

Team ID PNT2022TMID27105

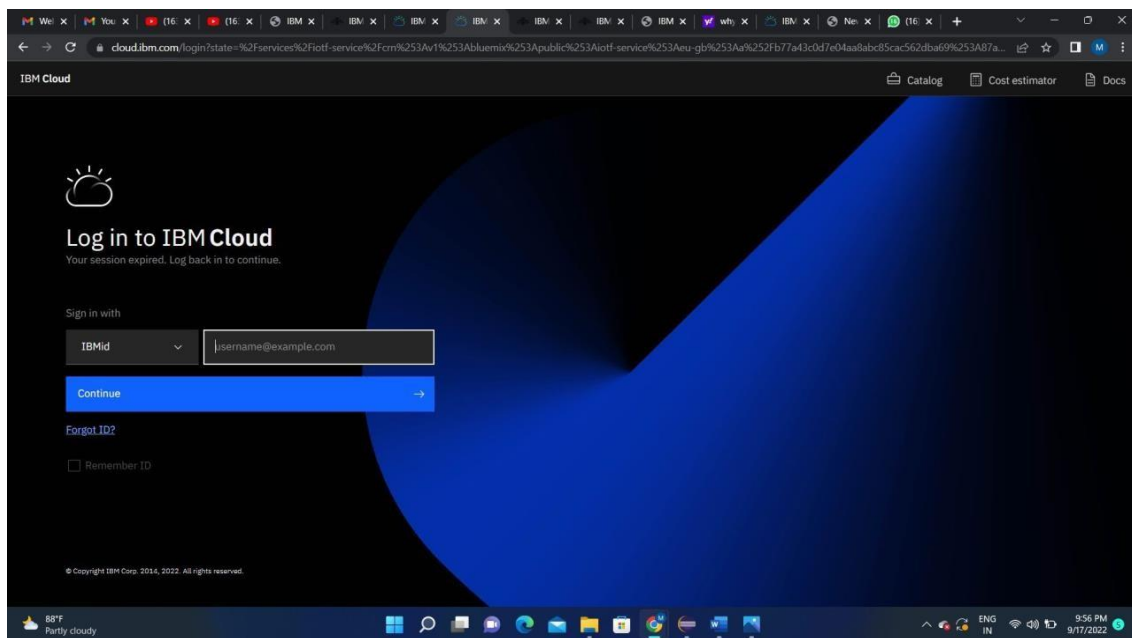
CREATE IBM WATSON IOT PLATFORM AND DEVICE

AIM:

To create the IBM Watson IoT platform and device.

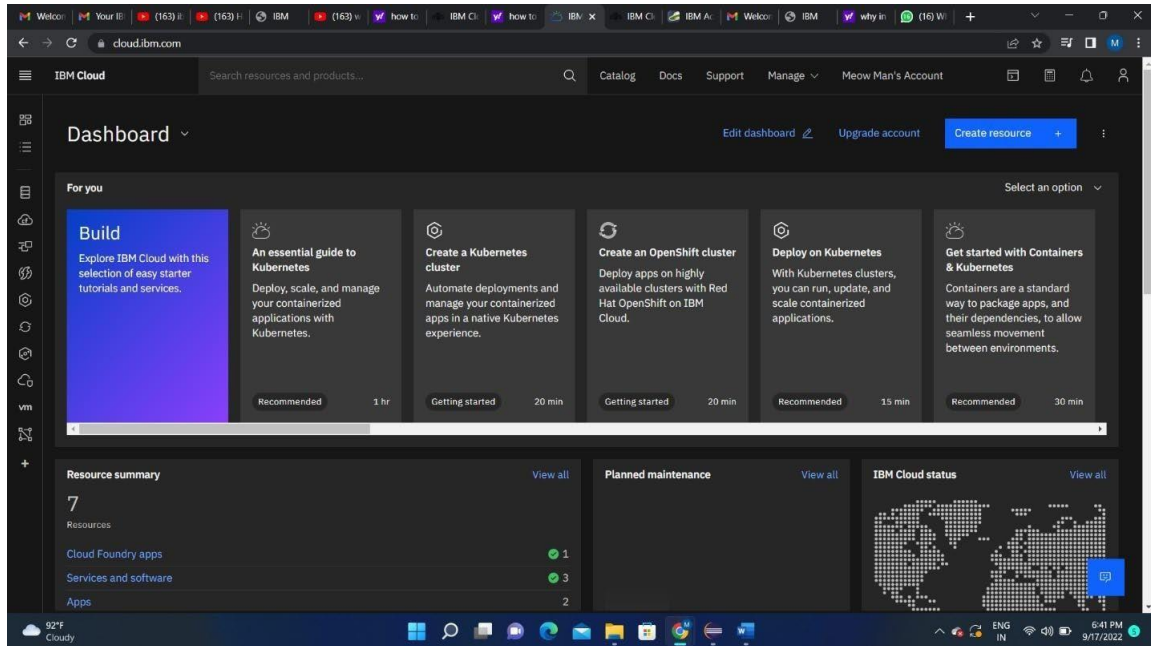
STEPS:

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

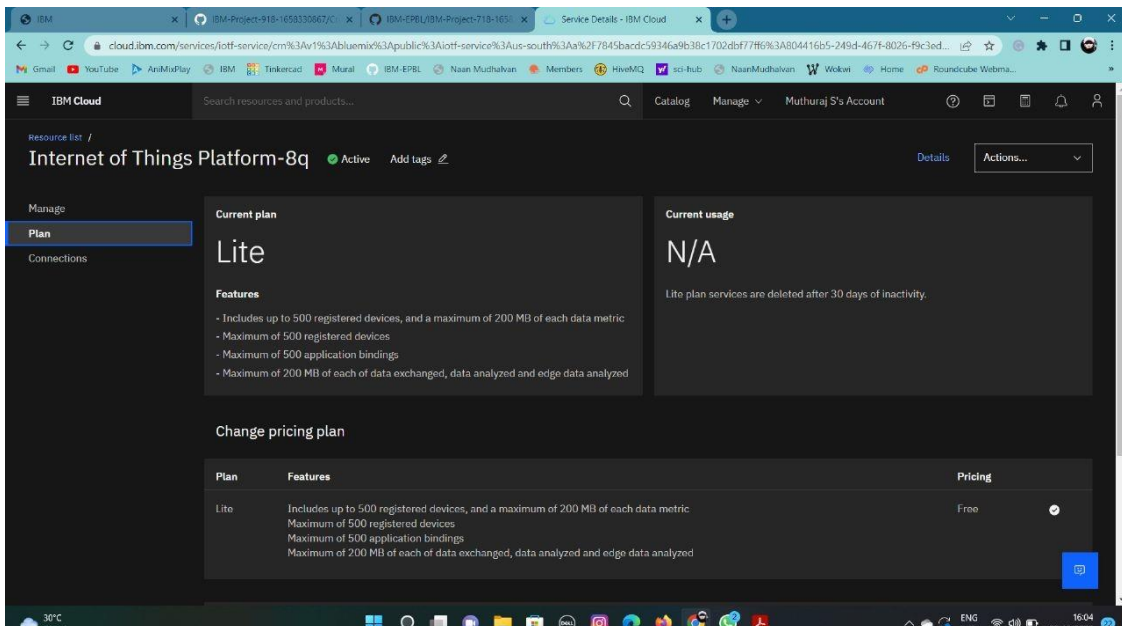


2. Home page of IBM cloud.

Team ID PNT2022TMID27105

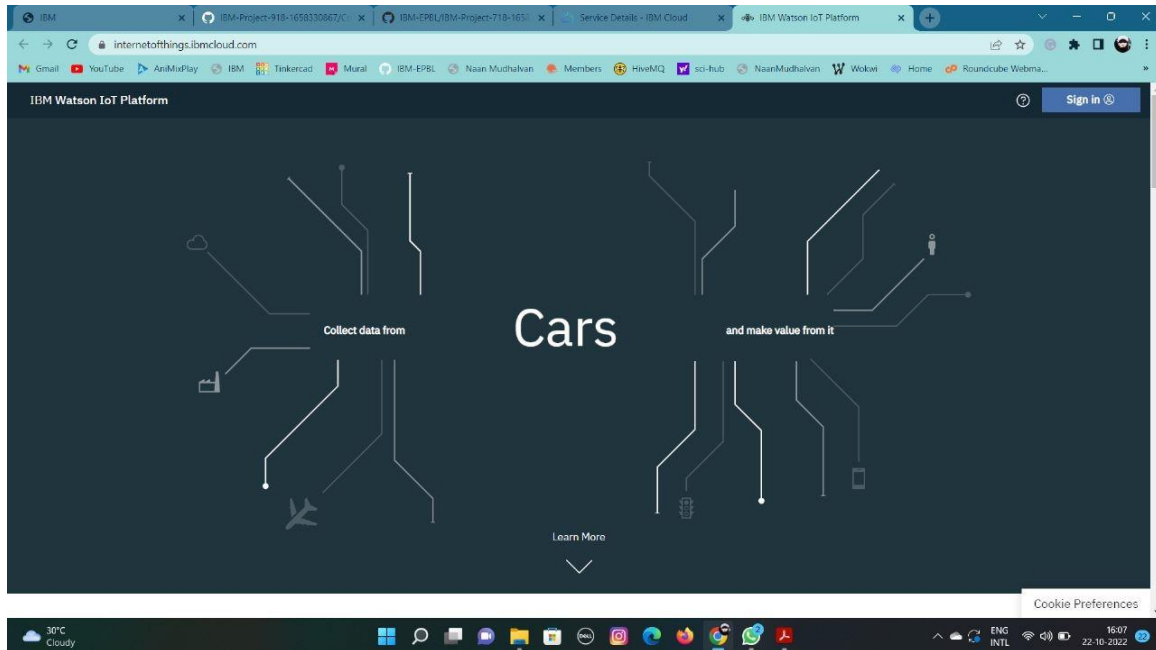


3. Internet of Things Platform Child_safety will be created, where there are different options like manage, plan, and connection.

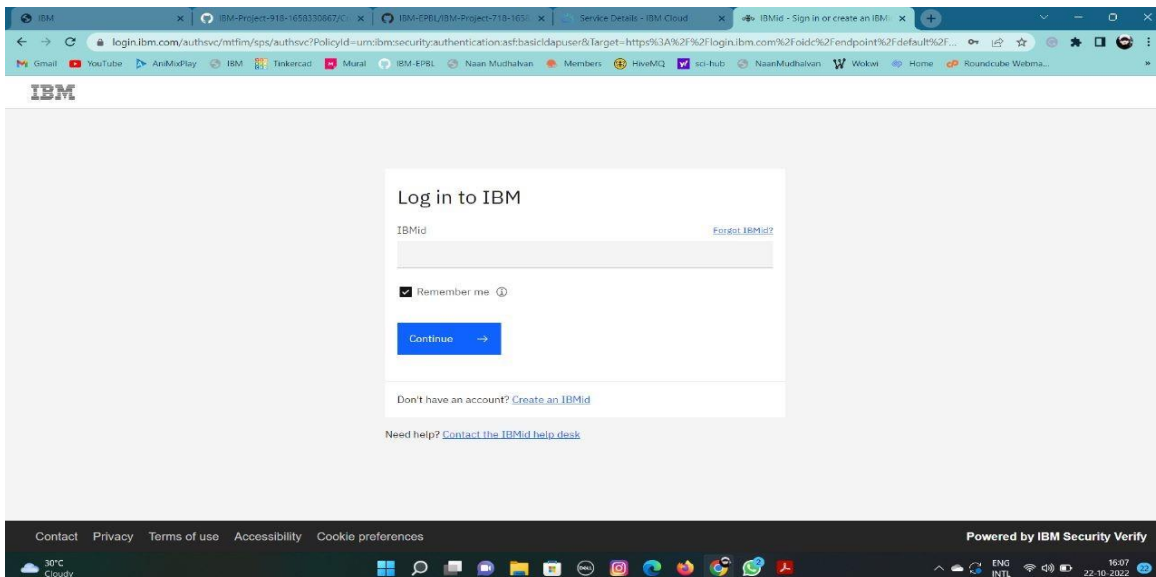


Team ID PNT2022TMID27105

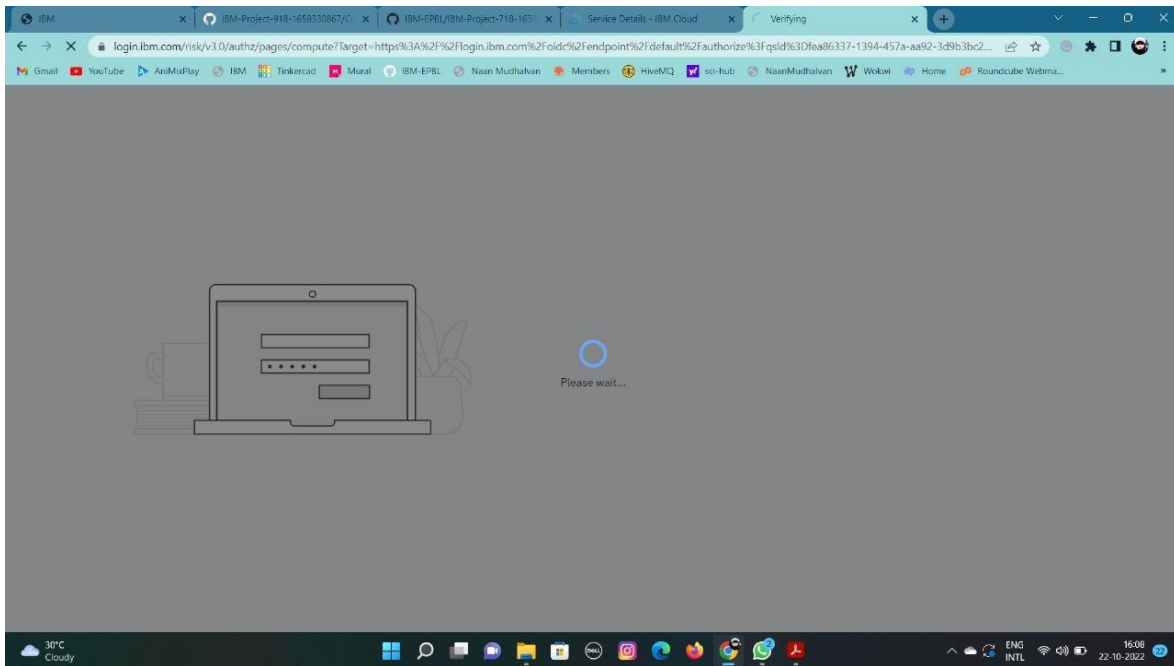
4. Clicking on the launch button in the manage tab, it will open to this.



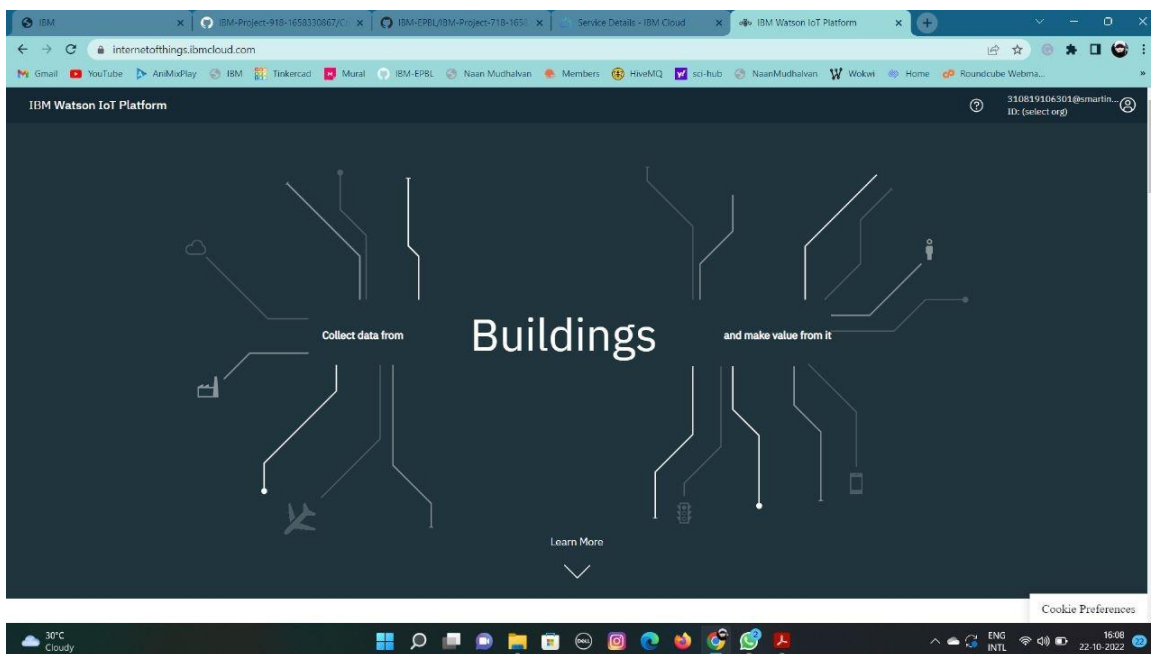
5. Enter the details to sign in to the Watson Cloud to create a device.



Team ID PNT2022TMID27105

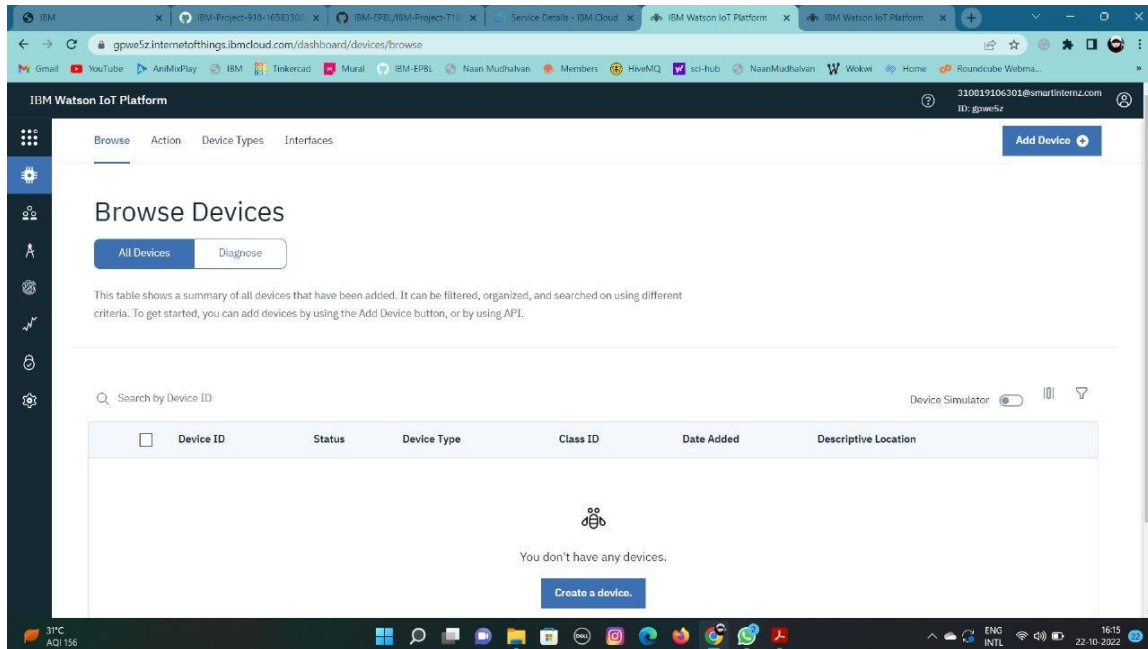


6. Once logged in the name will be displayed and it goes back to the first page.

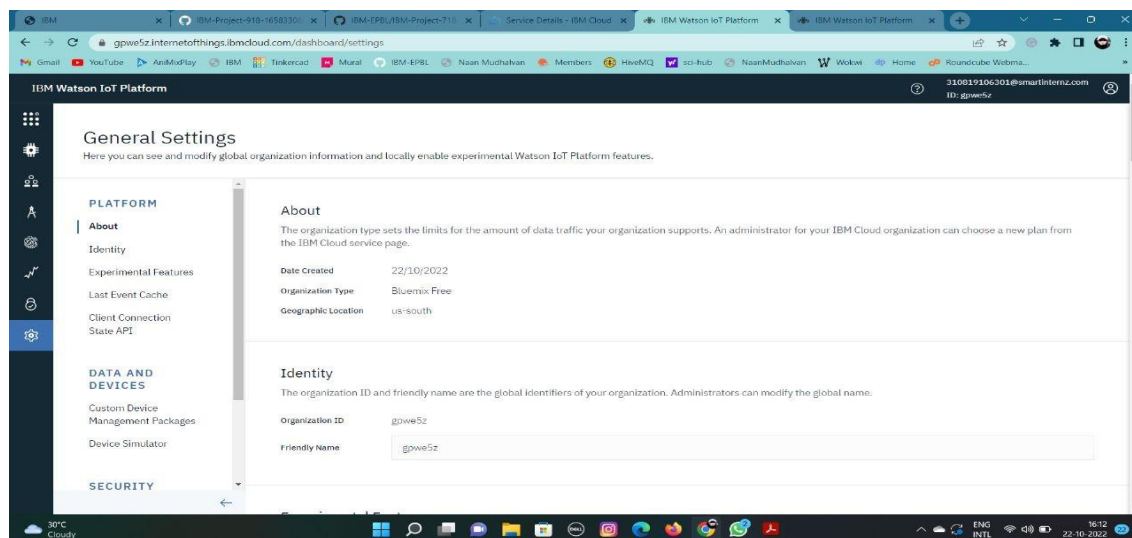


Team ID PNT2022TMID27105

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.

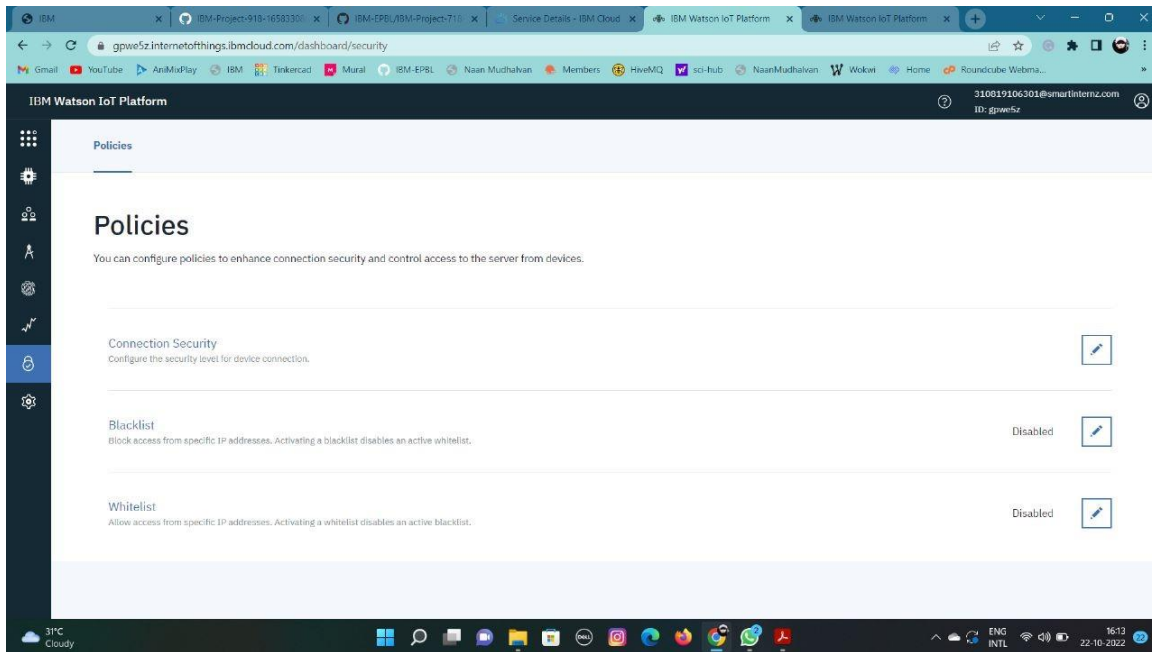


8. The setting tab is used to change the general setting if needed for the project.

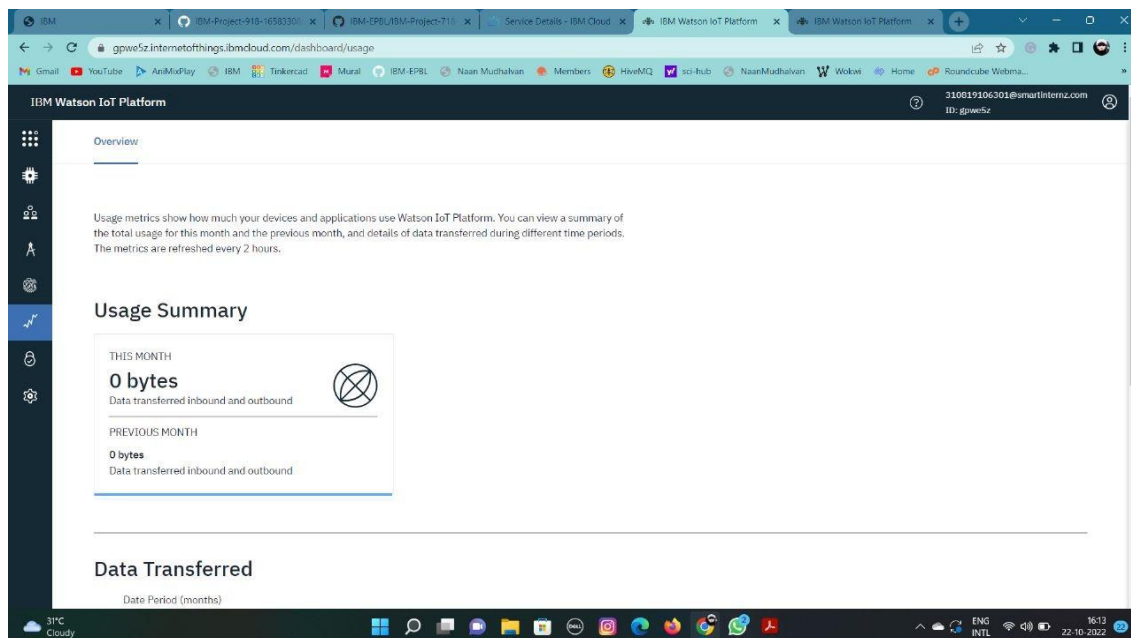


Team ID PNT2022TMID27105

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

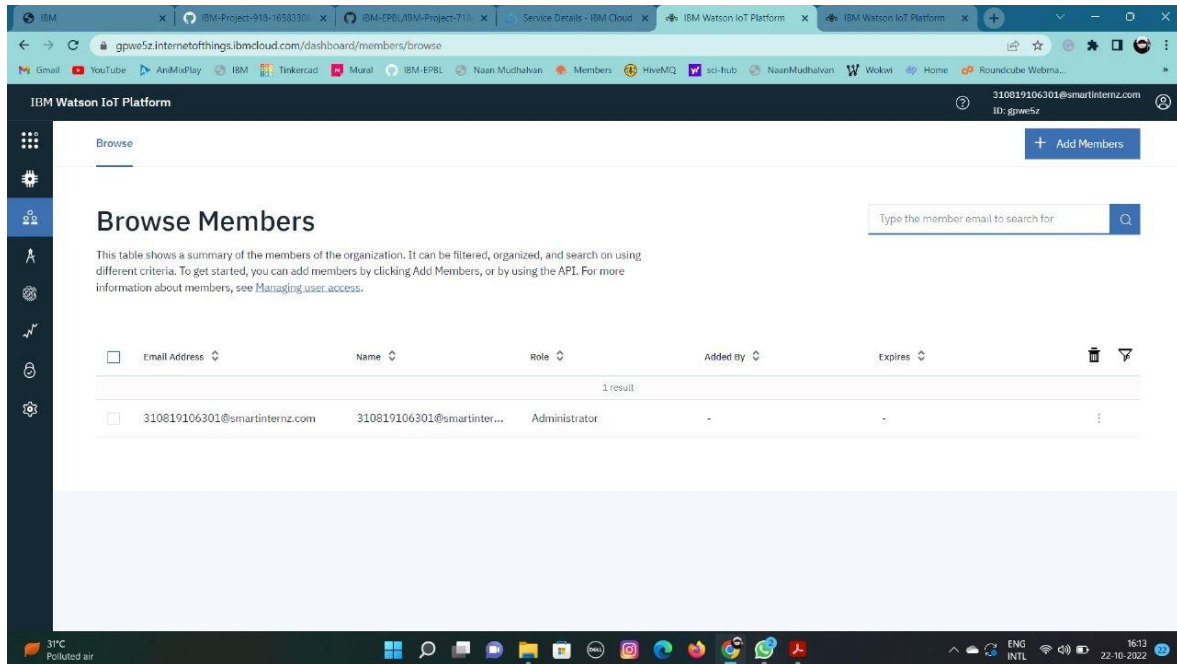


10. Usage gives the summary of how many bytes are used between the devices and the IBM cloud.

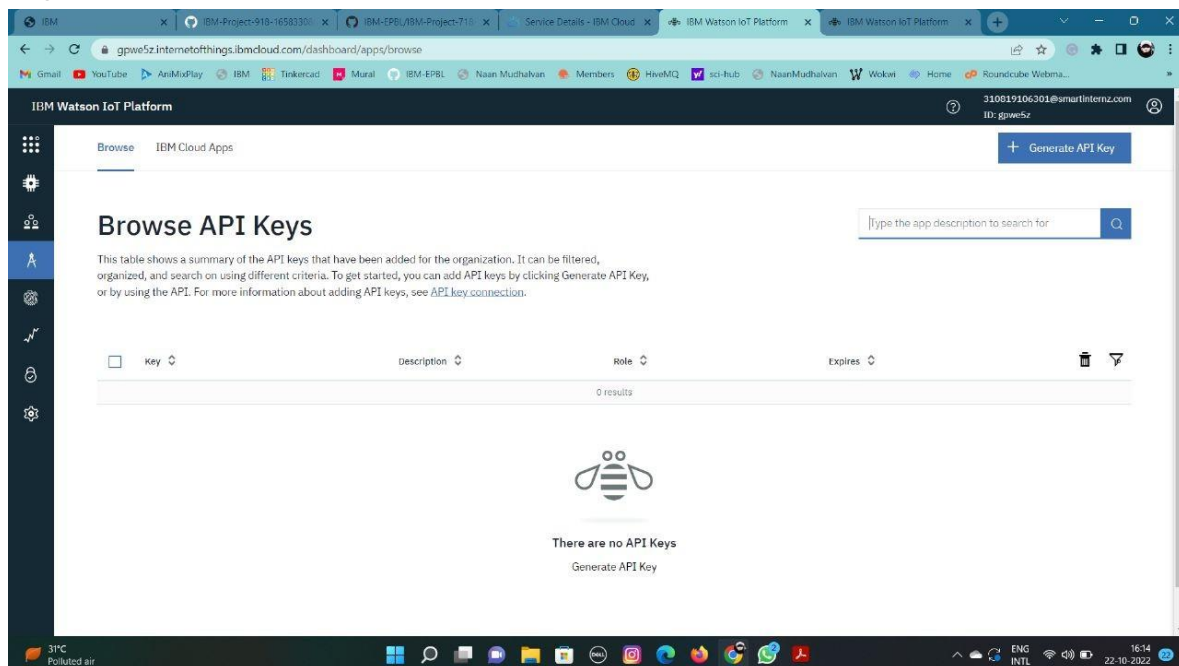


Team ID PNT2022TMID27105

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.



Team ID PNT2022TMID27105

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

Team ID PNT2022TMID27105

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 wizard has four steps: Identity, Device Information, Security, and Summary. The 'Device Information' step is currently active. It 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. The top navigation bar shows 'Browse', 'Action', 'Device Types', and 'Interfaces'. The user's email '310819106301@smarinternz.com' and ID 'gpwe5z' are visible in the top right corner.

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

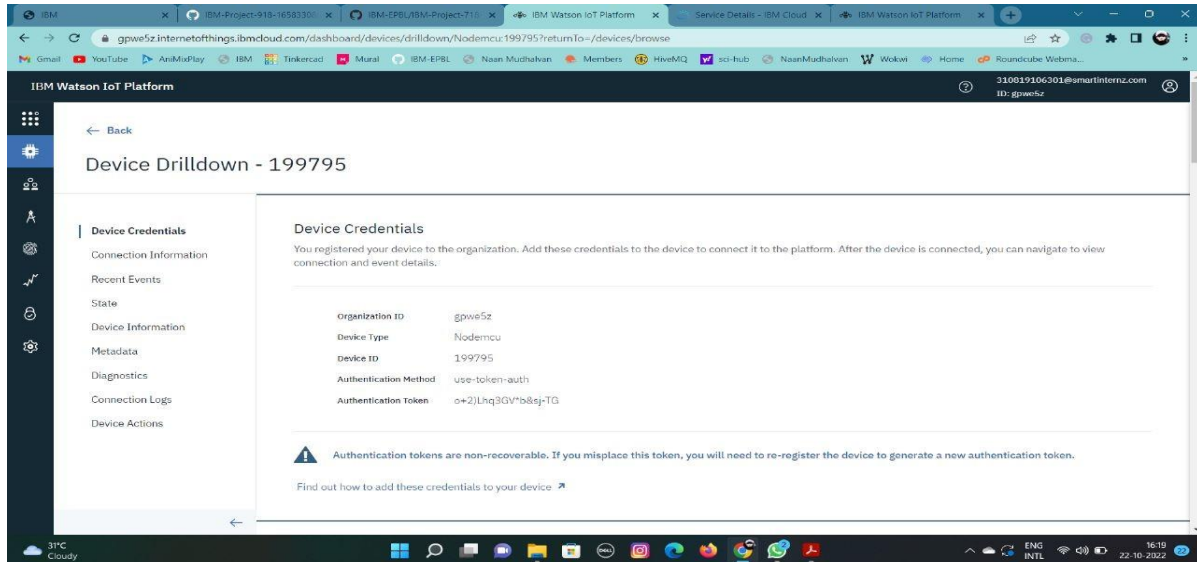
The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform, now at the 'Summary' step. The previous steps (Identity, Device Information, Security) are marked as completed. The 'Summary' step displays the following information:

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

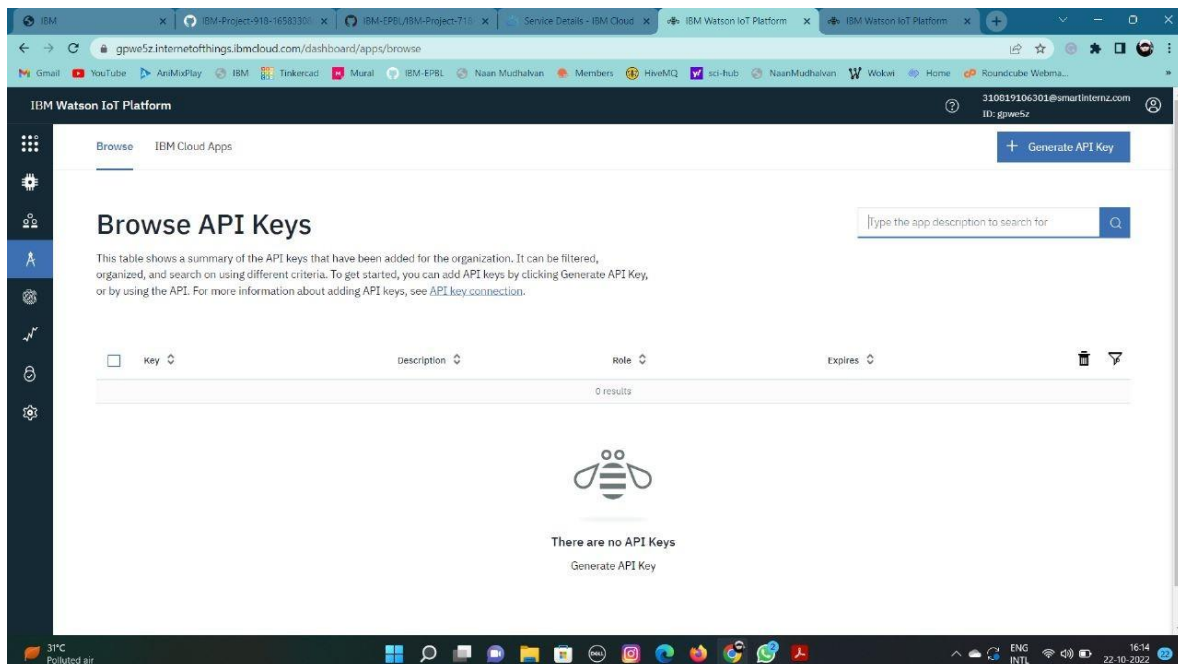
There is a 'View Metadata' button next to the Device ID. At the bottom right, there are 'Back' and 'Finish' buttons. The top navigation bar and user information remain the same as in the previous screenshot.

Team ID PNT2022TMID27105

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.



Team ID PNT2022TMID27105

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 labeled 'Search by Device ID' is present. Below the navigation bar, a table lists devices. The first device is highlighted, showing its details in a modal window.

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

The modal window for device 199795 displays the following information:

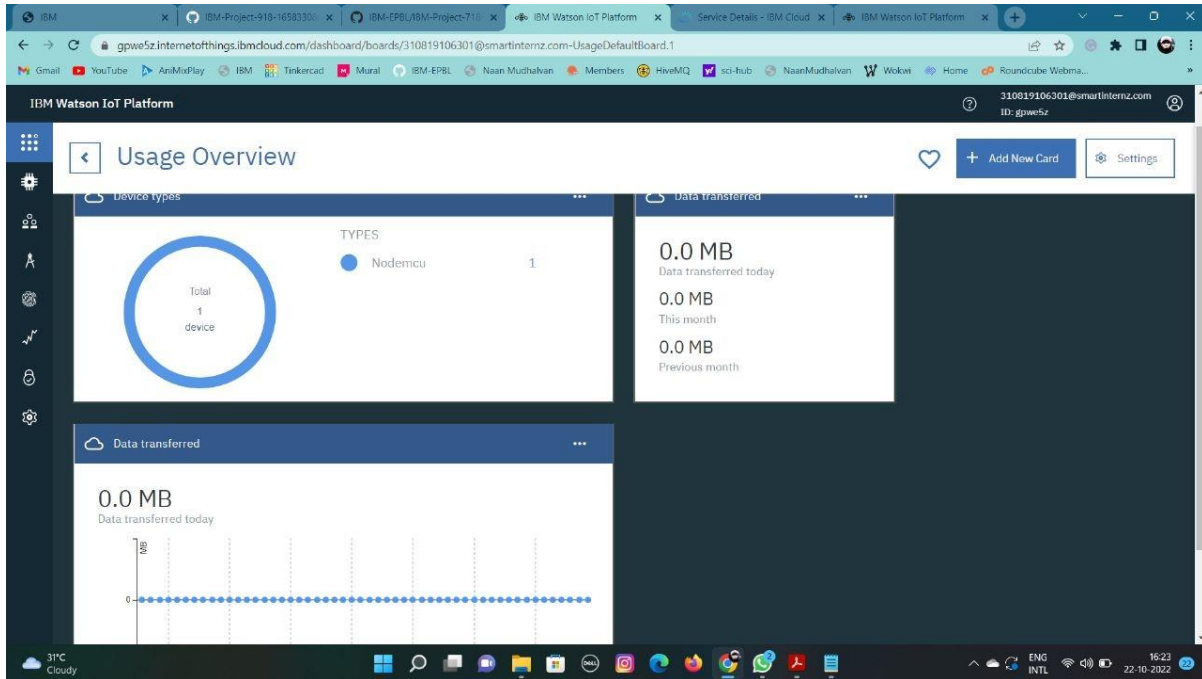
- Device ID: 199795
- Device Type: Nodemcu
- Date Added: 22 Oct 2022 16:19
- Added By: 310819106301@smartinternz.com
- Connection Status: Disconnected

The bottom of the screen shows a Windows taskbar with various application icons and system status indicators.

18. The Boards will display card for the project.

The screenshot shows the IBM Watson IoT Platform dashboard under the 'Boards' section. The top navigation bar includes tabs for 'Your boards' and 'Public boards'. A 'Create New Board' button is visible. The main content area displays two cards: 'RISK AND SECURITY OVERVIEW' with 4 cards and 'USAGE OVERVIEW' with 3 cards. A large dashed box with a plus sign indicates a placeholder for a new board. Below the cards, the text 'Boards shared with you' is displayed.

Team ID PNT2022TMID27105



RESULT:

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