

Team ID: PNT2022TMID20198

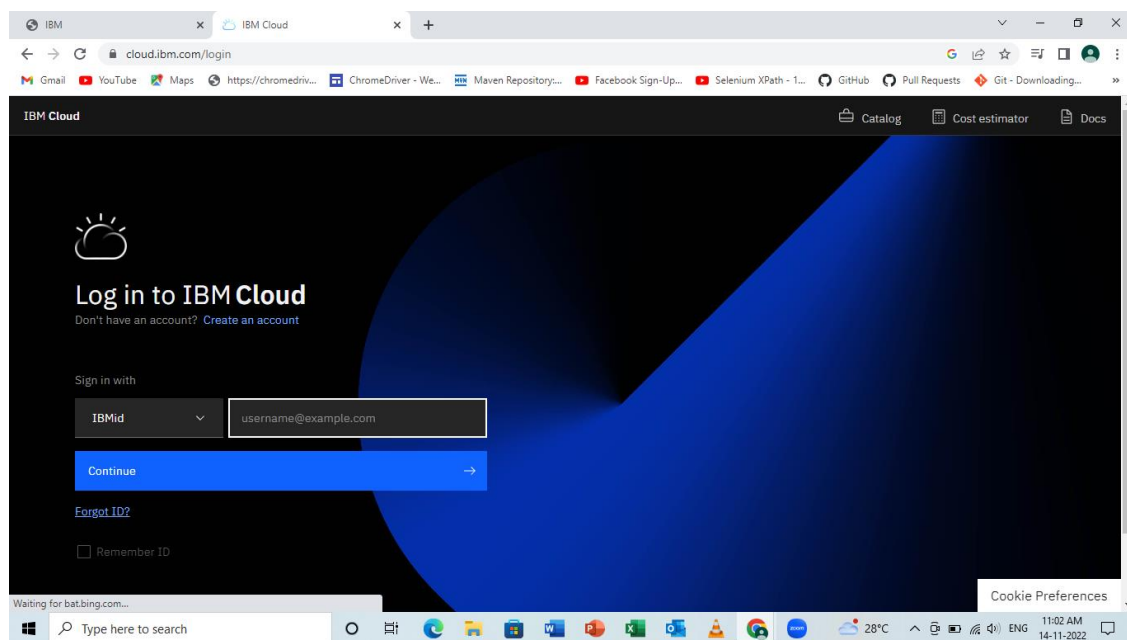
CREATE IBM WATSON IOT PLATFORM AND DEVICE

AIM:

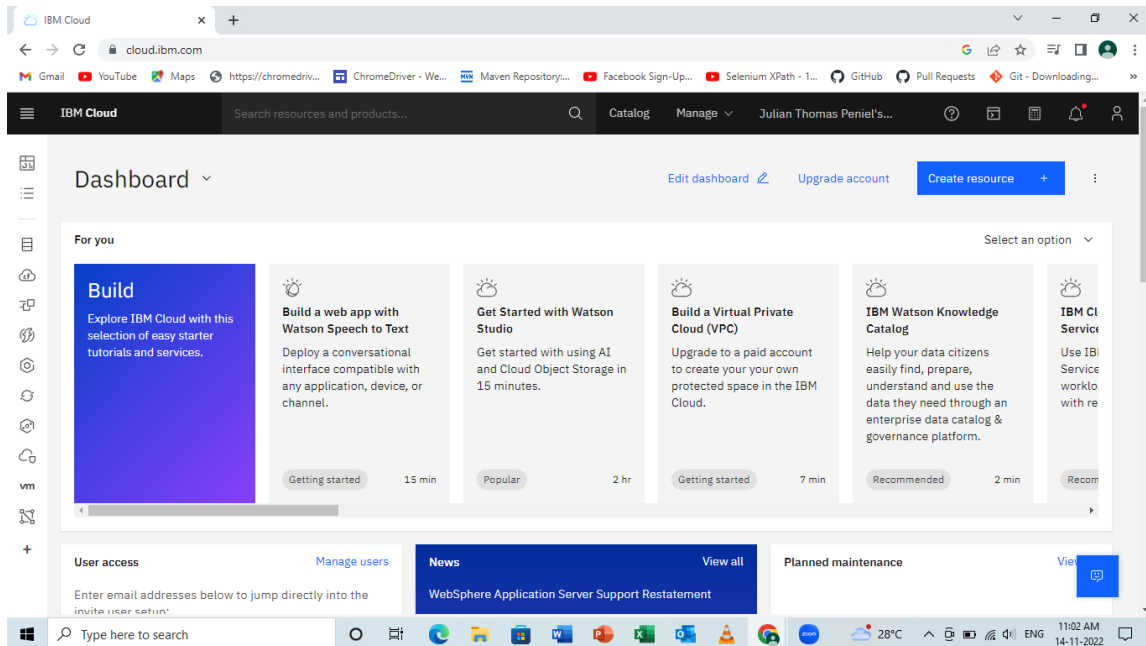
To create the IBM Watson IoT platform and device.

STEPS:

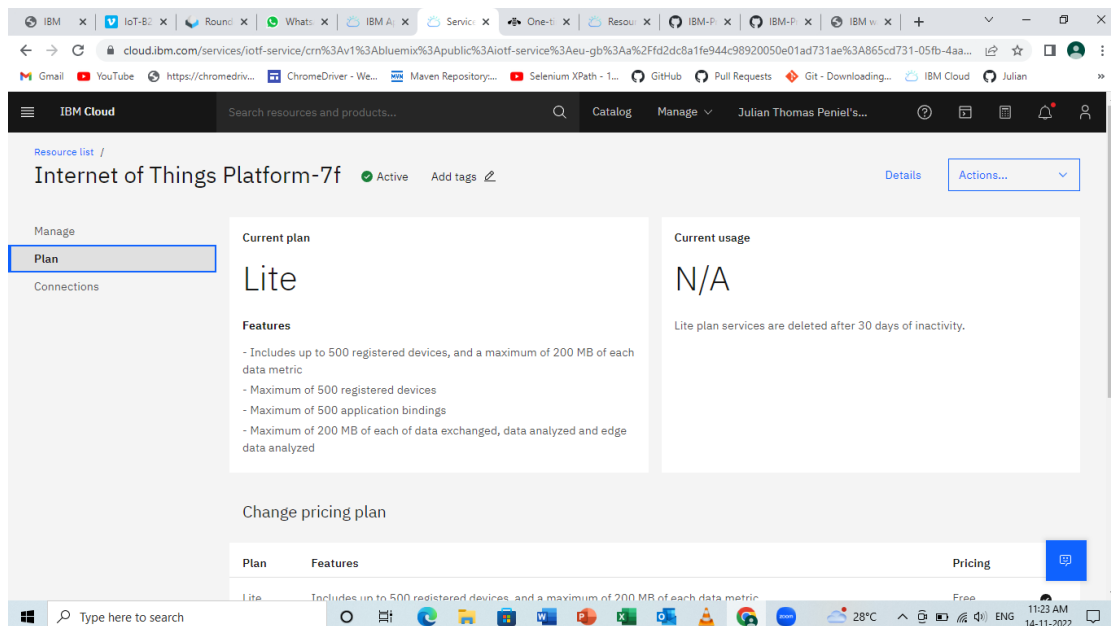
1. First create an IBM cloud account with IBM id and a password.



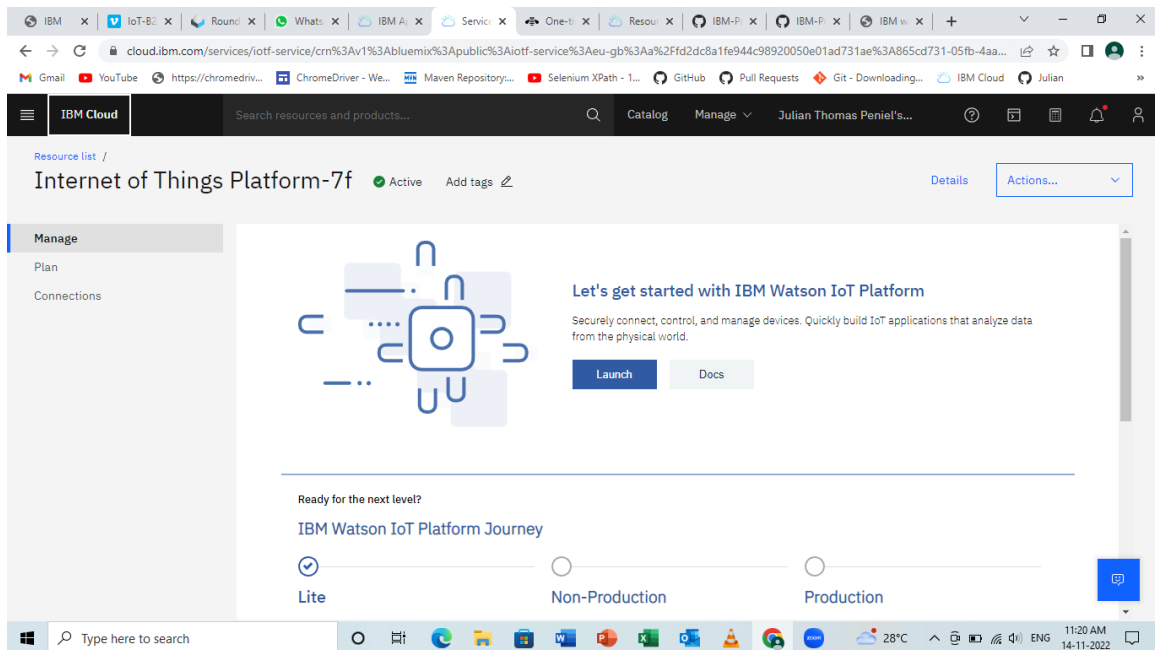
2. Home page of IBM cloud.



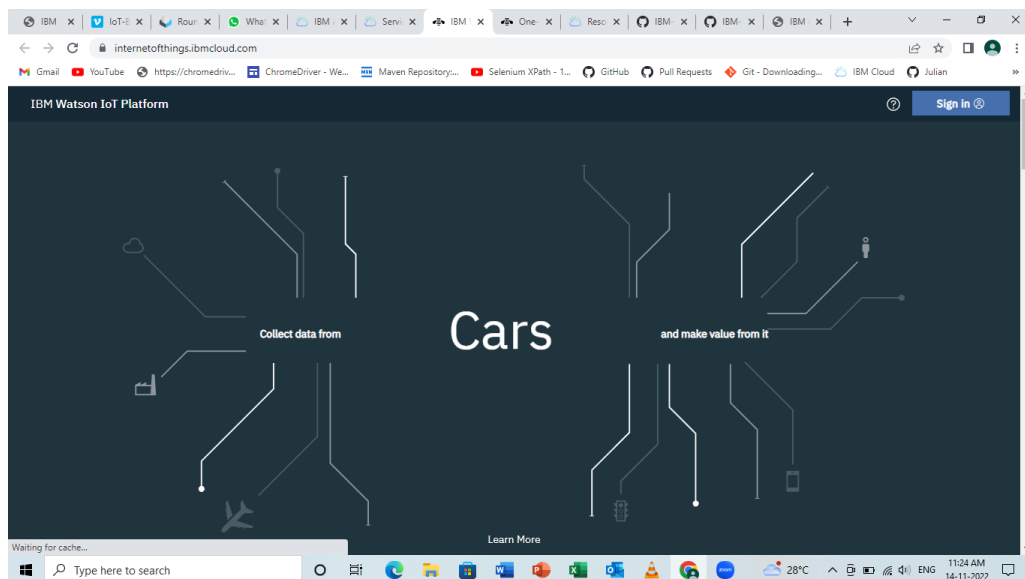
3. Internet of Things Platform Child safety will be created, where there are different options like manage, plan, and connection.

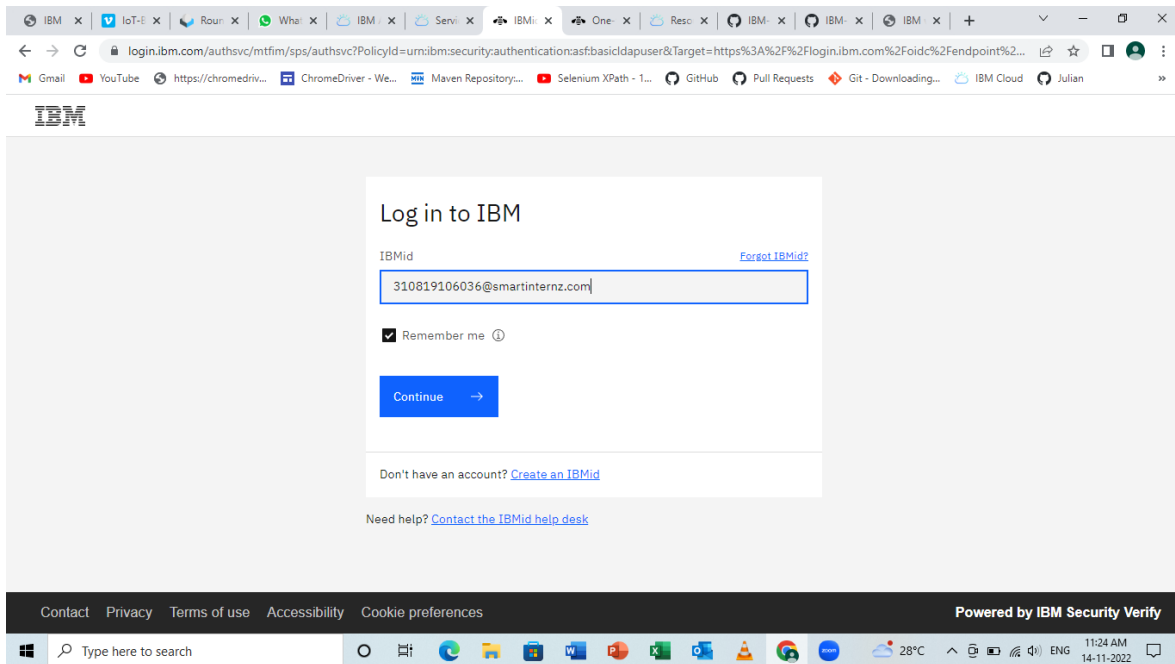


4. Clicking on the launch button in the manage tab, it will open to this.

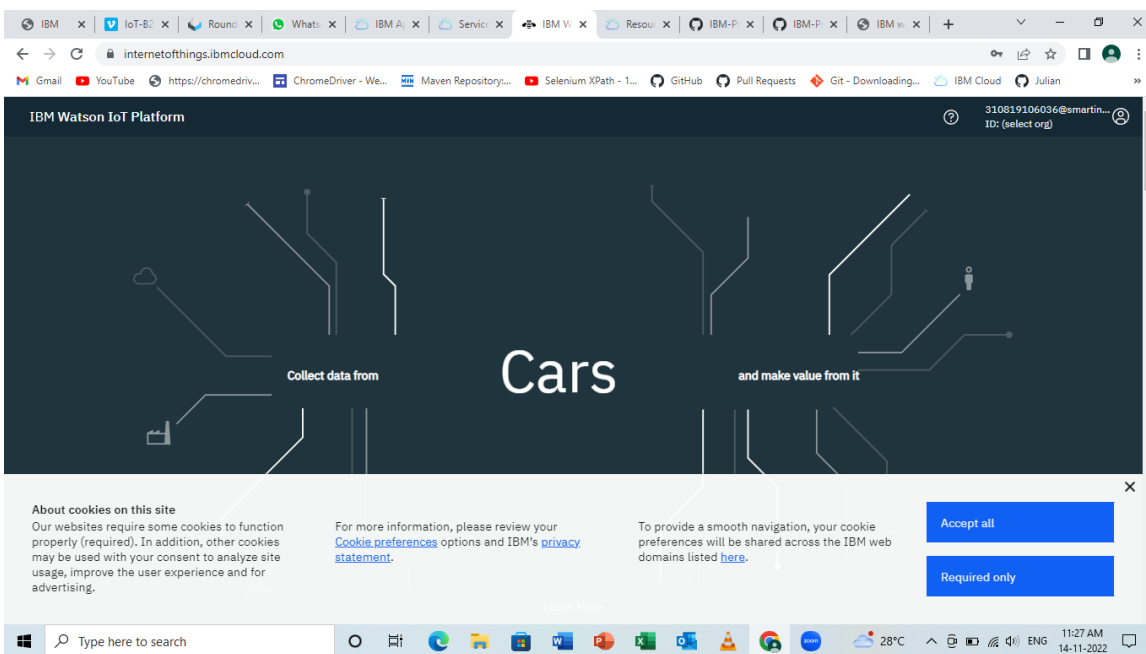


5. Enter the details to sign in to the Watson Cloud to create a device.

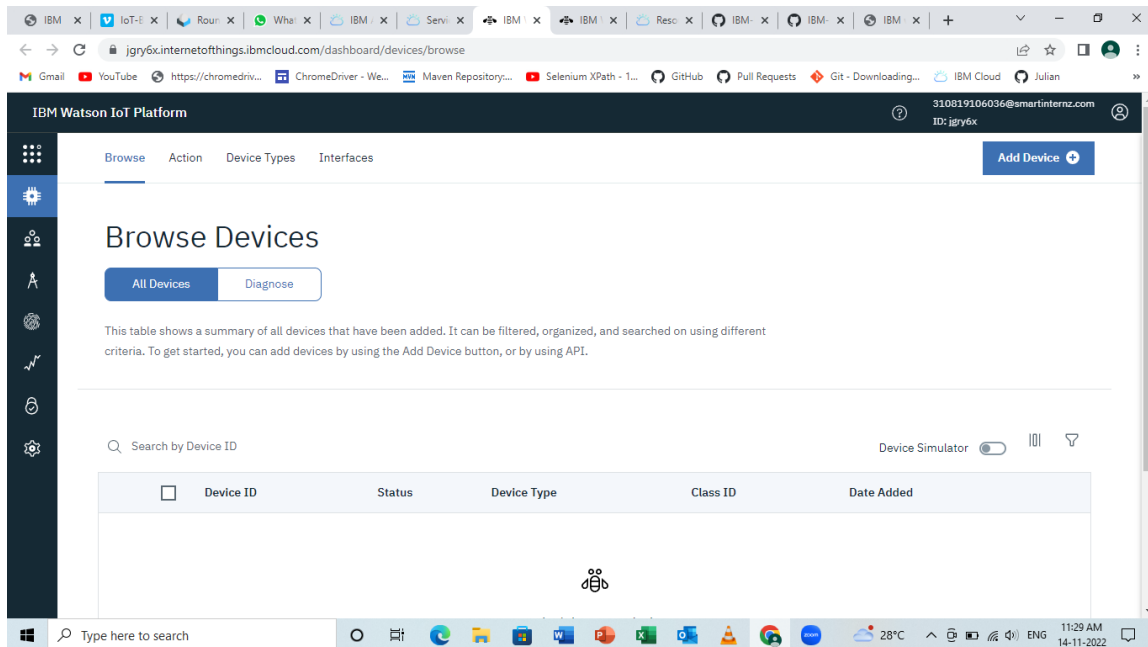




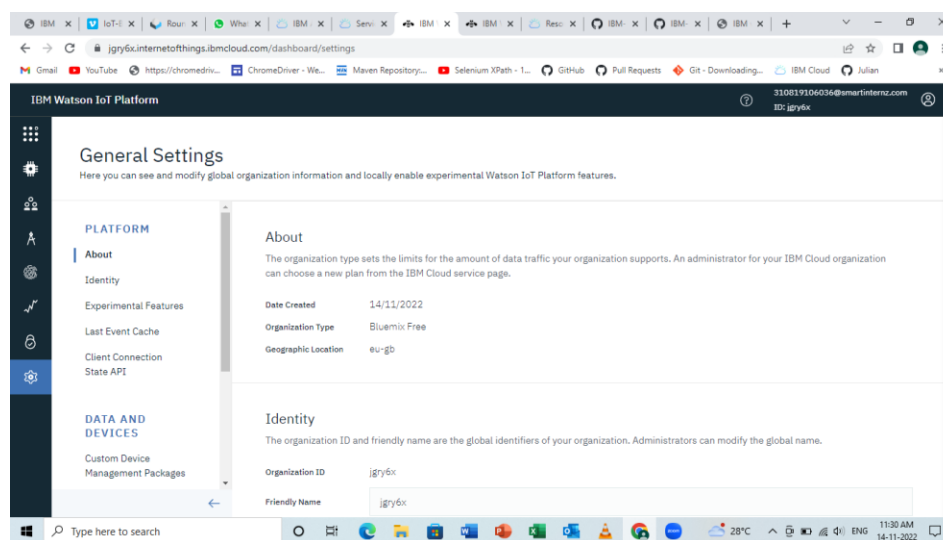
6. Once logged in the name will be displayed and it goes back to the first page.



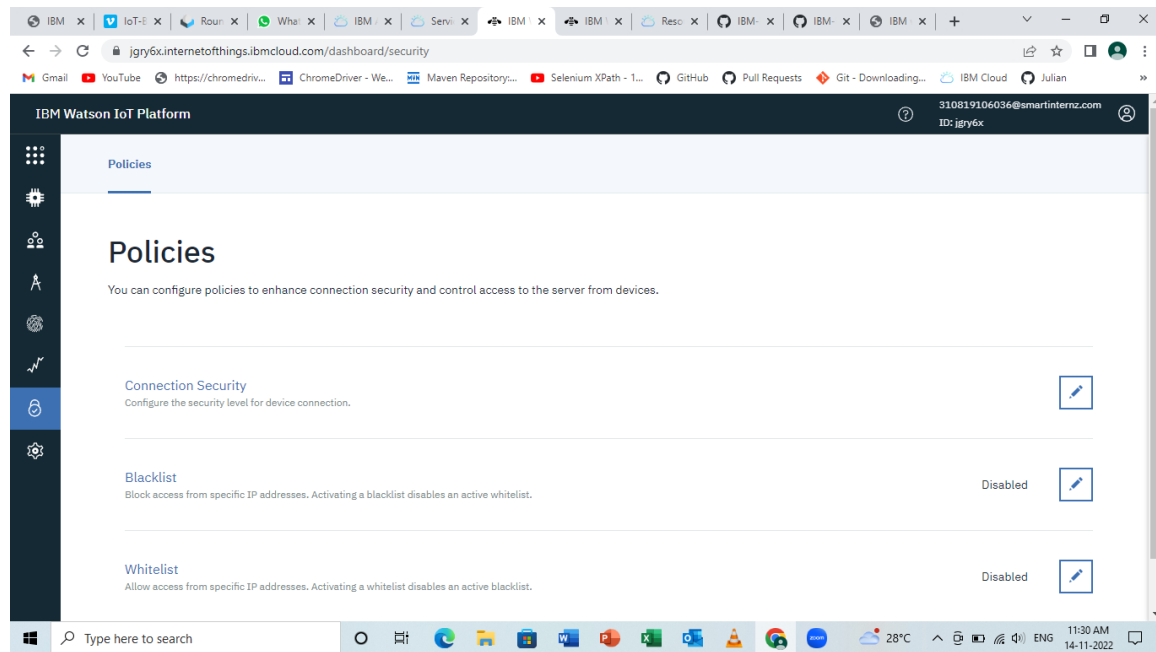
7. And again clicking on the launch button will open this tab, the device will help in the creation of the devices, the addition of devices, and the display of details of the devices.



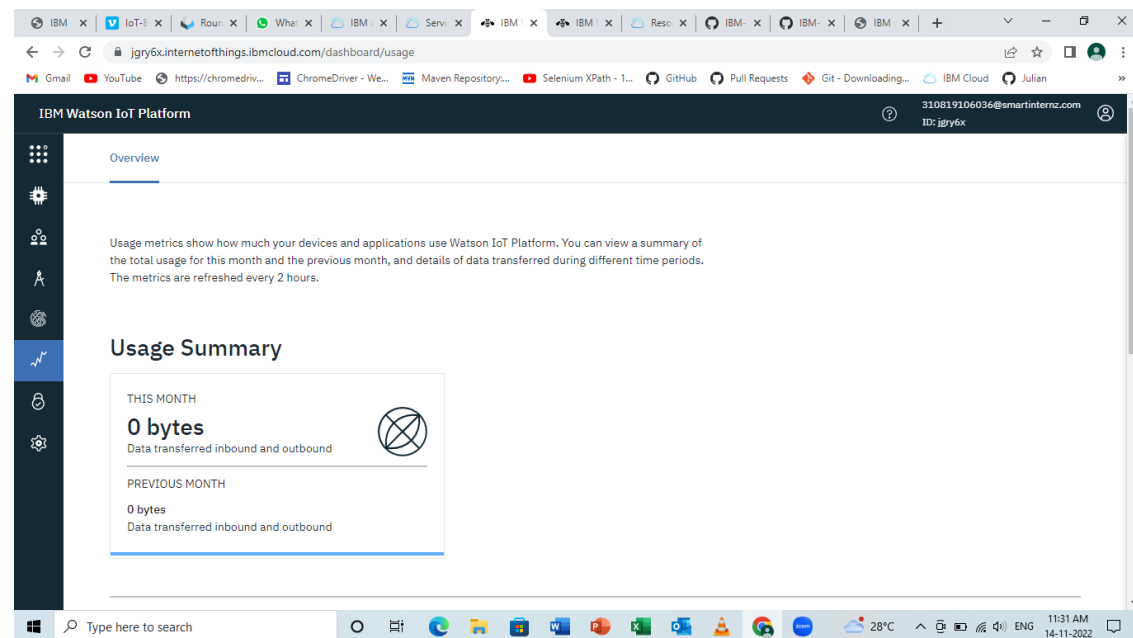
8. The setting tab is used to change the general setting if needed for the project.



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.



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 has a dark sidebar with navigation icons. The main content area has a header 'Browse' and a '+ Add Members' button. Below the header is a search bar with the placeholder 'Type the member email to search for'. A table below the search bar shows a summary of members. The table has columns: Email Address, Name, Role, Added By, and Expires. There is one result listed: 310819106036@smartinternz..., 310819106036@smar..., Administrator, -, and -. The bottom of the page shows a Windows taskbar with various application icons and a system tray with the date and time.

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

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

The screenshot shows the 'Browse API Keys' page in the IBM Watson IoT Platform. The page has a dark sidebar with navigation icons. The main content area has a header 'Browse' and a '+ Generate API Key' button. Below the header is a search bar with the placeholder 'Type the app description to search for'. A table below the search bar shows a summary of API keys. The table has columns: Key, Description, Role, and Expires. There are 0 results listed. Below the table, there is a bee icon and the text 'There are no API Keys'. The bottom of the page shows a Windows taskbar with various application icons and a system tray with the date and time.

Key	Description	Role	Expires
0 results			

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 displayed with a progress bar showing 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.' The 'Device Type' field contains 'Nodemcu' and the 'Device ID' field contains '199795'. At the bottom right of the wizard, there are 'Cancel' and 'Next' buttons. The browser's address bar shows the URL 'jgry6x.internetofthings.ibmcloud.com/dashboard/devices/browse/add'. The Windows taskbar at the bottom shows the time as 11:33 AM on 14-11-2022.

IBM Watson IoT Platform

310819106036@smartinternz.com
ID: jgry6x

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

Type here to search

28°C 11:33 AM 14-11-2022

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 progress bar indicates four steps: Identity, Device Information (current), Security, and Summary. The 'Device Information' section contains the following fields:

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 fields is a button labeled 'Add Metadata +'. The user's email '310819106036@smartinternz.com' and ID 'm8jgxm' are visible in the top right corner.

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

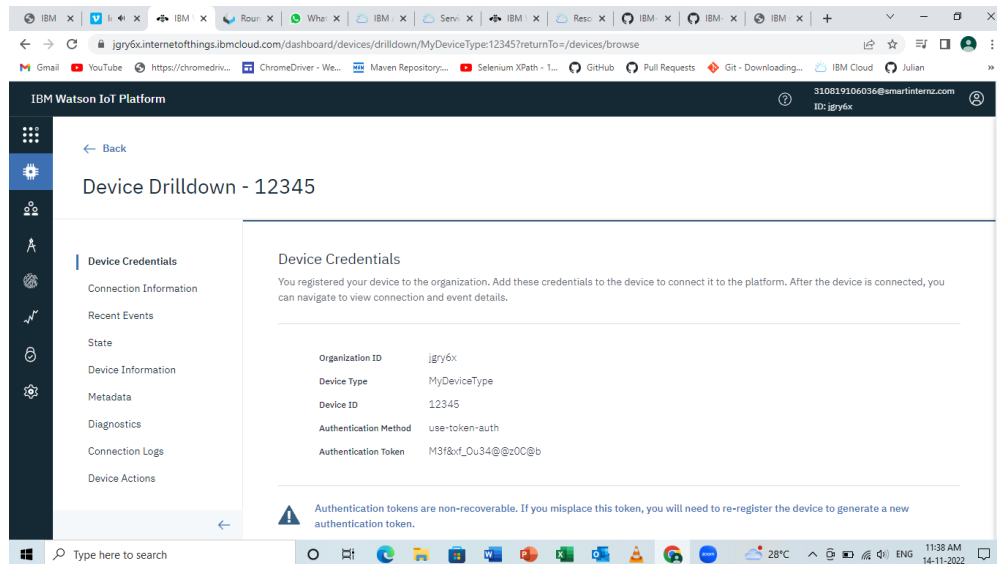
The screenshot shows the 'Add Device' page in the IBM Watson IoT Platform, now at the 'Summary' step. The progress bar shows all four steps completed. The 'Summary' section displays the following information:

Verify that the following information is correct then select Finish

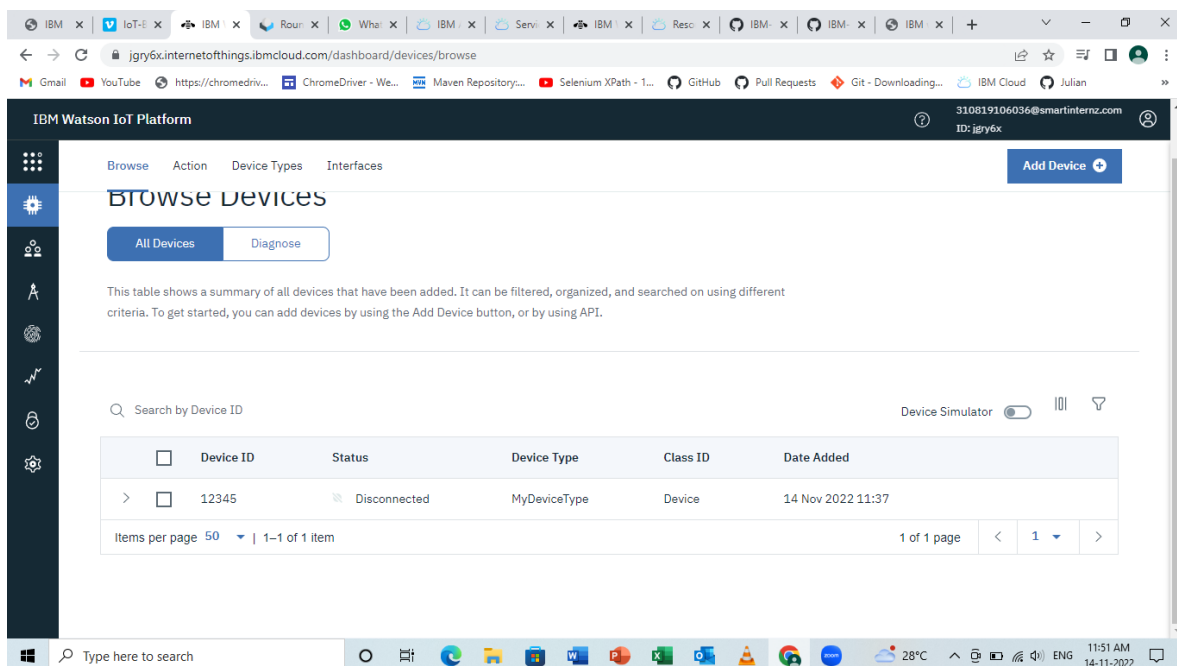
Device Type	MyDeviceType
Device ID	12345
Security Token	To be generated

Below the table is a button labeled 'View Metadata'. At the bottom right are 'Back' and 'Finish' buttons. The user's email '310819106036@smartinternz.com' and ID 'jgry6x' are visible in the top right corner.

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

310819106036@smartinternz.com
ID: m8jgxm

Device Simulator ☐

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

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

Items per page 50 | 1-1 of 1 item

1 of 1 page

18. The Boards will display card for the project.

IBM Watson IoT Platform

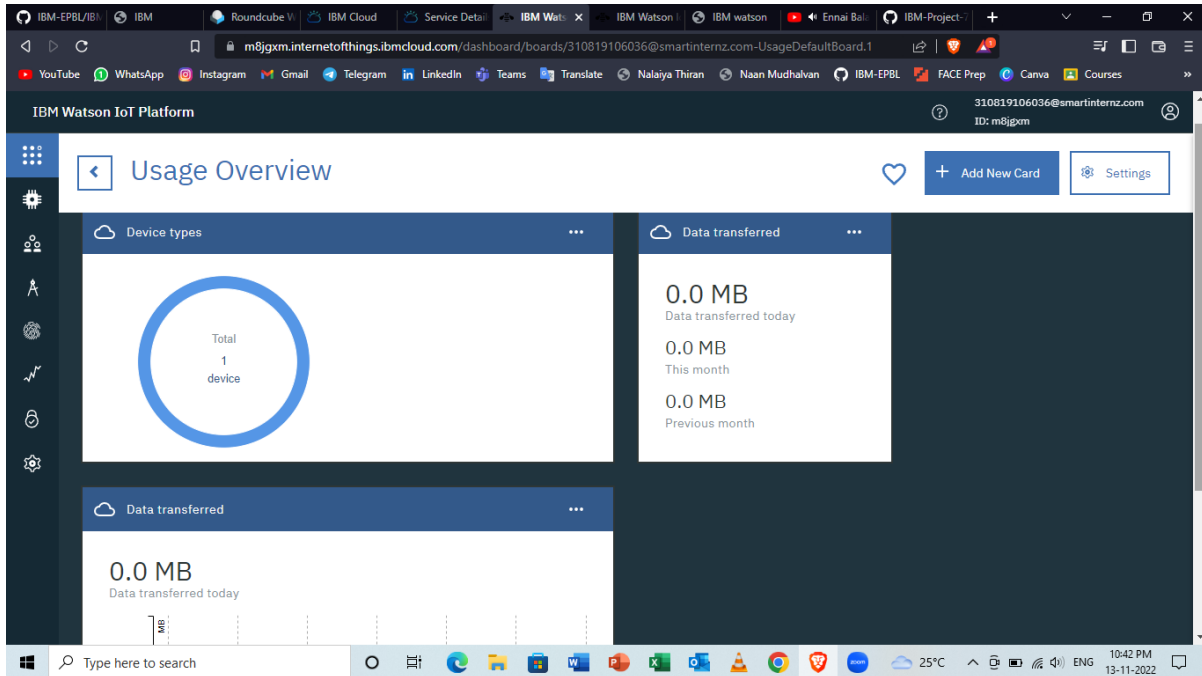
310819106036@smartinternz.com
ID: m8jgxm

Create New Board

Usage Overview: 3 Cards Owned by you

Risk and Security Overview: 4 Cards Owned by you

Boards shared with you



RESULT:

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