

Team ID **PNT2022TMID07490**

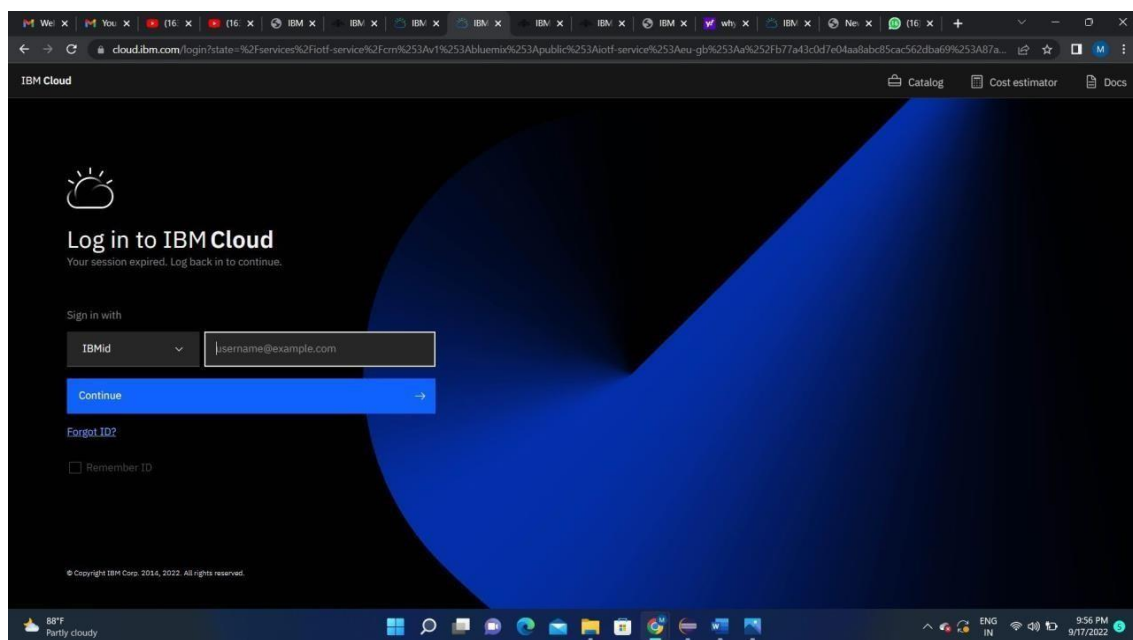
## CREATE IBM WATSON IOT PLATFORM AND DEVICE

### AIM:

To create the IBM Watson IoT platform and device.

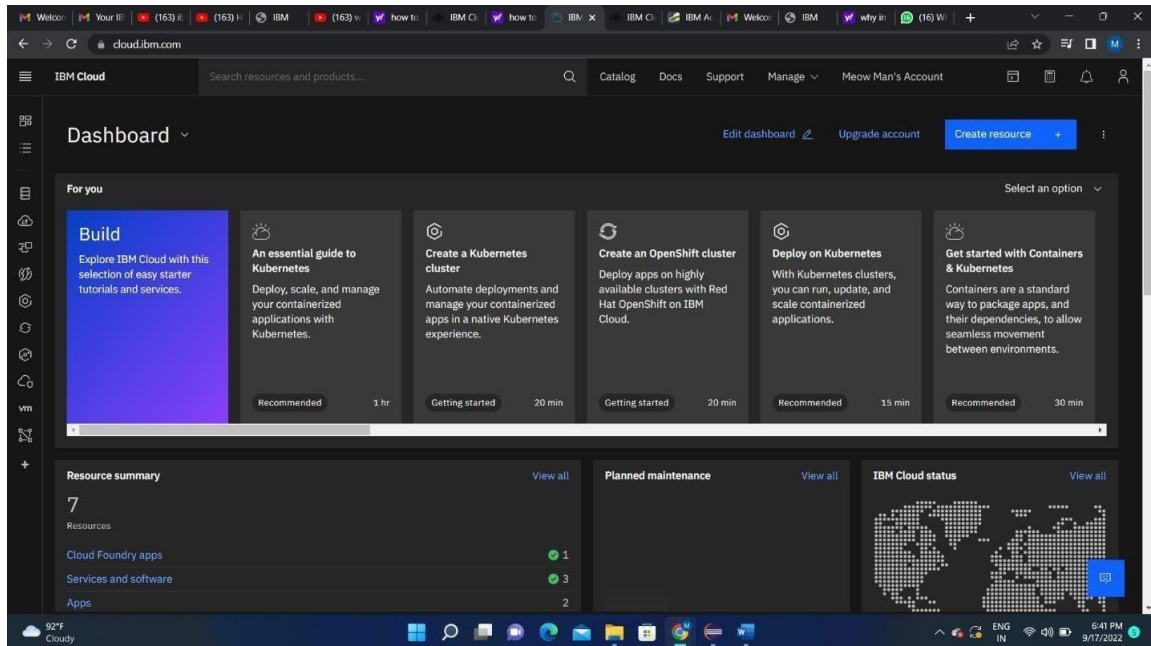
### STEPS:

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

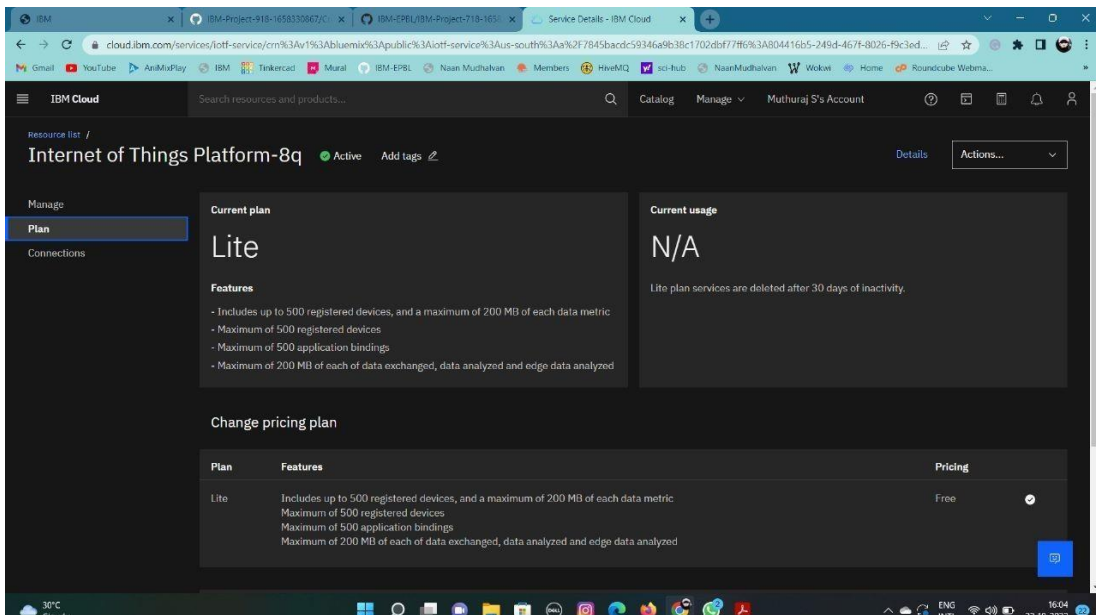


2. Home page of IBM cloud.

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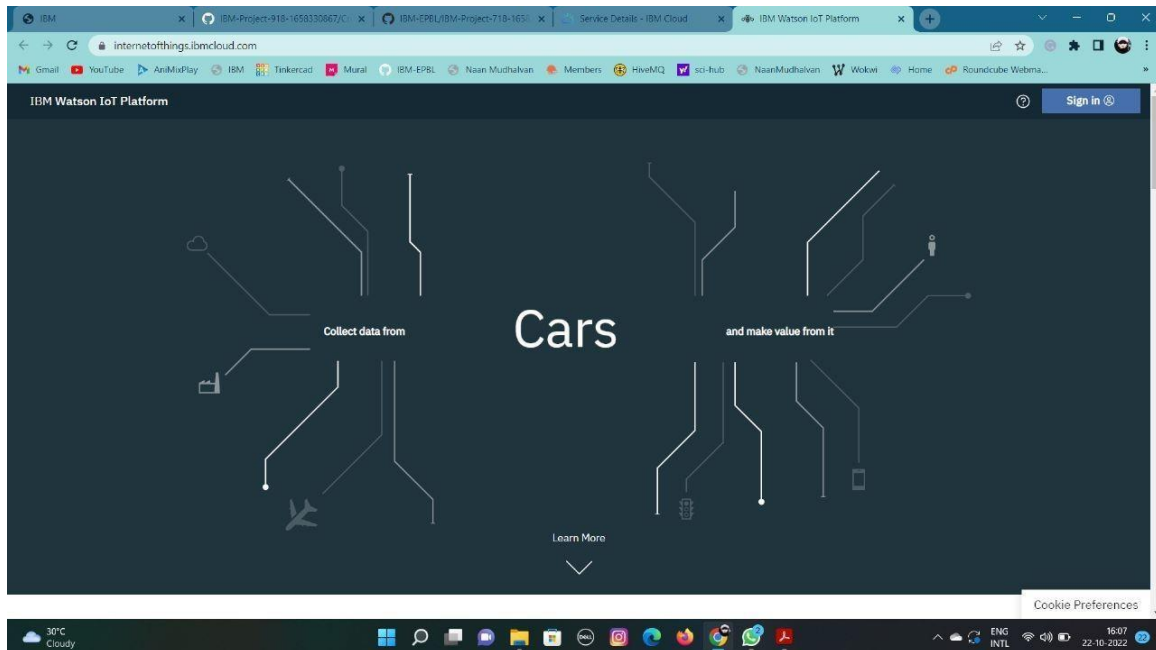


3. Internet of Things Platform Child\_safety will be created, where there are different options like manage, plan, and connection.

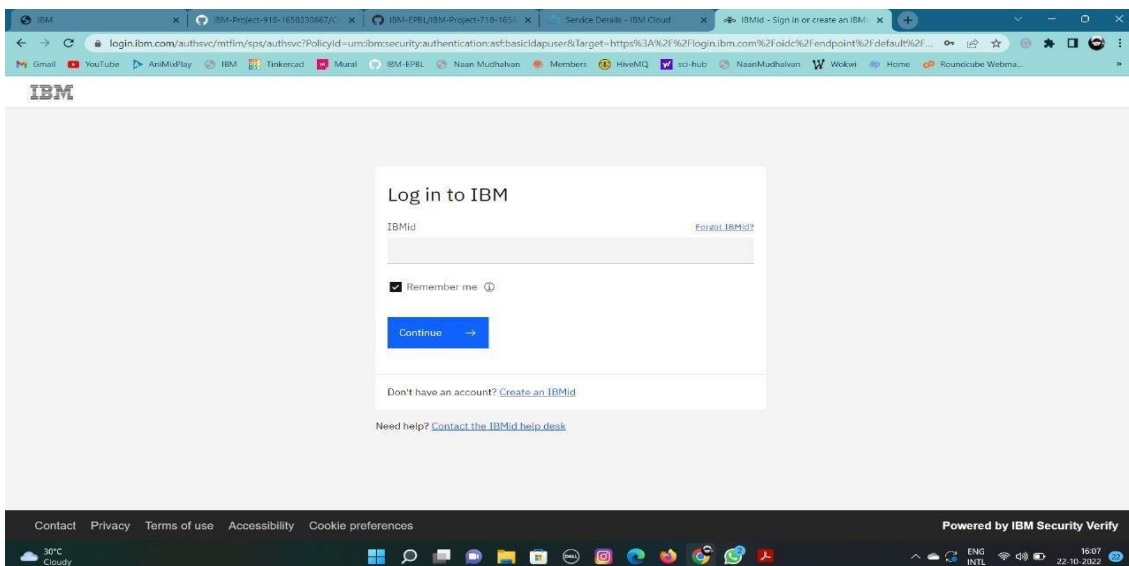


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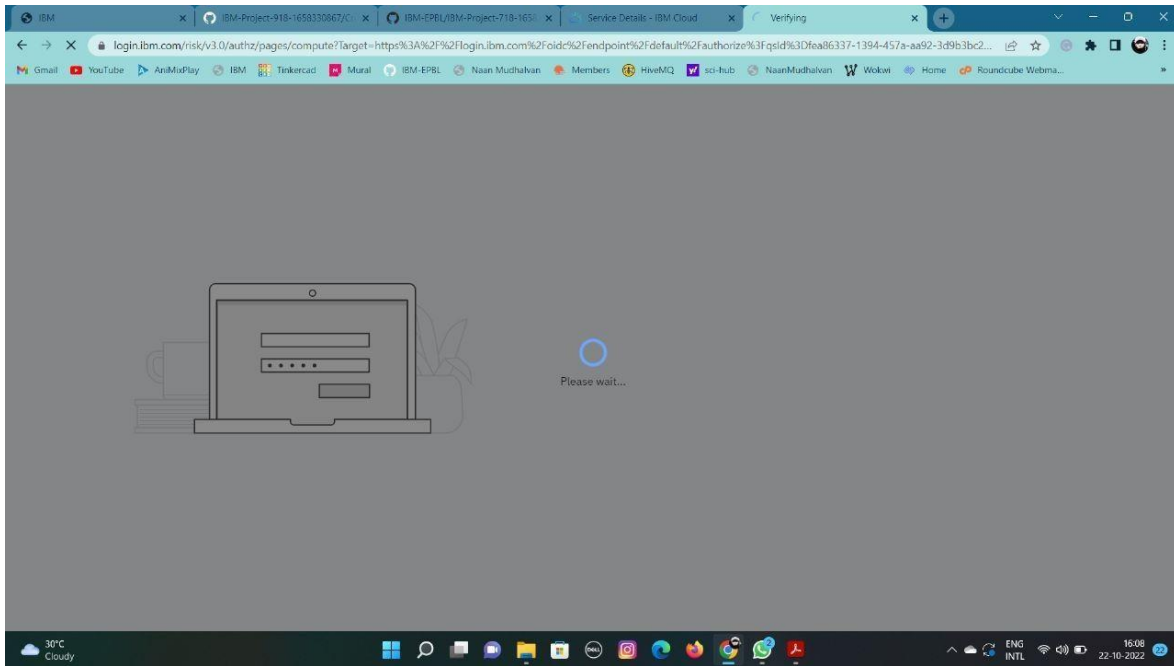
4. Clicking on the launch button in the manage tab, it will open to this.



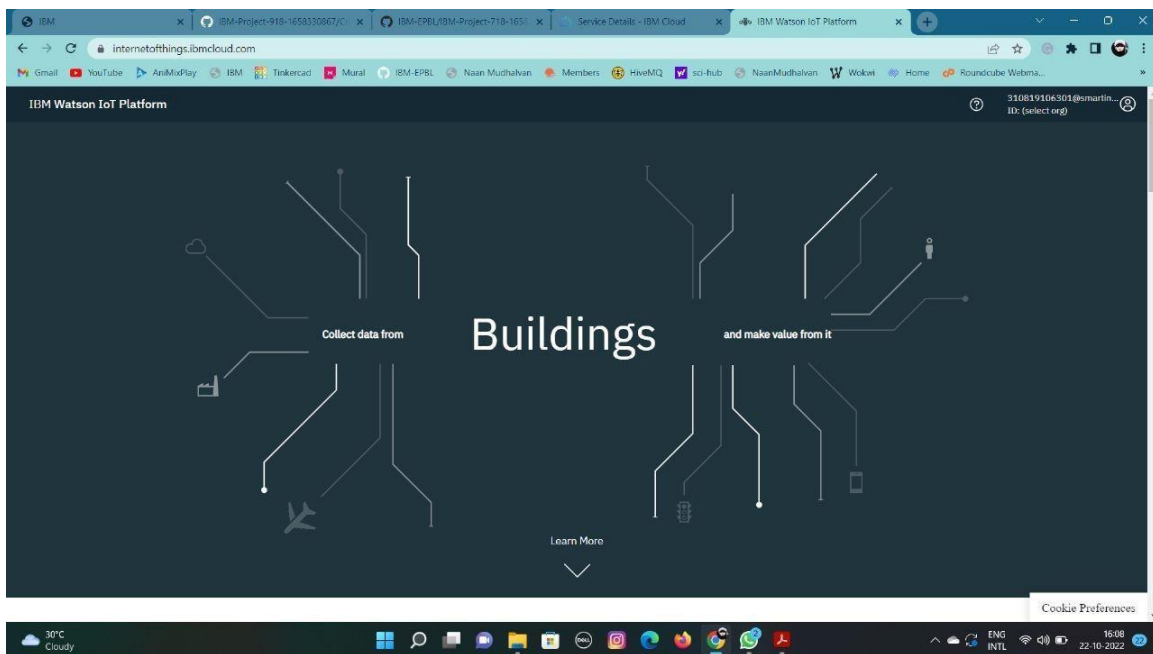
5. Enter the details to sign in to the Watson Cloud to create a device.



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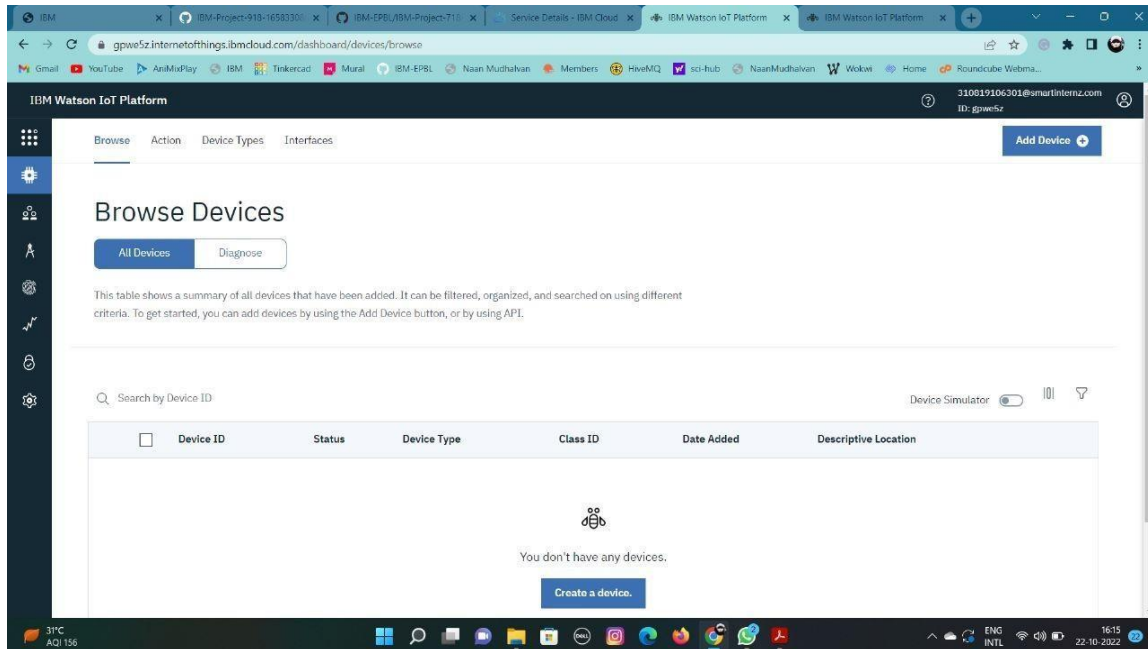


6. Once logged in the name will be displayed and it goes back to the first page.

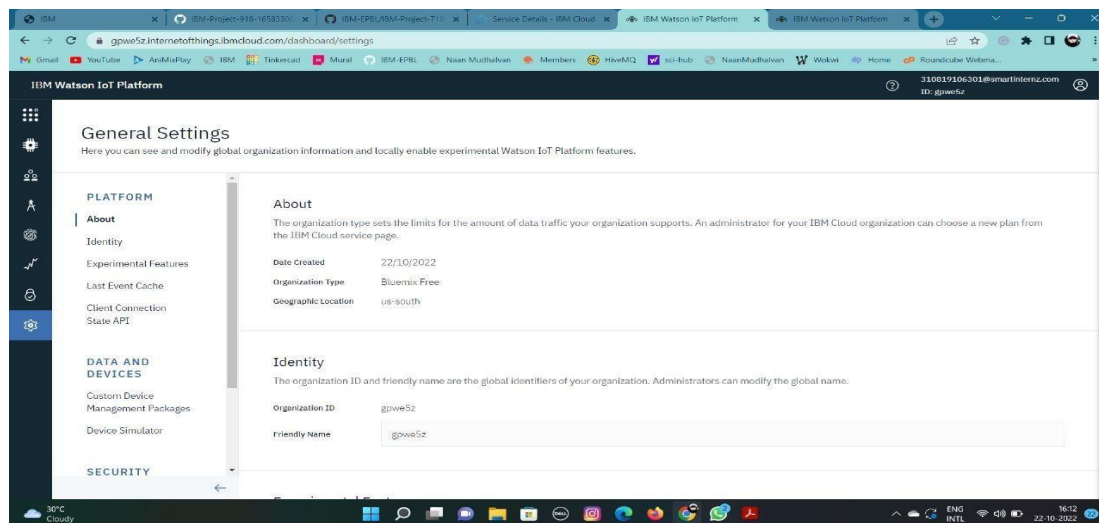


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7. And again clicking on the launch button will open this tab, the device will help in the creation of the devices, the addition of devices, and the display of details of the devices.

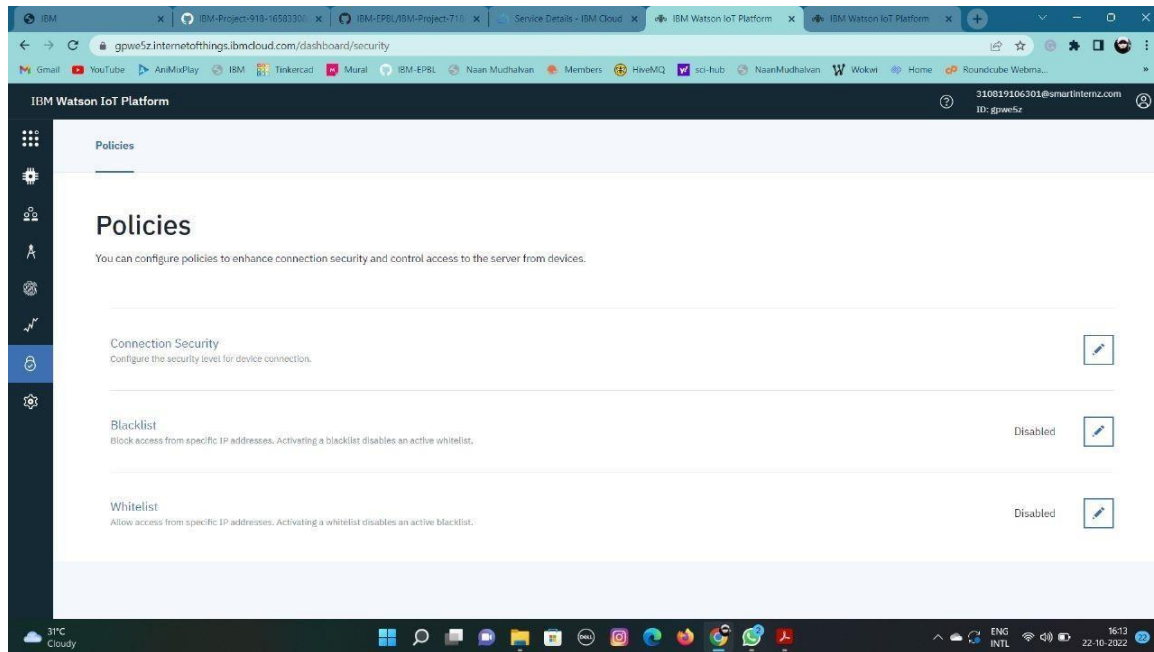


8. The setting tab is used to change the general setting if needed for the project.

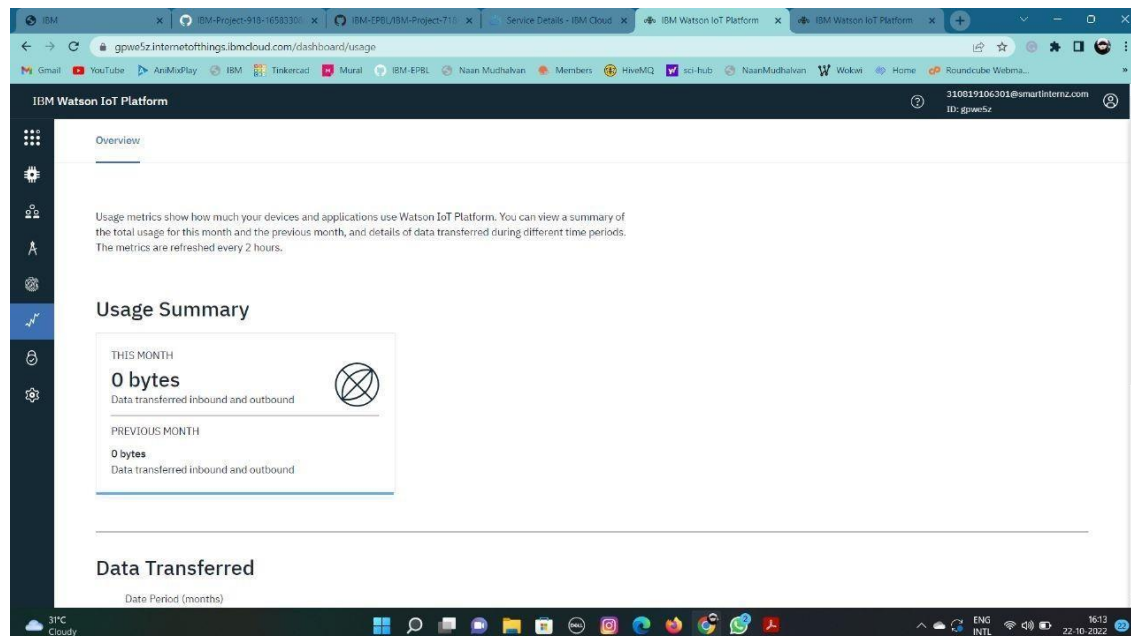


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9. the security tab we can choose the type of security connection and can change according to specification.

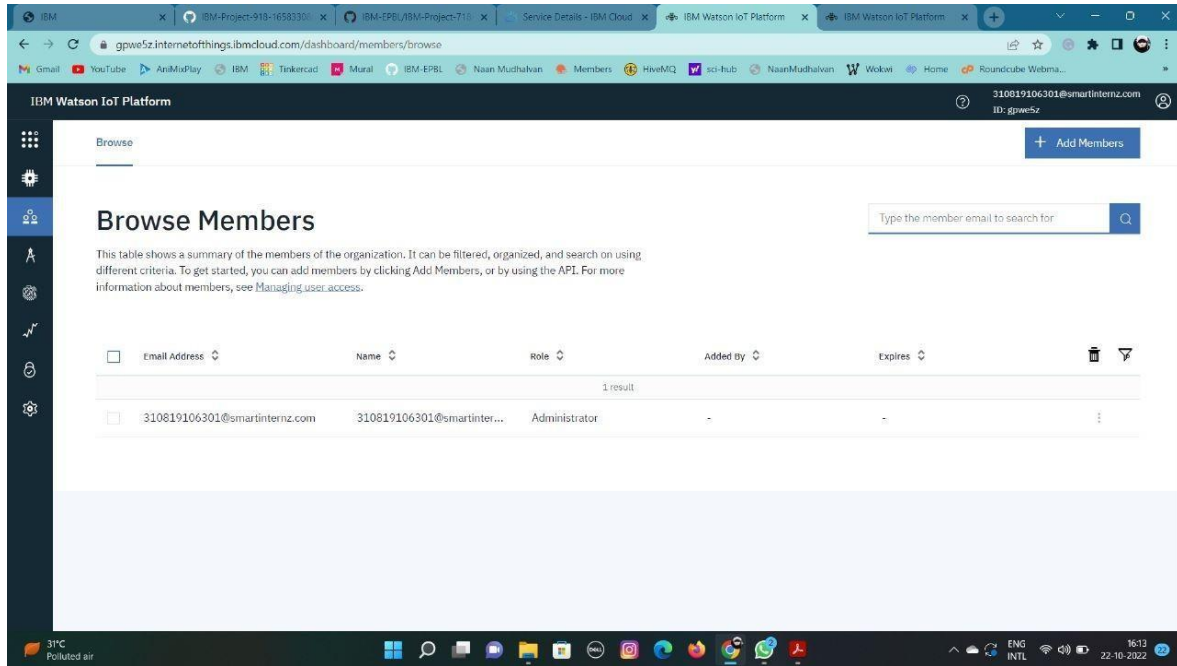


10. Usage gives the summary of how many bytes are used between the devices and the IBM cloud.

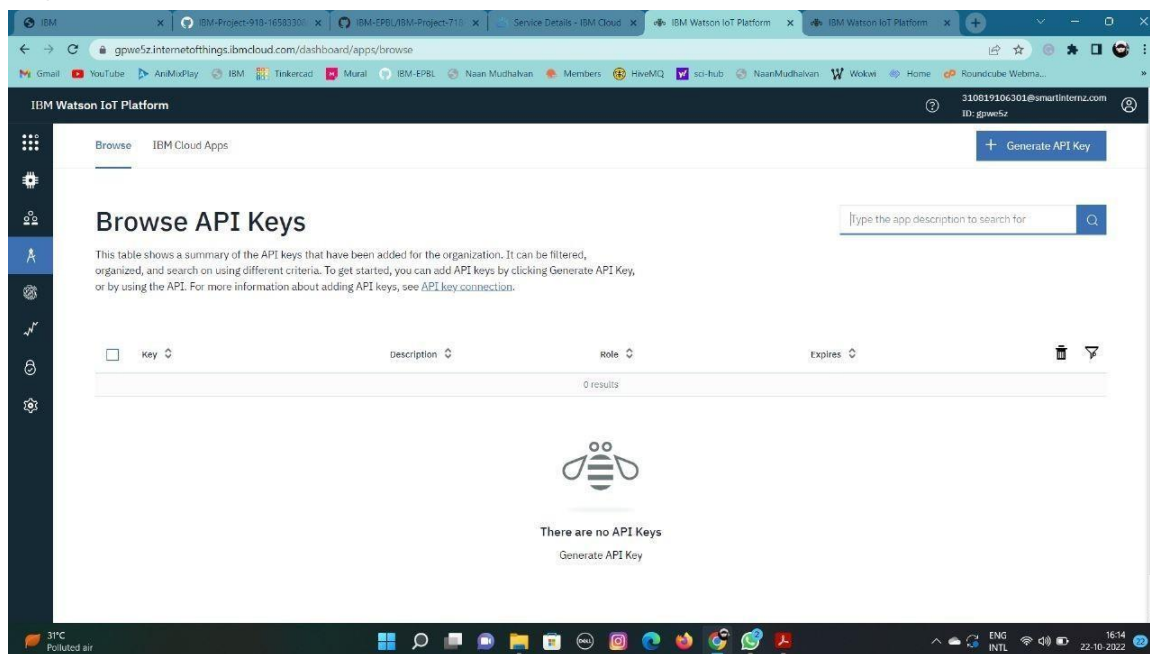


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11. The member tab is add the teams members to work in the platform.



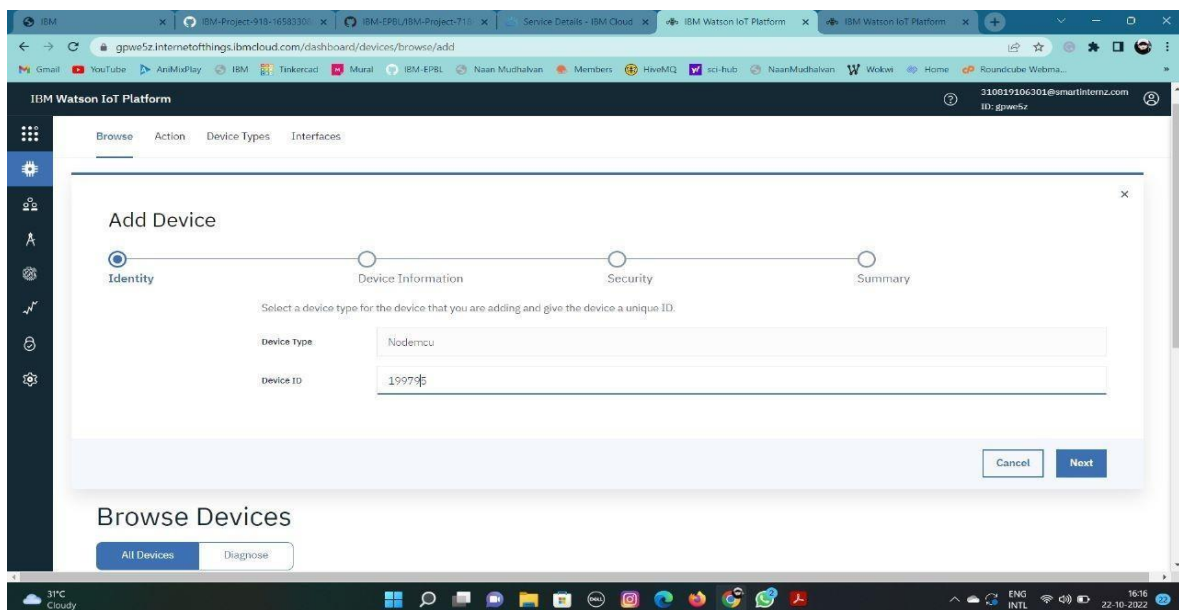
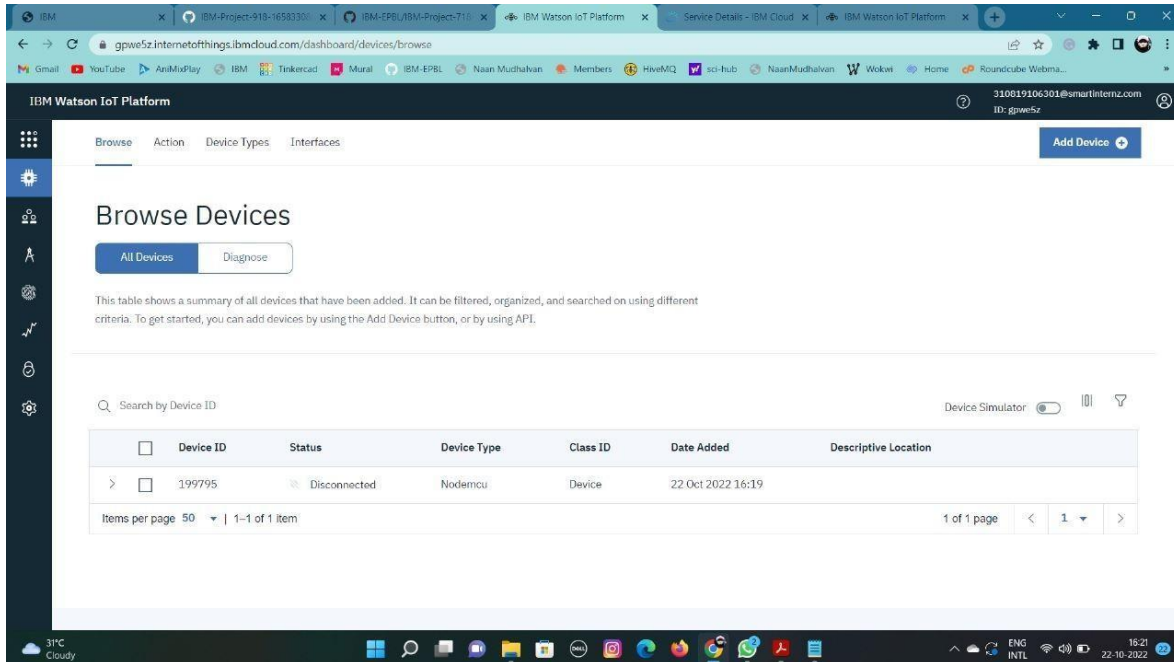
12. This tab is used when you want to connect to some other platform and to integrate with other services.





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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.





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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 'Identity' step is complete and the 'Device Information' step is currently active. The 'Security' and 'Summary' steps are yet to be completed. The 'Device Information' section contains several input fields for device metadata:

- 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. The bottom of the screen shows a Windows taskbar with various application icons and a system tray displaying the date and time as 16:16 on 22-10-2022.

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

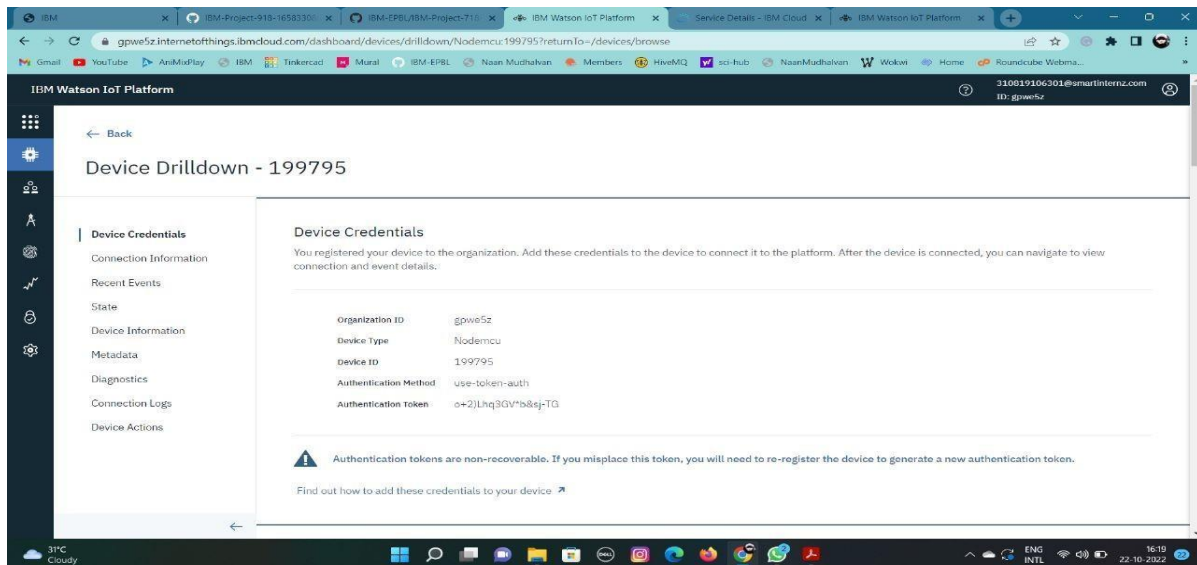
The screenshot shows the 'Add Device' wizard at the 'Summary' step. The progress bar shows that 'Identity', 'Device Information', and 'Security' are completed, while 'Summary' is the current step. The summary page displays the following information:

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

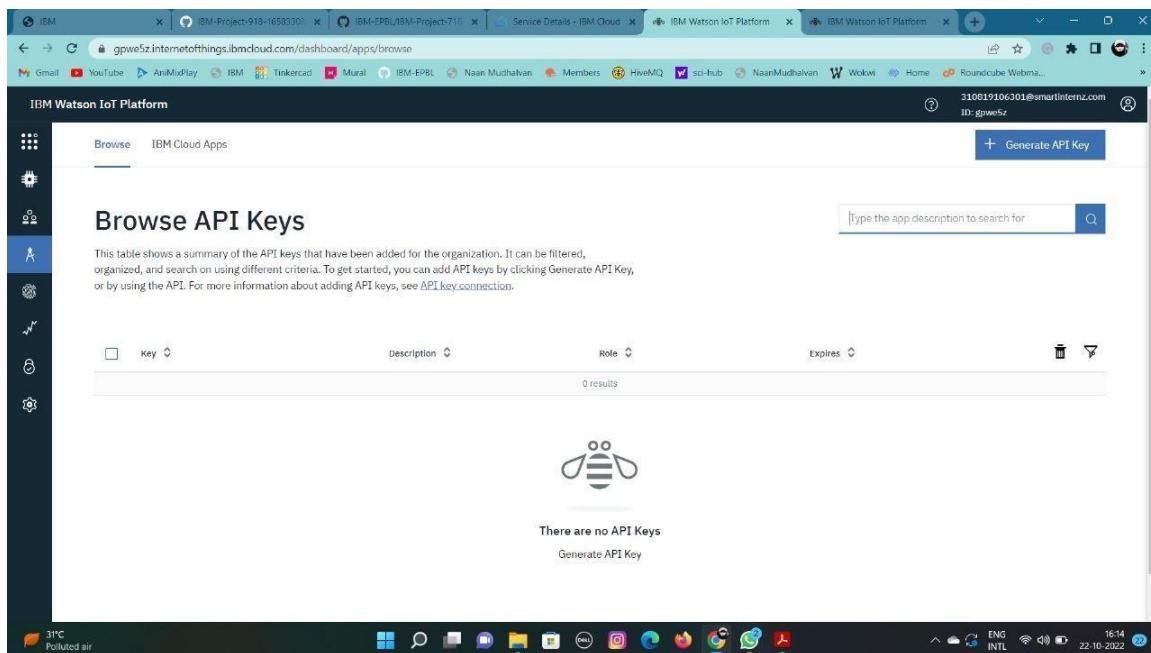
A 'View Metadata' button is located below the device information. At the bottom right of the form, there are 'Back' and 'Finish' buttons. The bottom of the screen shows a Windows taskbar with various application icons and a system tray displaying the date and time as 16:18 on 22-10-2022.

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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'. A table lists devices with columns: Device ID, Status, Device Type, Class ID, Date Added, and Descriptive Location. The device 199795 is highlighted. A modal window displays details for this device:

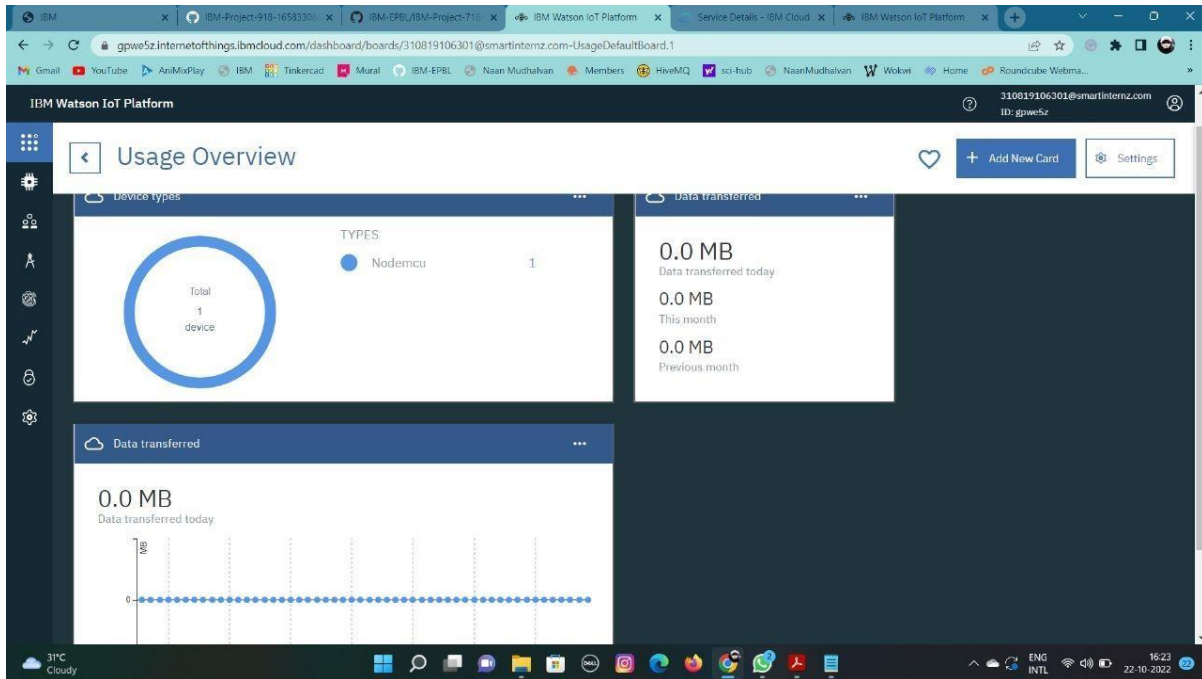
Identity	Device Information	Recent Events	State	Logs
Device ID	199795			
Device Type	Nodemcu			
Date Added	22 Oct 2022 16:19			
Added By	310819106301@smartinternz.com			
Connection Status	Disconnected			

At the bottom, it shows 'Items per page 50' and '1-1 of 1 item'.

18. The Boards will display card for the project.

The screenshot shows the 'Your boards' section of the IBM Watson IoT Platform dashboard. It features two cards: 'RISK AND SECURITY OVERVIEW' with 4 cards and 'USAGE OVERVIEW' with 3 cards. A large dashed box with a plus sign is also visible. Below the cards, it says 'Boards shared with you'. The top navigation bar includes tabs for 'Your boards' and 'Public boards'. A 'Create New Board' button is present.

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## RESULT:

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