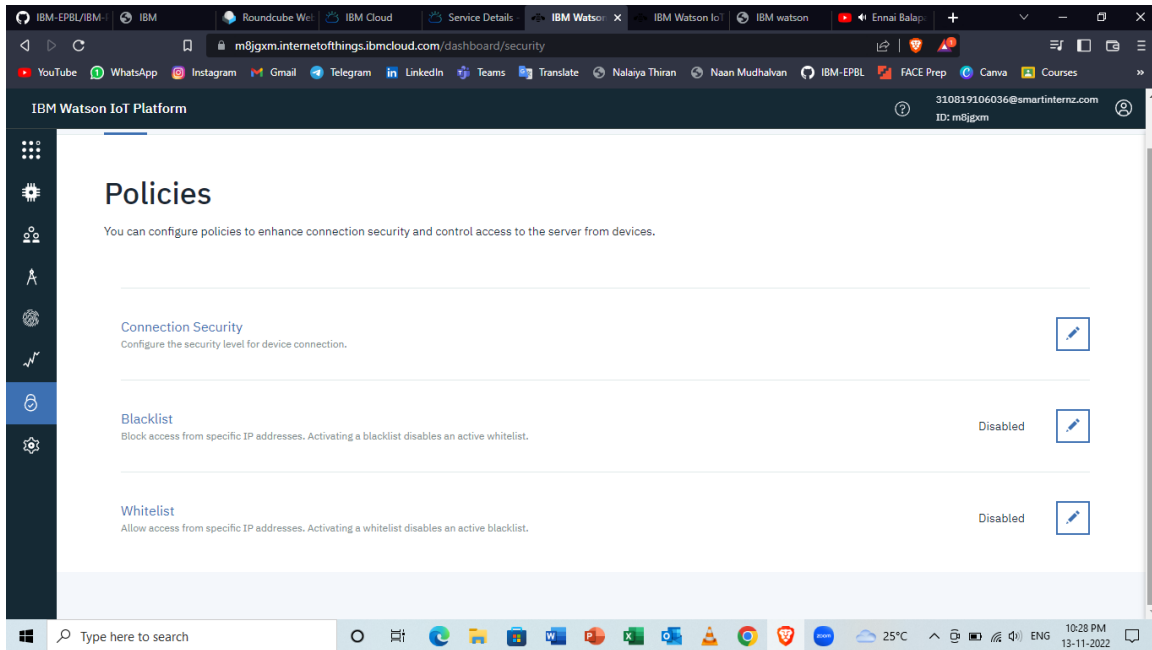


8. The setting tab is used to change the general setting if needed for the project.

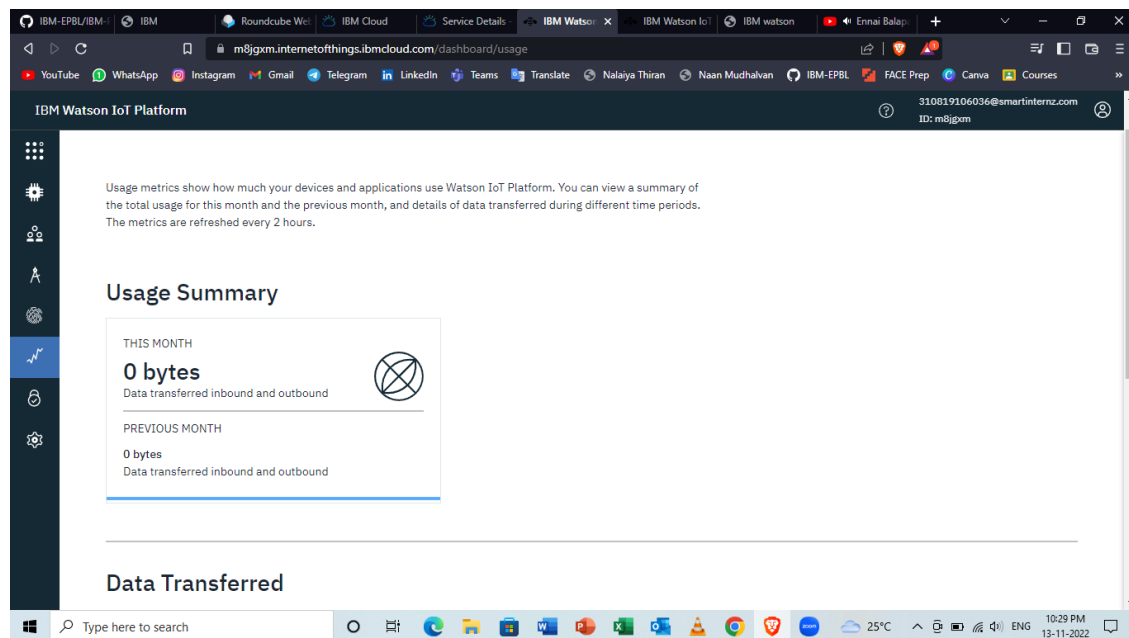


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9. the security tab we can choose the type of security connection and can change according to specification.

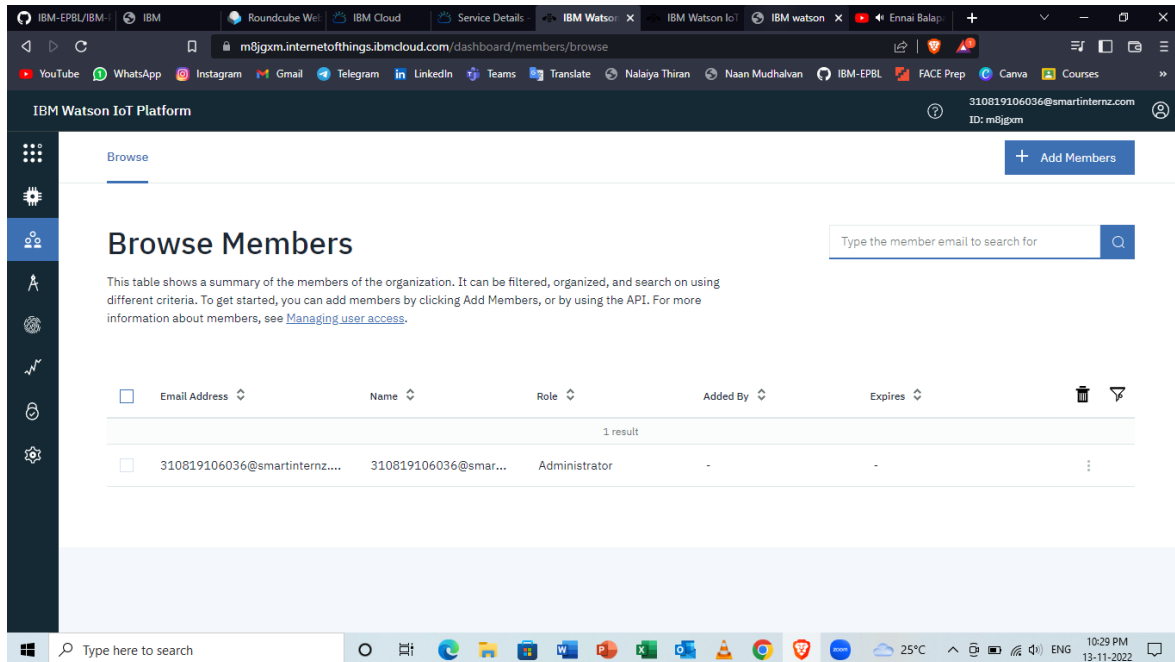


10. Usage gives the summary of how many bytes are used between the devices and the IBM cloud.

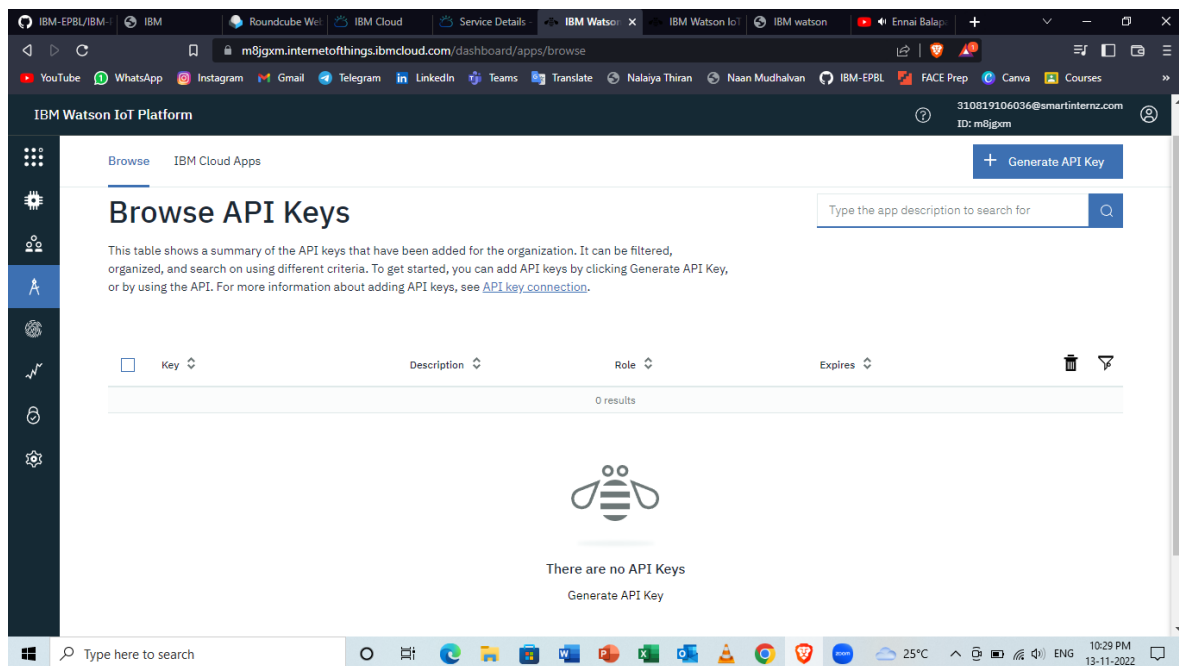


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11. The member tab is add the teams members to work in the platform.



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.

The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The 'Add Device' wizard is open, showing a progress bar with four steps: Identity (selected), Device Information, Security, and Summary. Below the progress bar, a message states: 'Select a device type for the device that you are adding and give the device a unique ID.' There are two input fields: 'Device Type' with the value 'Nodemcu' and 'Device ID' with the value '199795'. At the bottom right of the wizard, there are 'Cancel' and 'Next' buttons. The background shows the 'Browse Devices' page.

IBM Watson IoT Platform

310819106036@smartintranz.com
ID: m8jgxm

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

Type here to search

25°C 10:37 PM 13-11-2022

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

The screenshot shows the 'Add Device' page in the IBM Watson IoT Platform. The page is divided into four steps: Identity, Device Information, Security, and Summary. The 'Device Information' step is currently active. It contains several input fields for device details:

Field	Input
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

Below the input fields is a button labeled 'Add Metadata +'. The page also includes a sidebar with navigation icons and a top navigation bar with the user's profile and ID: 310819106036@smartinternz.com.

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

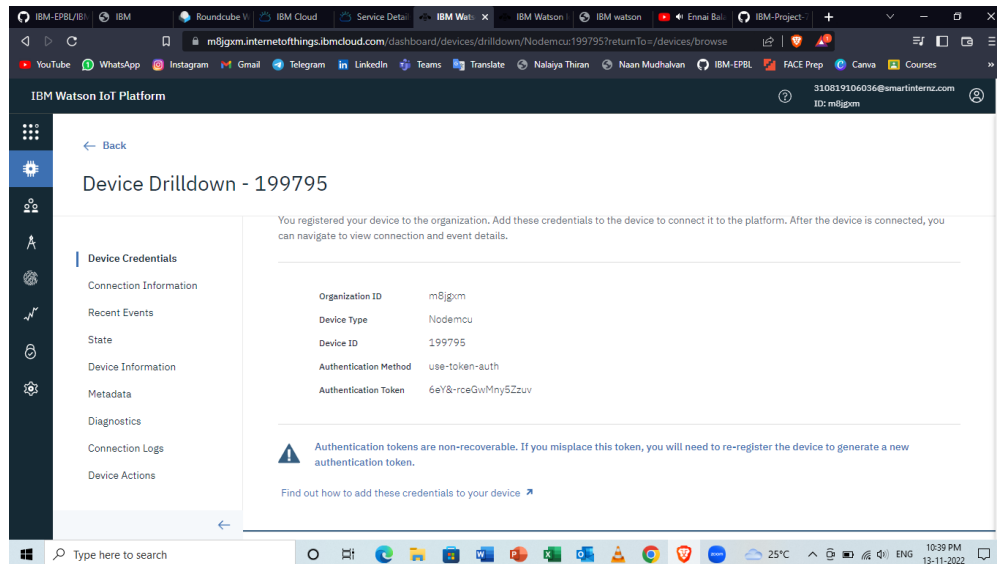
The screenshot shows the 'Add Device' page in the IBM Watson IoT Platform, now at the 'Summary' step. The previous steps (Identity, Device Information, and Security) are marked as completed. The 'Summary' step displays the following information:

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

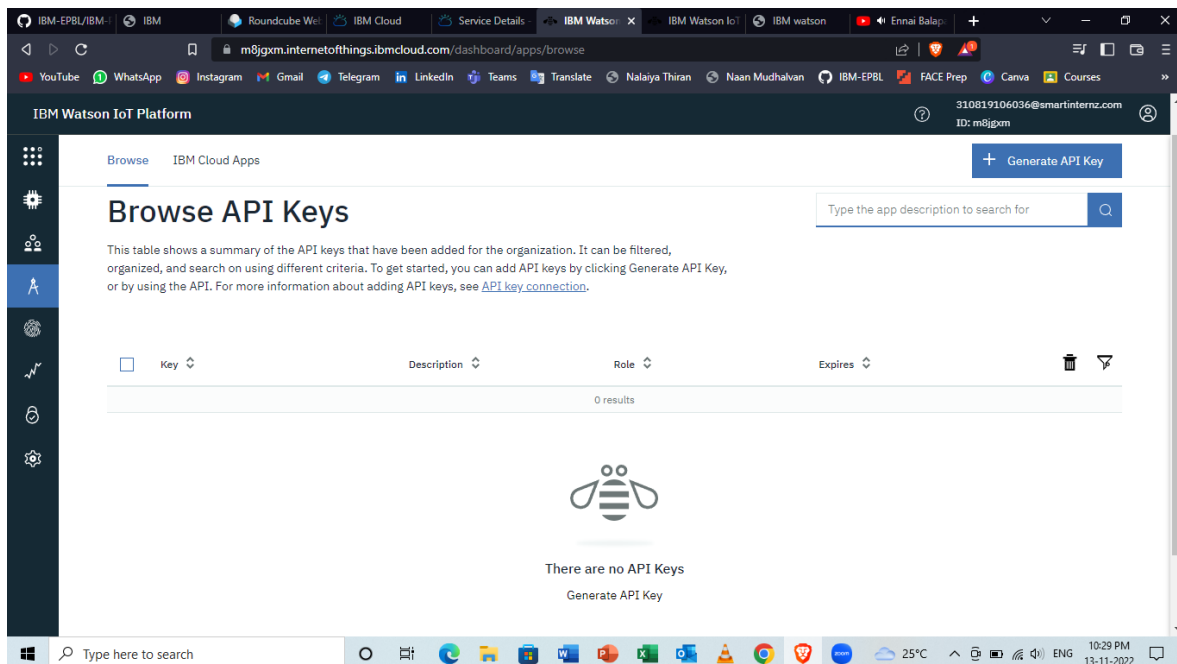
Below this information is a button labeled 'View Metadata'. At the bottom right of the page are two buttons: 'Back' and 'Finish'. The page also includes a sidebar with navigation icons and a top navigation bar with the user's profile and ID: 310819106036@smartinternz.com.

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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 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar is present with the text 'Search by Device ID'. The main content area displays a table of devices. The selected device is 199795, a NodeMCU, with status 'Disconnected'. Below the table, a detailed view of the device is shown, including its identity, device information, recent events, state, and logs. The device information section lists the following details:

Identity	Device Information	Recent Events	State	Logs
Device ID	199795			
Device Type	NodeMCU			
Date Added	Nov 13, 2022 10:39 PM			
Added By	310819106036@smartinternz.com			
Connection Status	Disconnected			

The bottom of the dashboard shows a search bar and a taskbar with various application icons.

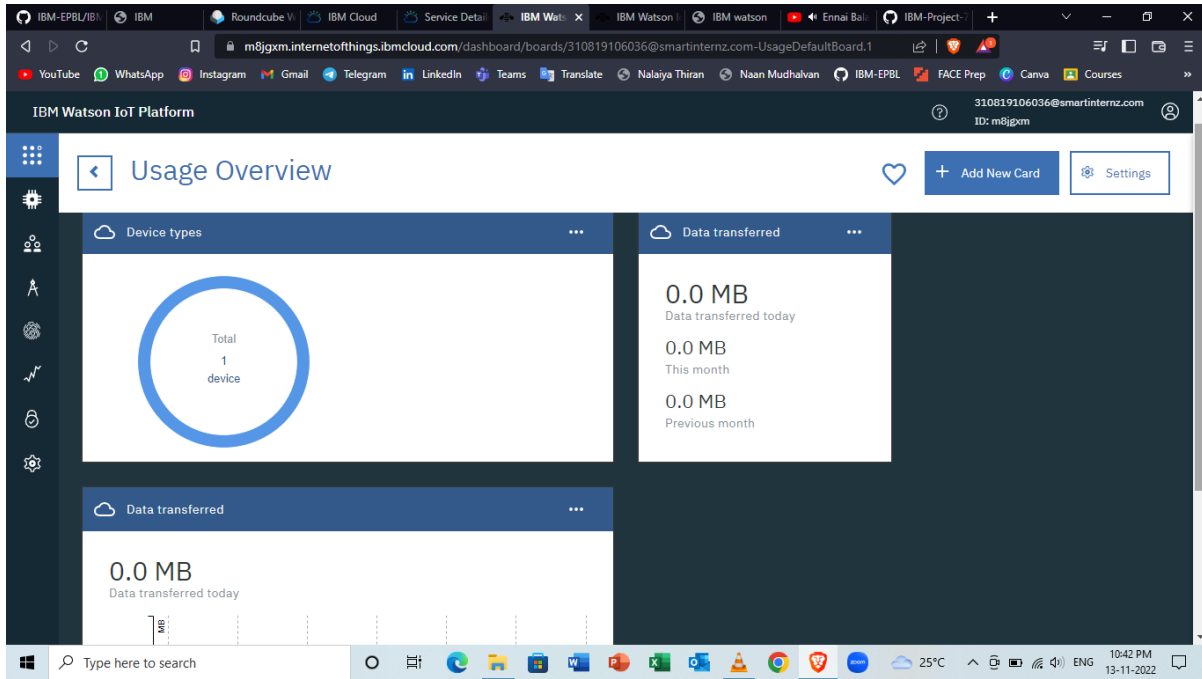
18. The Boards will display card for the project.

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes 'Your boards' and 'Public boards'. A search bar is present with the text 'Search by Board ID'. The main content area displays a list of boards. The selected board is 'Usage Overview' with 3 cards. Below the list, a detailed view of the board is shown, including its identity, board information, recent events, state, and logs. The board information section lists the following details:

Identity	Board Information	Recent Events	State	Logs
Board ID	199795			
Board Type	NodeMCU			
Date Added	Nov 13, 2022 10:39 PM			
Added By	310819106036@smartinternz.com			
Connection Status	Disconnected			

The bottom of the dashboard shows a search bar and a taskbar with various application icons.

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RESULT:

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