

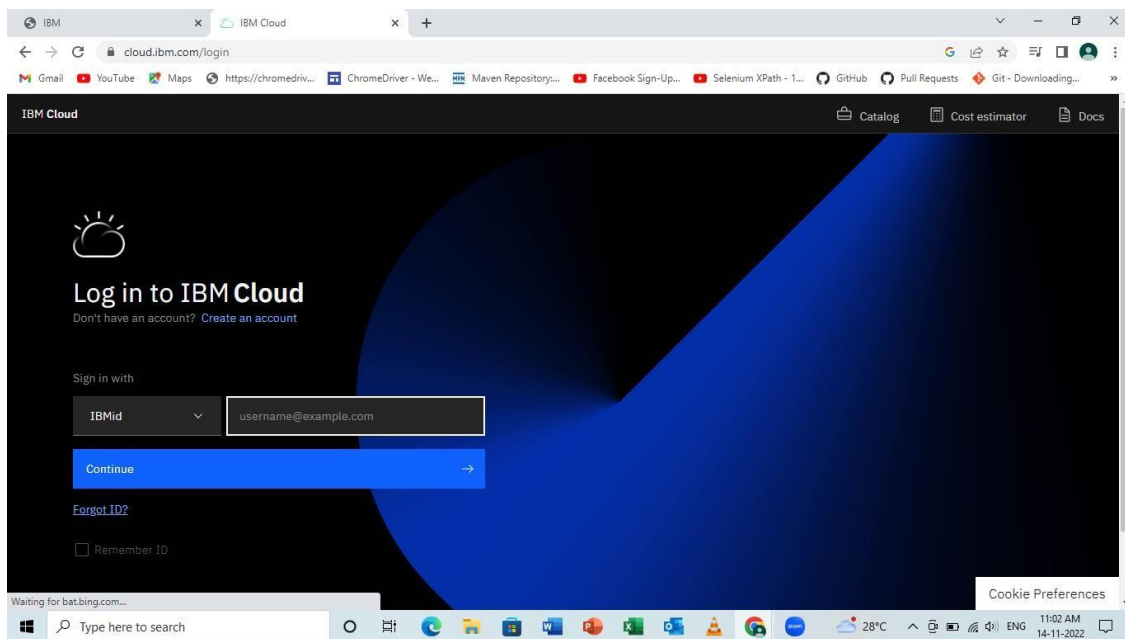
## CREATE IBM WATSON IOT PLATFORM AND DEVICE

### AIM:

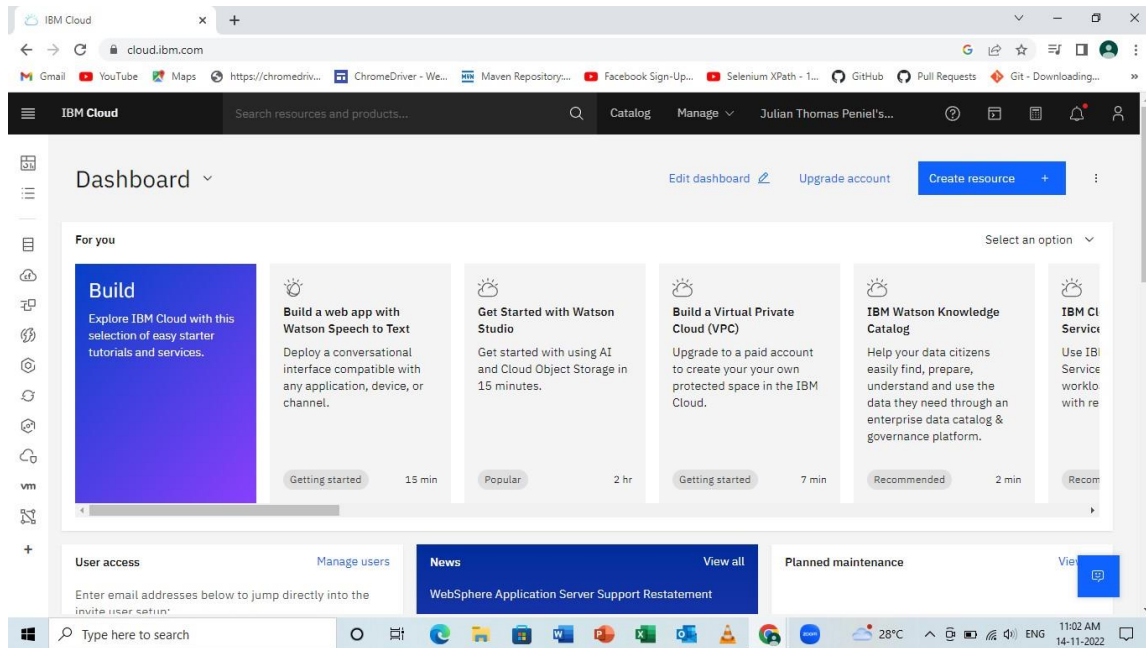
To create the IBM Watson IoT platform and device.

### STEPS:

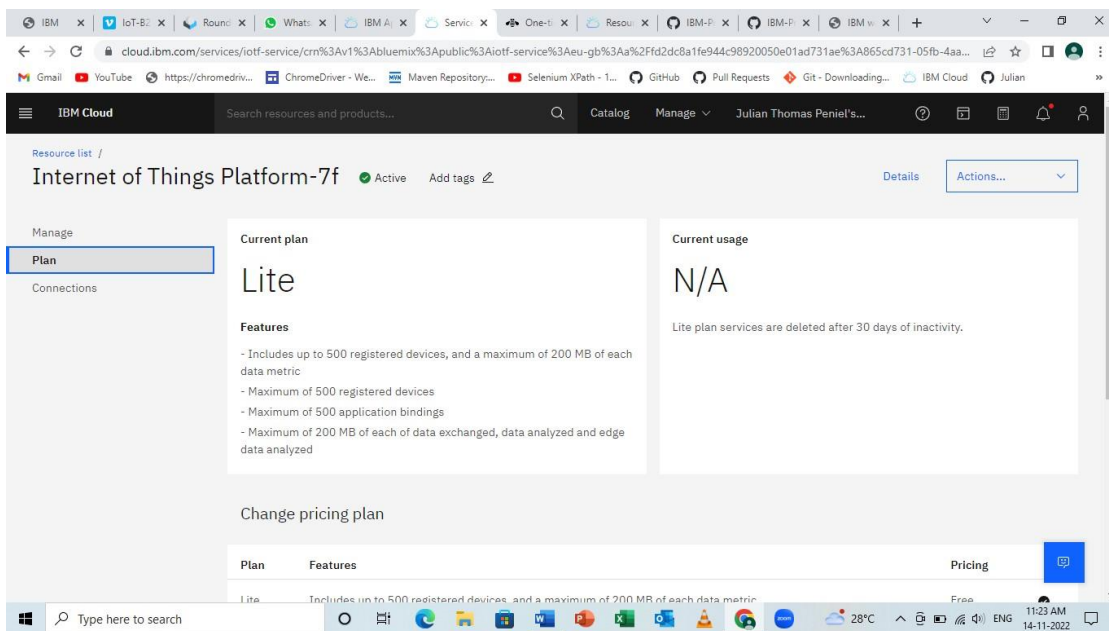
1. First create an IBM cloud account with IBM id and a password.



2. Home page of IBM cloud.

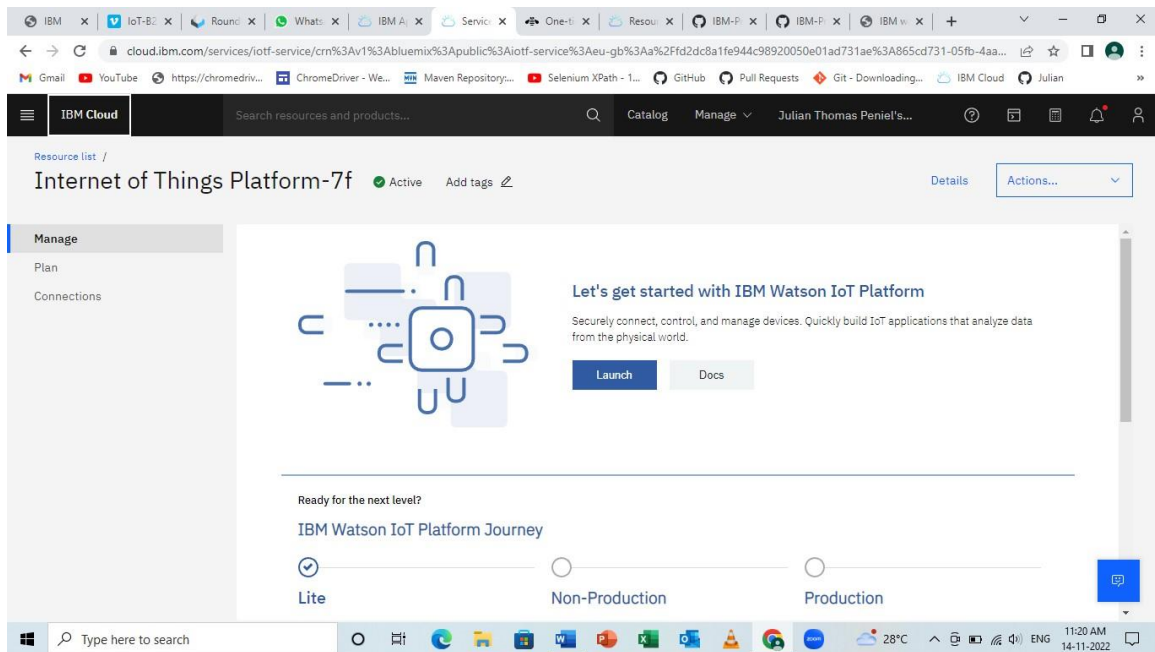


- Internet of Things Platform Child safety will be created, where there are different options like manage, plan, and connection.

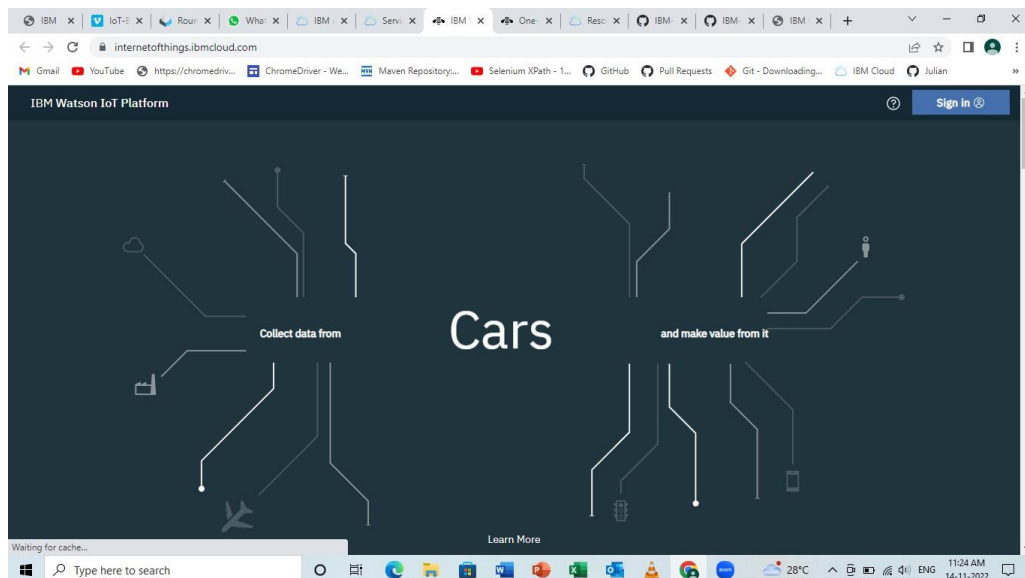


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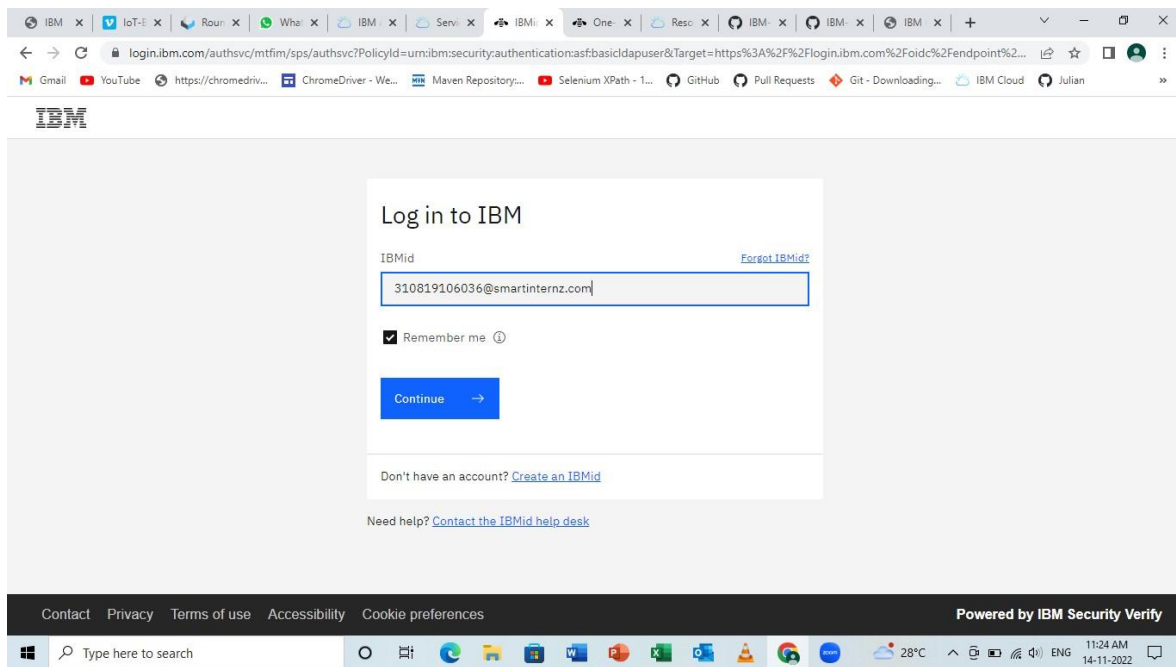
4. Clicking on the launch button in the manage tab, it will open to this.



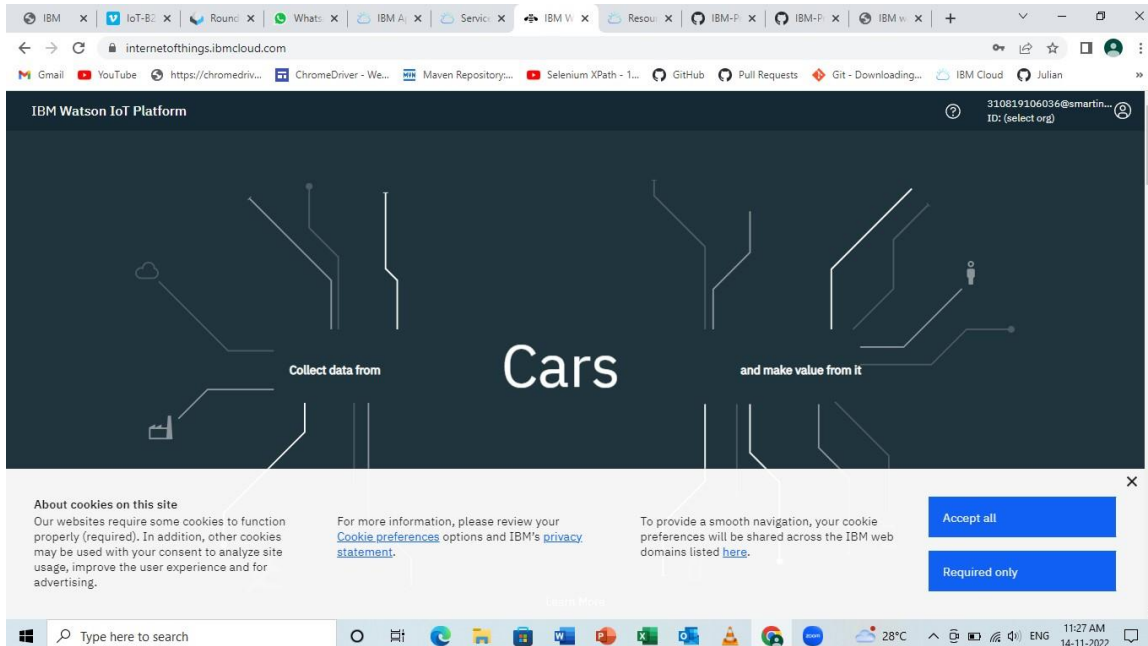
5. Enter the details to sign in to the Watson Cloud to create a device.



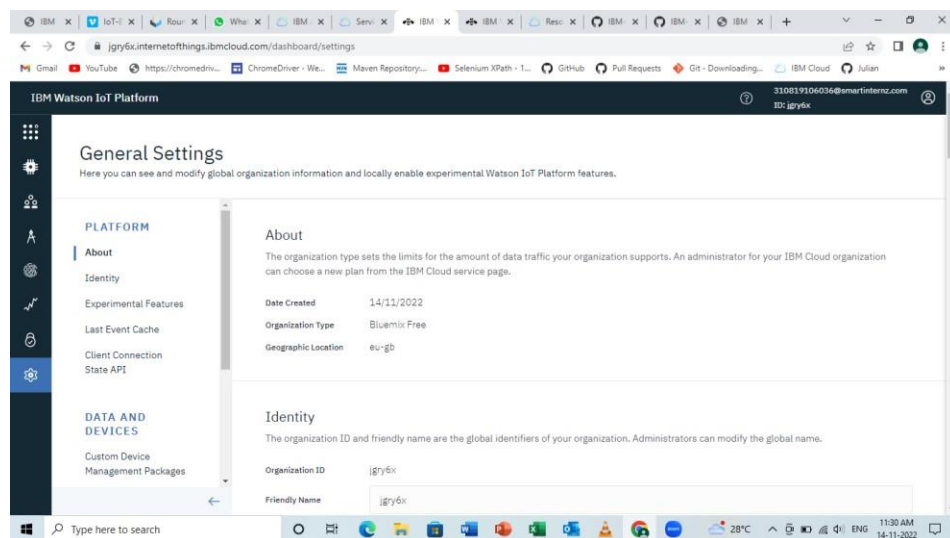
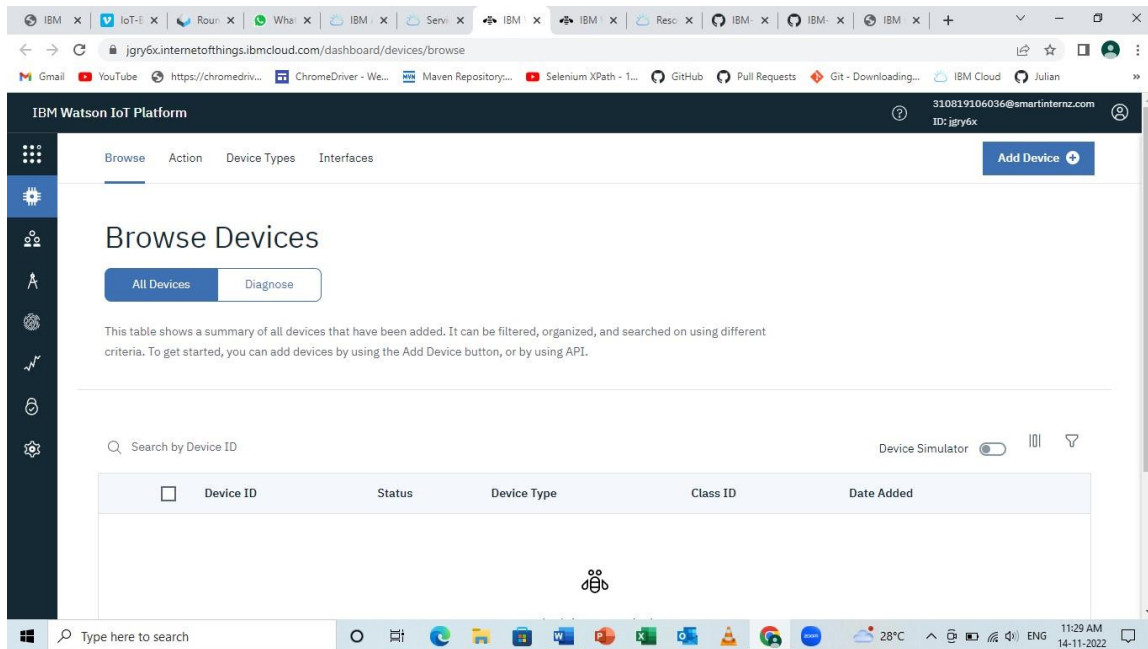
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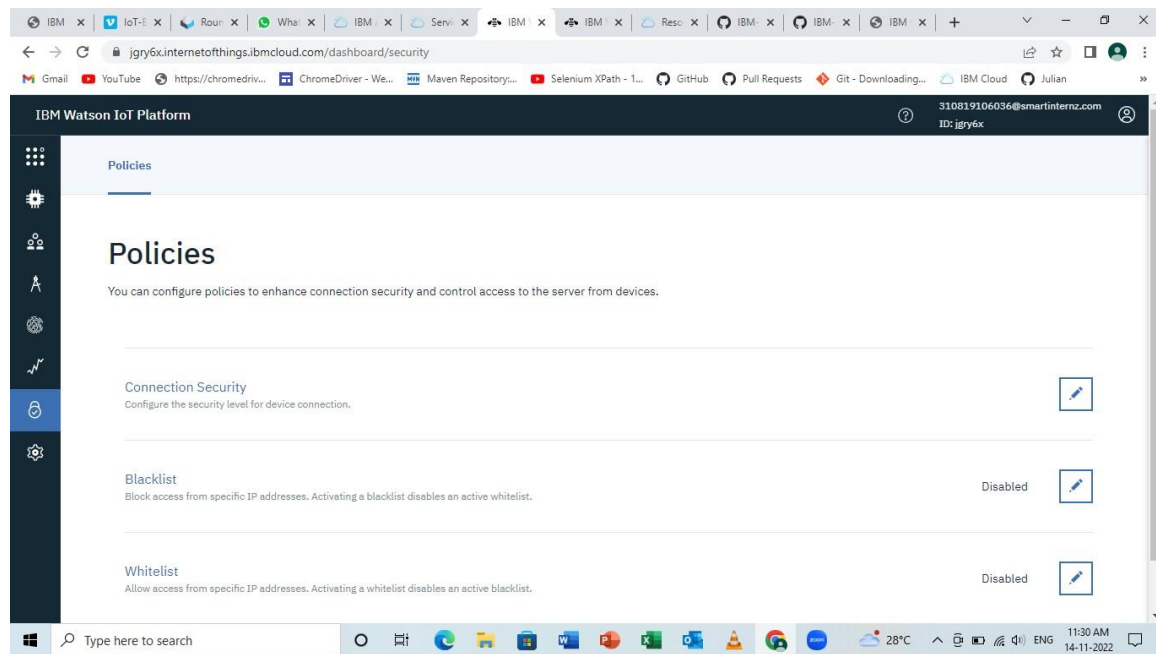
6. Once logged in the name will be displayed and it goes back to the first page.



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.

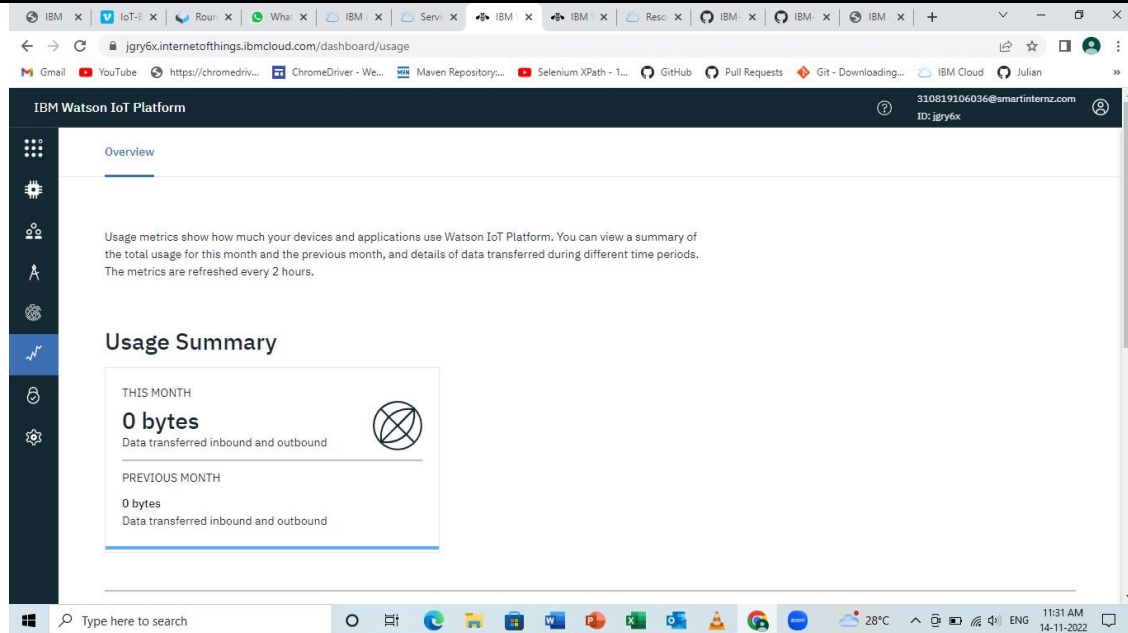


8. The setting tab is used to change the general setting if needed for the project.
9. the security tab we can choose the type of security connection and can change according to specification.



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

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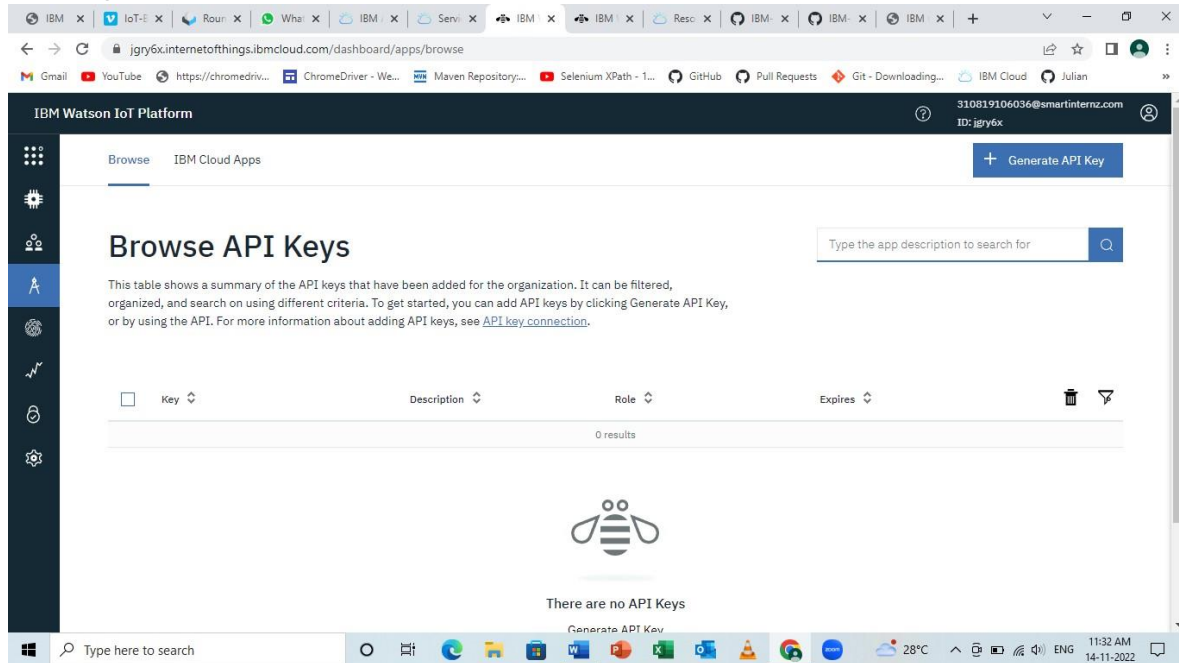
11. The member tab is add the teams members to work in the platform.

The screenshot shows the 'Browse Members' page in the IBM Watson IoT Platform. The page title is 'Browse Members'. Below the title, there is a description: 'This table shows a summary of the members of the organization. It can be filtered, organized, and search on using different criteria. To get started, you can add members by clicking Add Members, or by using the API. For more information about members, see [Managing user access](#).' A search bar is present with the placeholder text 'Type the member email to search for'. Below the search bar, there is a table with columns: 'Email Address', 'Name', 'Role', 'Added By', 'Expires', and a trash icon. The table shows 1 result. The first row contains the email '310819106036@smartinternz.com', the name '310819106036@smar...', the role 'Administrator', and empty fields for 'Added By' and 'Expires'. The top navigation bar includes the IBM logo and the user's email '310819106036@smartinternz.com' and ID 'igry6x'. The bottom status bar shows the Windows taskbar with various application icons and the system clock displaying '11:32 AM 14-11-2022'.

Email Address	Name	Role	Added By	Expires
310819106036@smartinternz.com	310819106036@smar...	Administrator	-	-

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



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



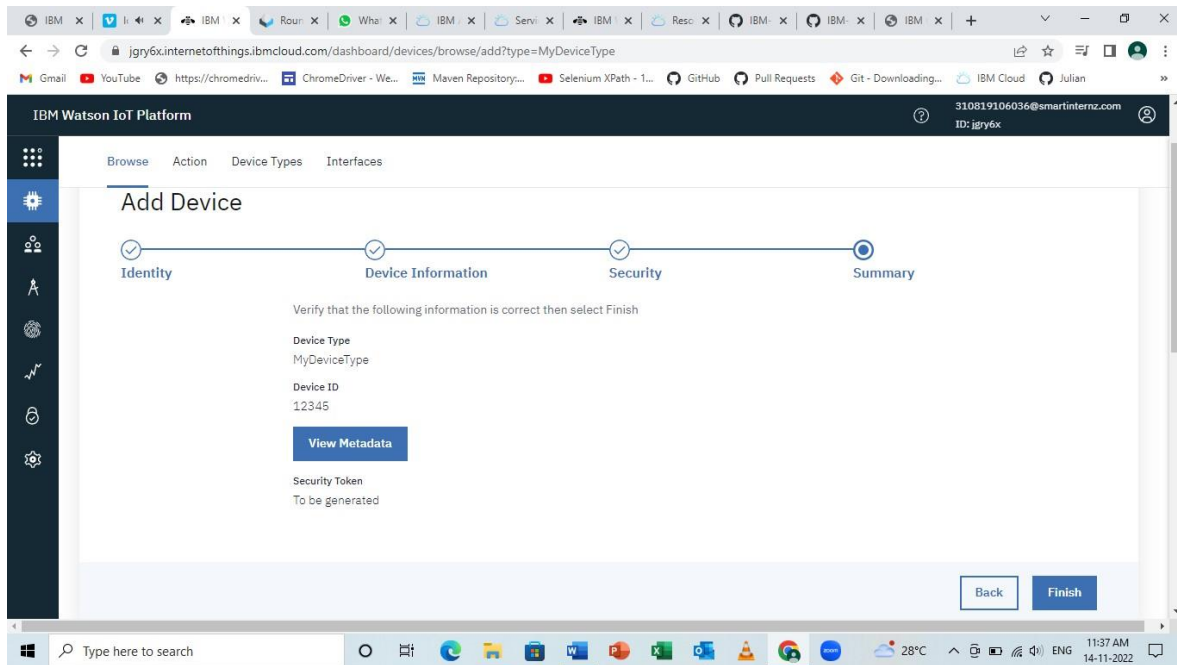
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The screenshot shows the 'Add Device' page in the IBM Watson IoT Platform. The page is titled 'Add Device' and has a progress bar with four steps: Identity, Device Information, Security, and Summary. The 'Identity' step is currently active. Below the progress bar, there is a text prompt: '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, there are 'Cancel' and 'Next' buttons. The top of the page shows the user's profile and the text '310819106036@smartinternz.com ID: jgry6x'.

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

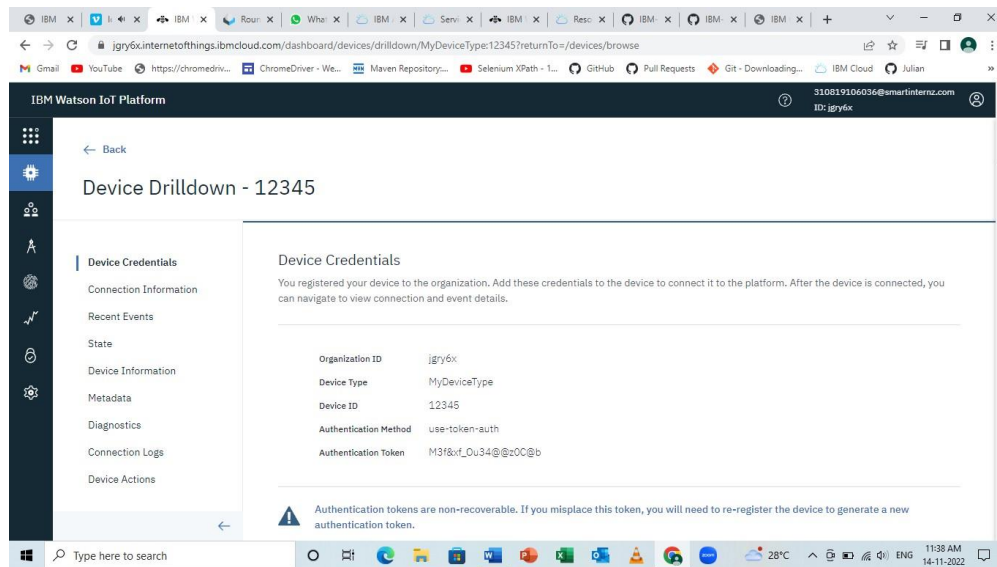
The screenshot shows the 'Add Device' page in the IBM Watson IoT Platform, specifically the 'Device Information' step. The progress bar indicates that 'Identity' is completed and 'Device Information' is the current step. Below the progress bar, there is a text prompt: 'You can modify the default device information and enter more information about the device for identification purposes.' There are two columns of input fields. The left column contains: 'Serial Number' (Enter Serial Number), 'Model' (Enter Model), 'Description' (Enter Description), and 'Hardware Version' (Enter Hardware Version). The right column contains: 'Manufacturer' (Enter Manufacturer), 'Device Class' (Enter Device Class), 'Firmware Version' (Enter Firmware Version), and 'Descriptive Location' (Enter Descriptive Location). At the bottom left, there is a button labeled 'Add Metadata +'. The top of the page shows the user's profile and the text '310819106036@smartinternz.com ID: m8jgxm'.

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

IBM Watson IoT Platform

Browse Action Device Types Interfaces

**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
12345	Disconnected	MyDeviceType	Device	14 Nov 2022 11:37

Items per page 50 | 1-1 of 1 item

1 of 1 page

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IBM Watson IoT Platform

Browse Action Device Types Interfaces

**Browse Devices**

Search by Device ID

Device Simulator

Device ID	Status	Device Type	Class ID	Date Added
199795	Disconnected	Nodemcu	Device	Nov 13, 2022 10:39 PM

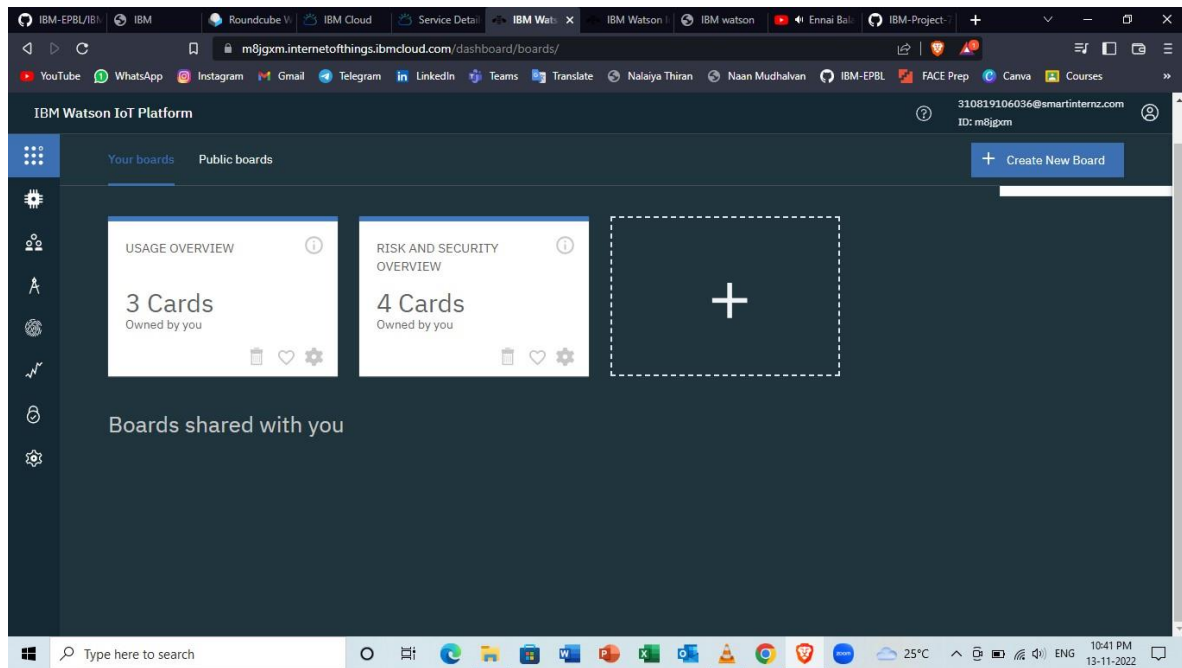
Items per page 50 | 1-1 of 1 item

1 of 1 page

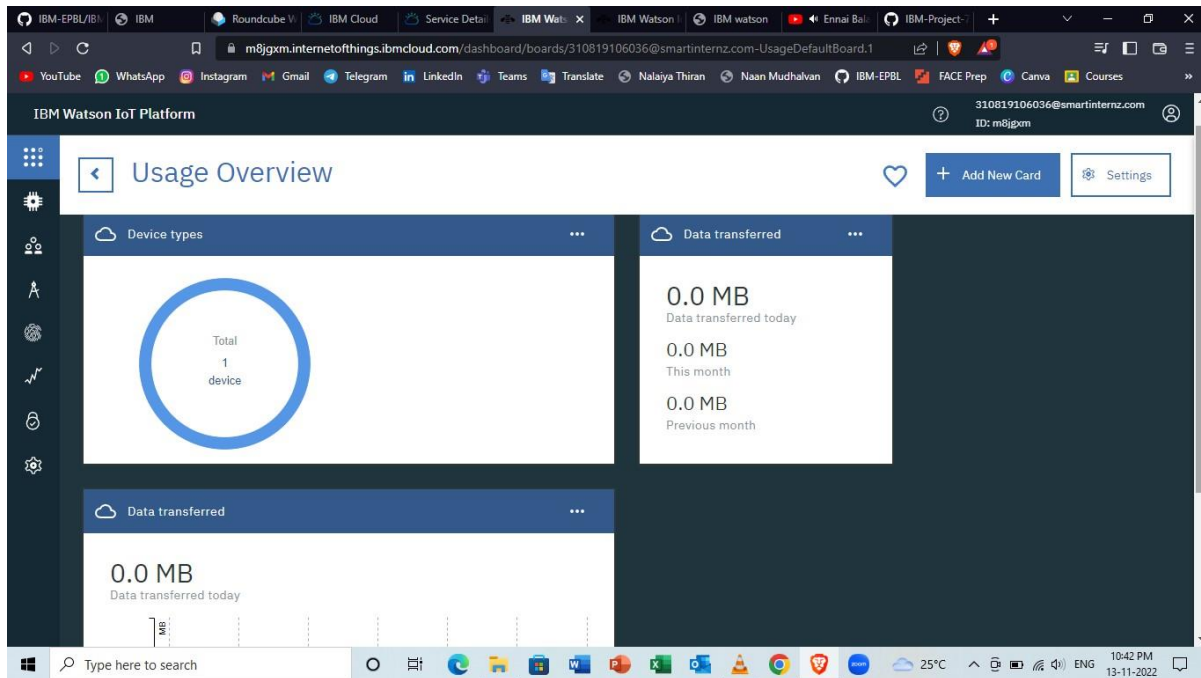
**Device Card Details:**

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

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.