

# CREATE IBM WATSON IOT PLATFORM AND DEVICE

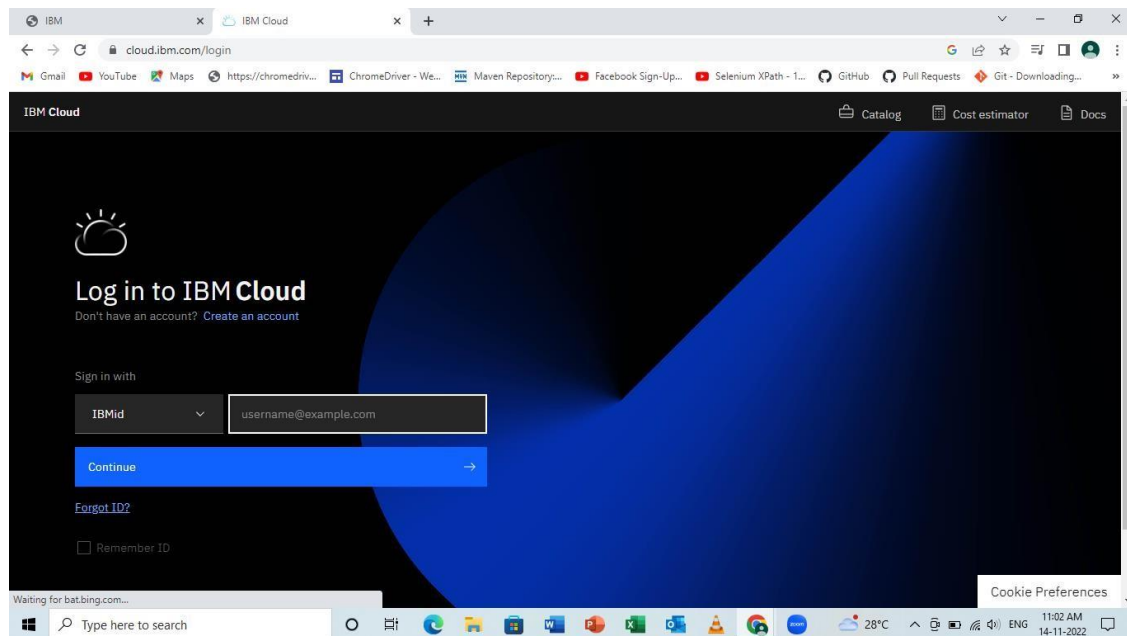
<b>Date</b>	<b>16.11.2022</b>
<b>Team ID</b>	<b>PNT2022TMID46236</b>
<b>Project Name</b>	<b>Project - IOT based safety gadget for Child safety monitoring and notification</b>
<b>Maximum Marks</b>	

## AIM:

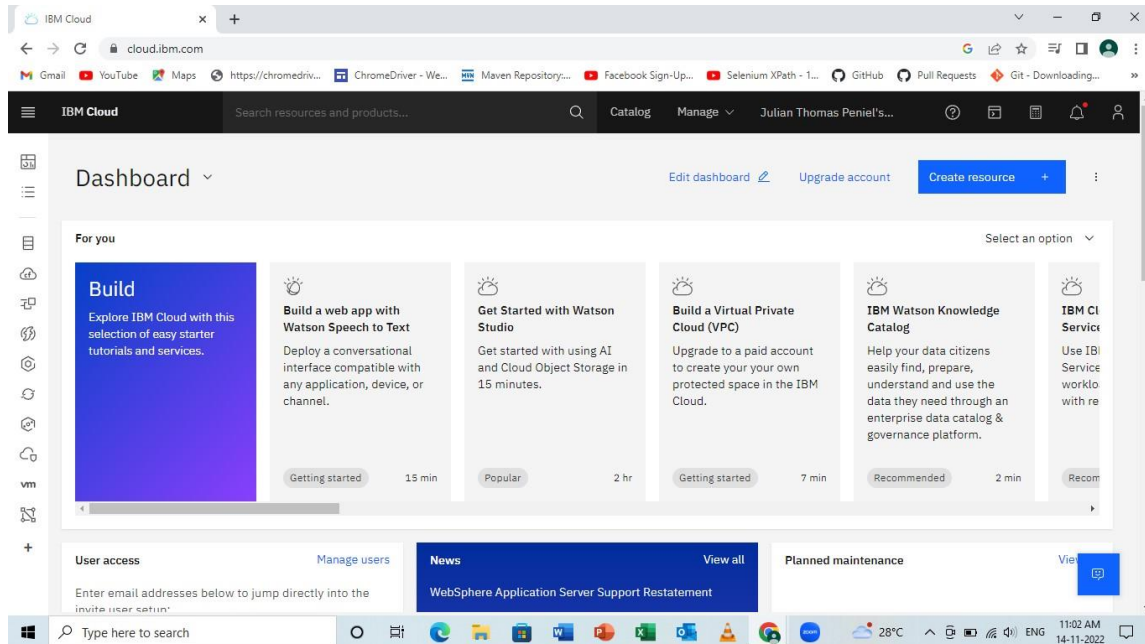
To create the IBM Watson IoT platform and device.

## STEPS:

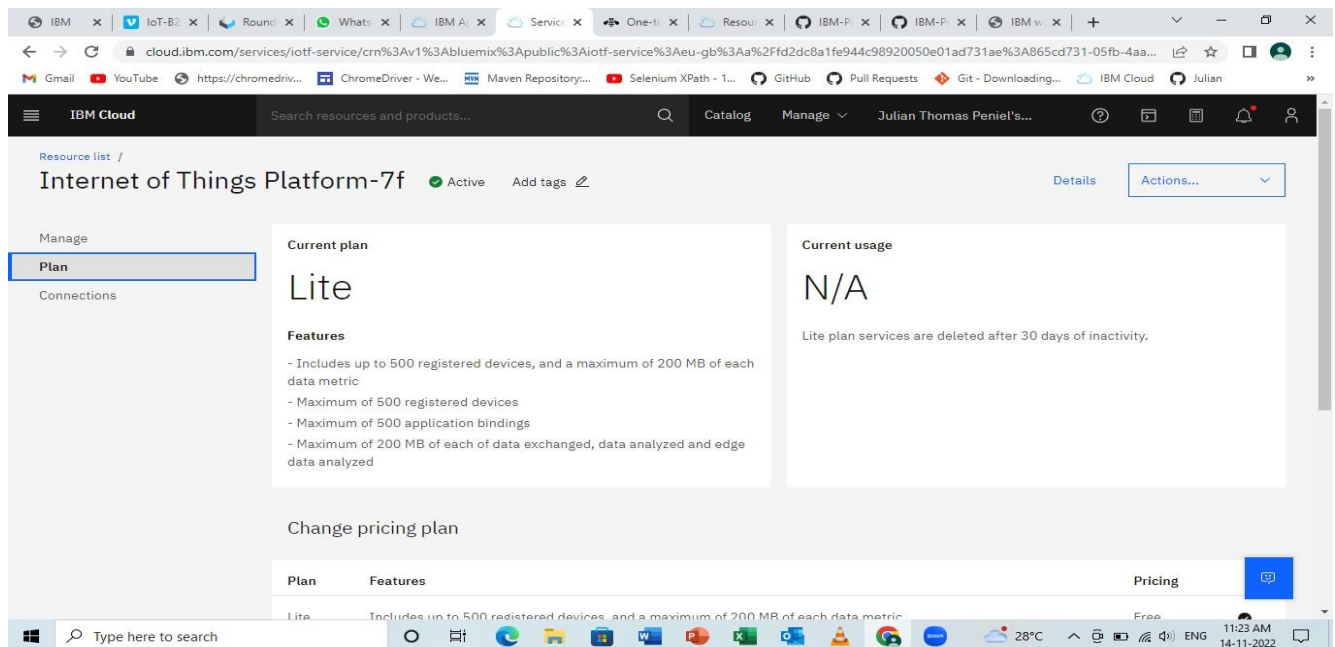
1. First create an IBM cloud account with IBM id and a password.



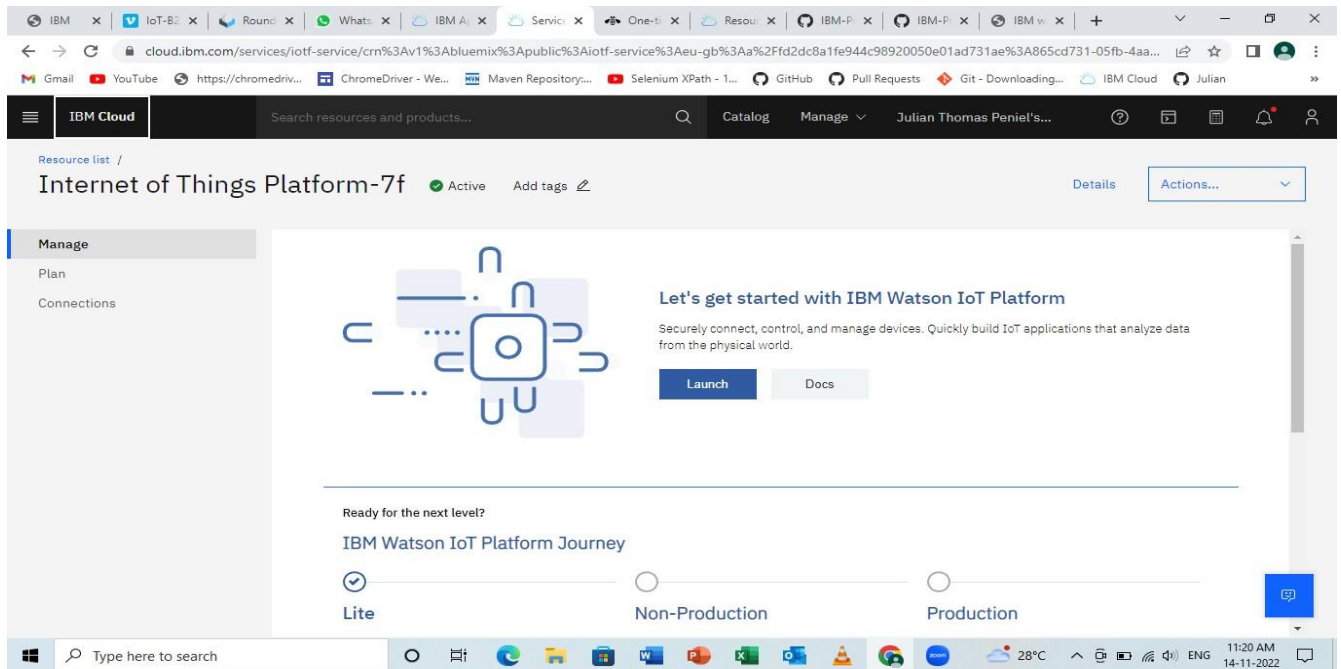
## 2.Home page of IBM cloud.



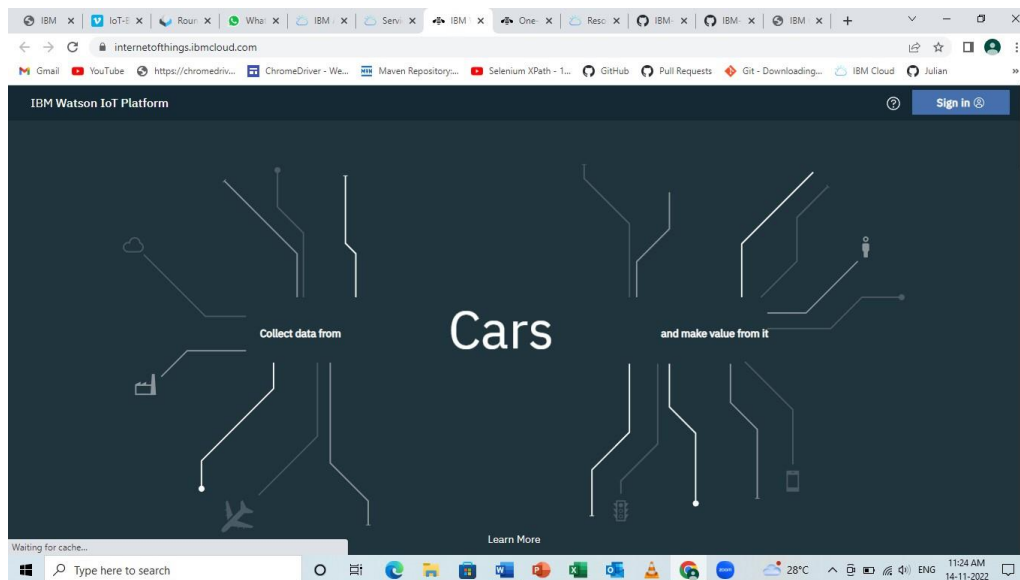
## 3. Internet of Things Platform Child safety will be created, where there are different options like manage, plan, and connection.

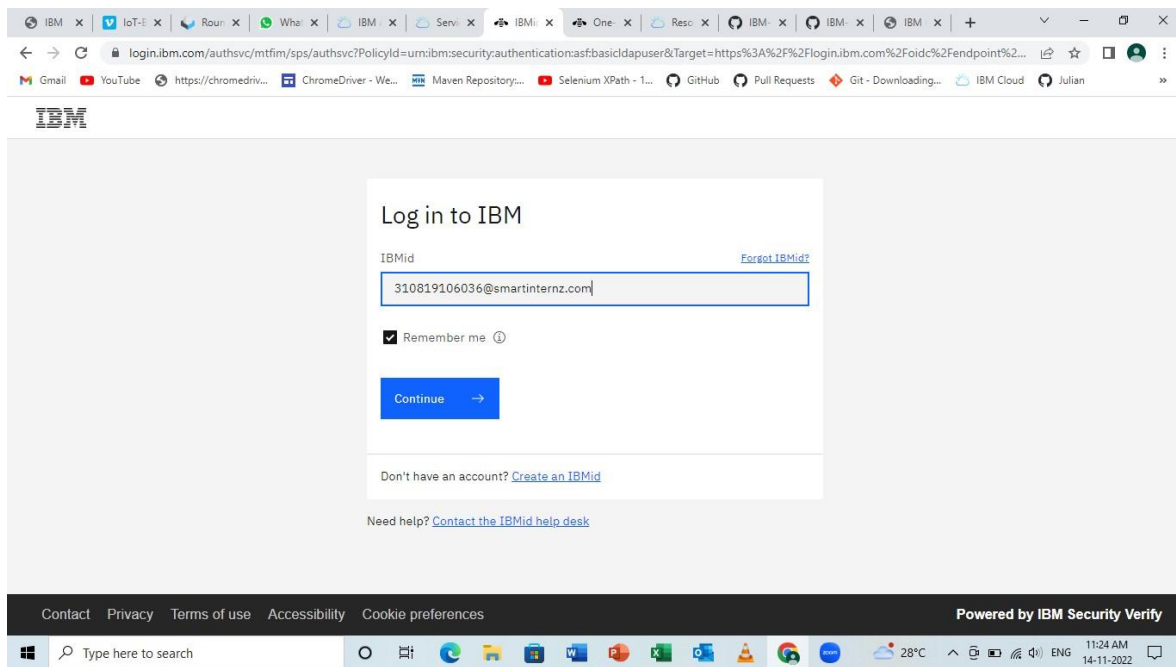


**4. Clicking on the launch button in the manage tab, it will open to this.**

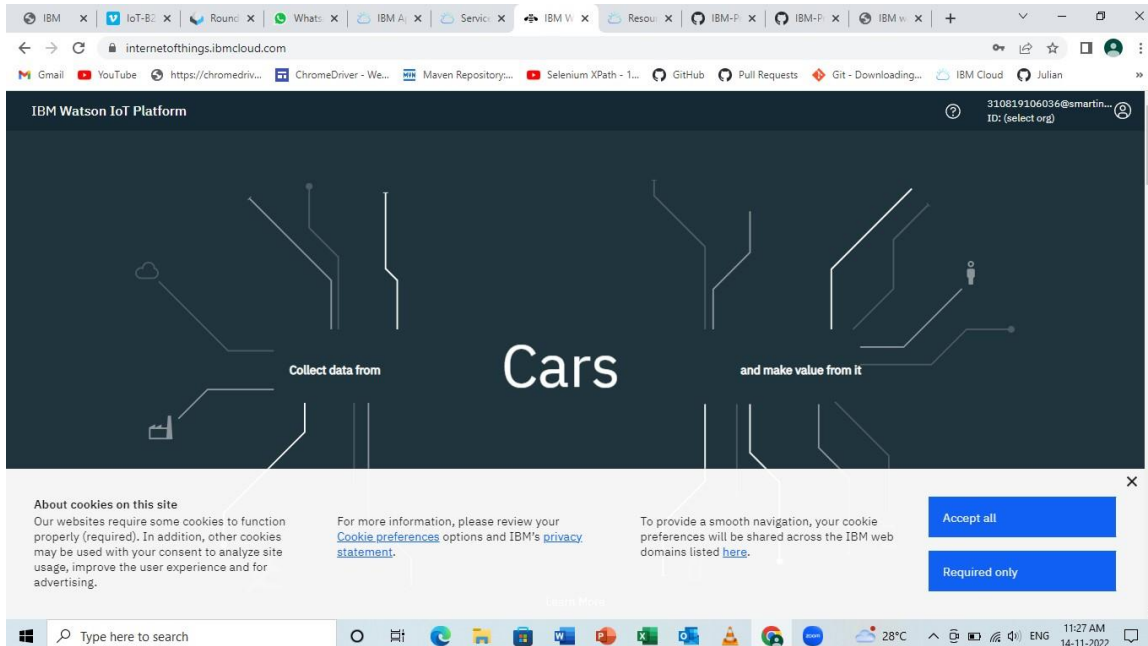


**5. Enter the details to sign in to the Watson Cloud to create a device.**





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



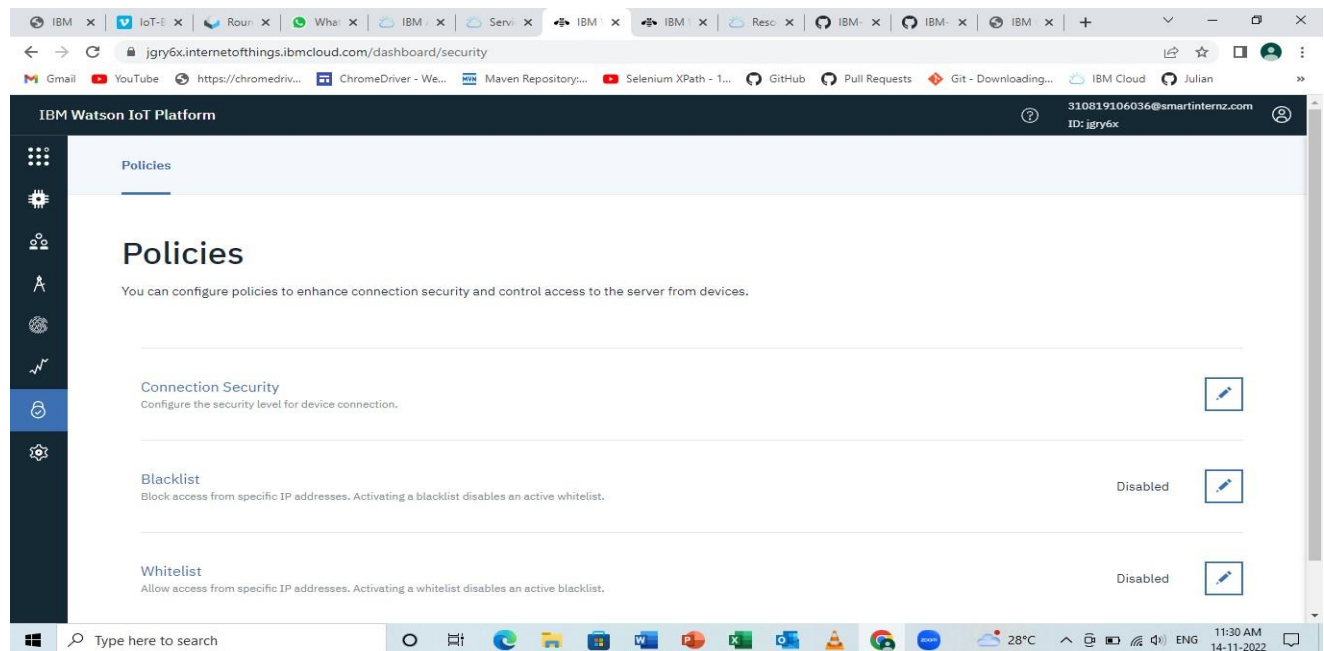
**7. And again clicking on the launch button will open this tab, the device will help in the creation of the devices, the addition of devices, and the display of details of the devices.**

The screenshot shows the 'Browse Devices' page in the IBM Watson IoT Platform. The page has a dark blue header with the platform name and user information. A sidebar on the left contains navigation icons. The main content area has tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. Below the tabs, there's a 'Browse Devices' section with buttons for 'All Devices' and 'Diagnose'. A text block explains that the table shows a summary of all devices and can be filtered or searched. Below this is a search bar labeled 'Search by Device ID' and a 'Device Simulator' toggle. A table with the following columns is visible: Device ID, Status, Device Type, Class ID, and Date Added. The table is currently empty. The bottom of the screen shows a Windows taskbar with various application icons and system information like temperature and time.

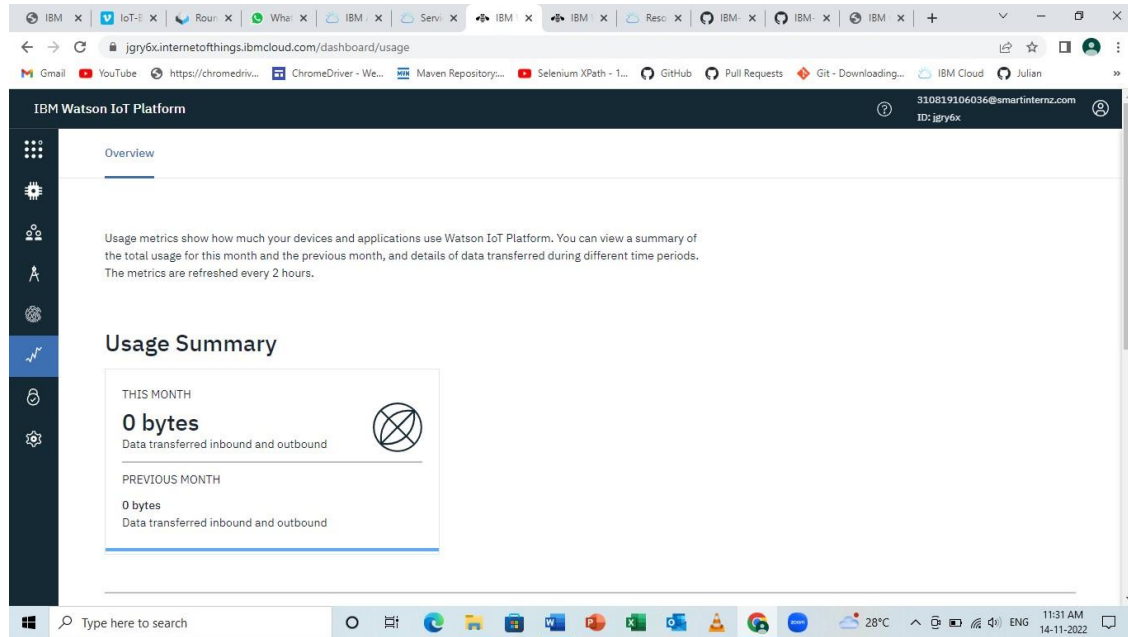
The screenshot shows the 'General Settings' page in the IBM Watson IoT Platform. The page has a dark blue header with the platform name and user information. A sidebar on the left contains navigation icons. The main content area has a 'General Settings' section with a description. Below this, there are two main sections: 'PLATFORM' and 'DATA AND DEVICES'. The 'PLATFORM' section includes 'About' and 'Identity' sub-sections. The 'About' sub-section shows details like 'Date Created' (14/11/2022), 'Organization Type' (Bluemix Free), and 'Geographic Location' (eu-gb). The 'Identity' sub-section shows the 'Organization ID' and 'Friendly Name' (both 'jgry6x'). The 'DATA AND DEVICES' section includes 'Custom Device' and 'Management Packages' sub-sections. The bottom of the screen shows a Windows taskbar with various application icons and system information like temperature and time.

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

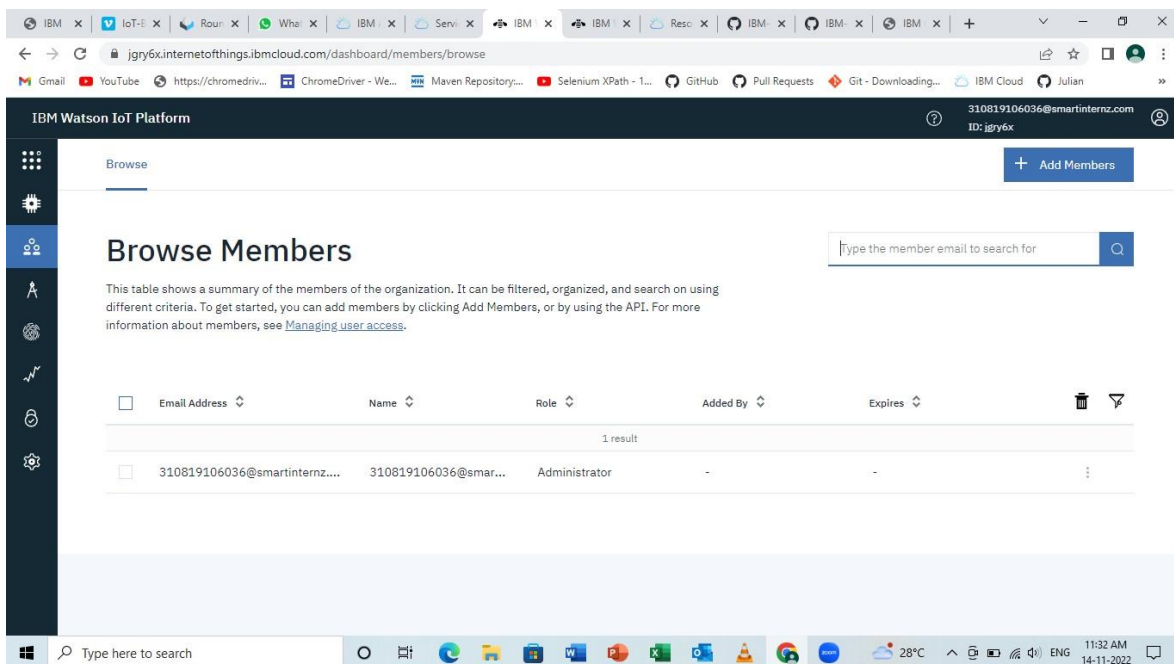
**9.the security tab we can choose the type of security connection and can change according to specification.**



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

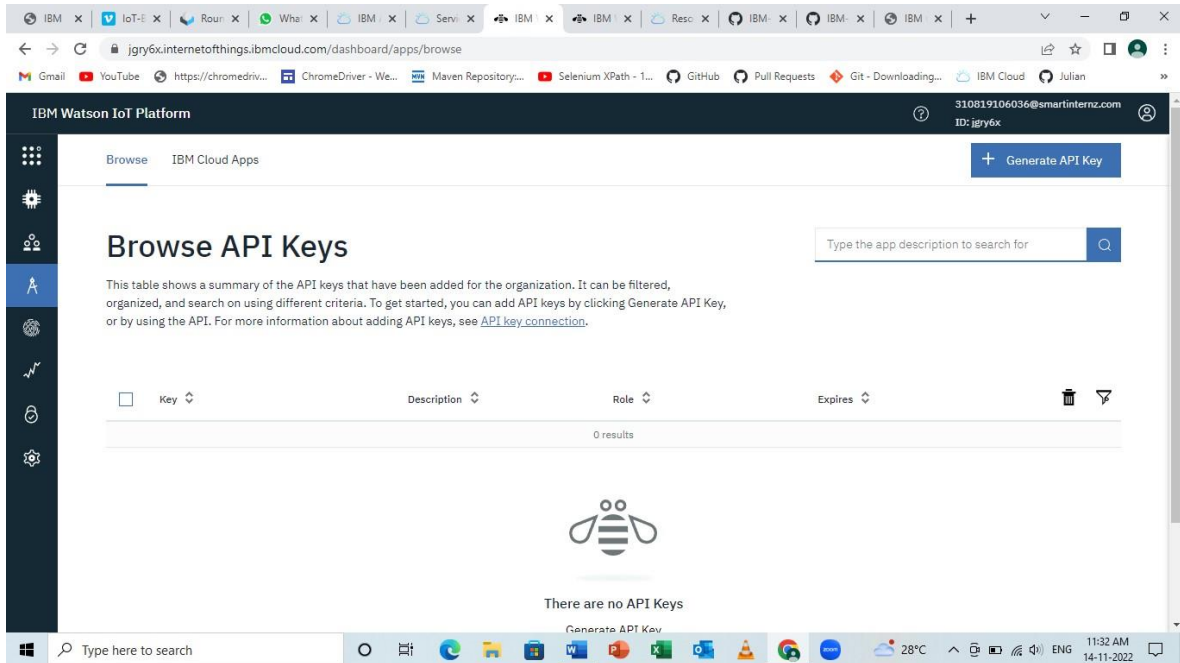


## 11. The member tab is add the teams members to work in the platform.

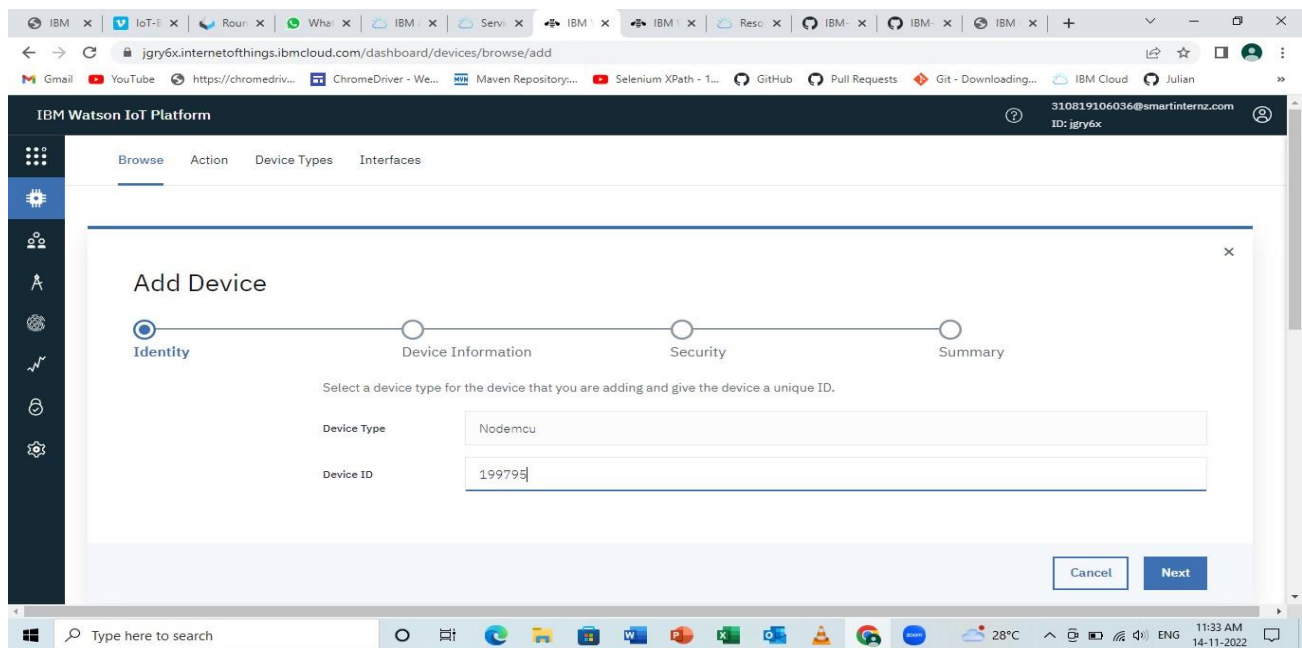




**12. This tab is used when you want to connect to some other platform and to integrate with other services.**



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





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 (completed), Device Information (current), Security, and Summary. The 'Device Information' section contains several input fields for device details:

Field	Value
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 top navigation bar shows the user is logged in as 'm8jgxm'.

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 (Identity, Device Information, Security, Summary) as completed. The 'Summary' section displays the following information:

- Device Type: MyDeviceType
- Device ID: 12345
- Security Token: To be generated

There is a 'View Metadata' button. At the bottom right, there are 'Back' and 'Finish' buttons. The top navigation bar shows the user is logged in as 'jgry6x'.

## 16. The device credentials will be displayed with all the details.

The screenshot shows the 'Device Drilldown - 12345' page in the IBM Watson IoT Platform. The left sidebar contains a navigation menu with options: Device Credentials, Connection Information, Recent Events, State, Device Information, Metadata, Diagnostics, Connection Logs, and Device Actions. The main content area is titled 'Device Credentials' and includes a warning icon and text: 'Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token.'

Property	Value
Organization ID	jgry6x
Device Type	MyDeviceType
Device ID	12345
Authentication Method	use-token-auth
Authentication Token	M3f&xf_Ou34@@z0C@b

## 17. Clicking on the device tab we can now see the added device. Clicking on it will display the other details.

The screenshot shows the 'Browse Devices' page in the IBM Watson IoT Platform. The page has tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. Below the tabs, there are buttons for 'All Devices' and 'Diagnose'. A search bar is present with the text 'Search by Device ID'. To the right of the search bar is a 'Device Simulator' toggle switch. Below these elements is a table with the following data:

Device ID	Status	Device Type	Class ID	Date Added
12345	Disconnected	MyDeviceType	Device	14 Nov 2022 11:37

At the bottom of the table, there is a pagination control showing 'Items per page 50' and '1 of 1 item'.

IBM Watson IoT Platform

Browse Action Device Types Interfaces

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

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

Your boards Public boards

Create New Board

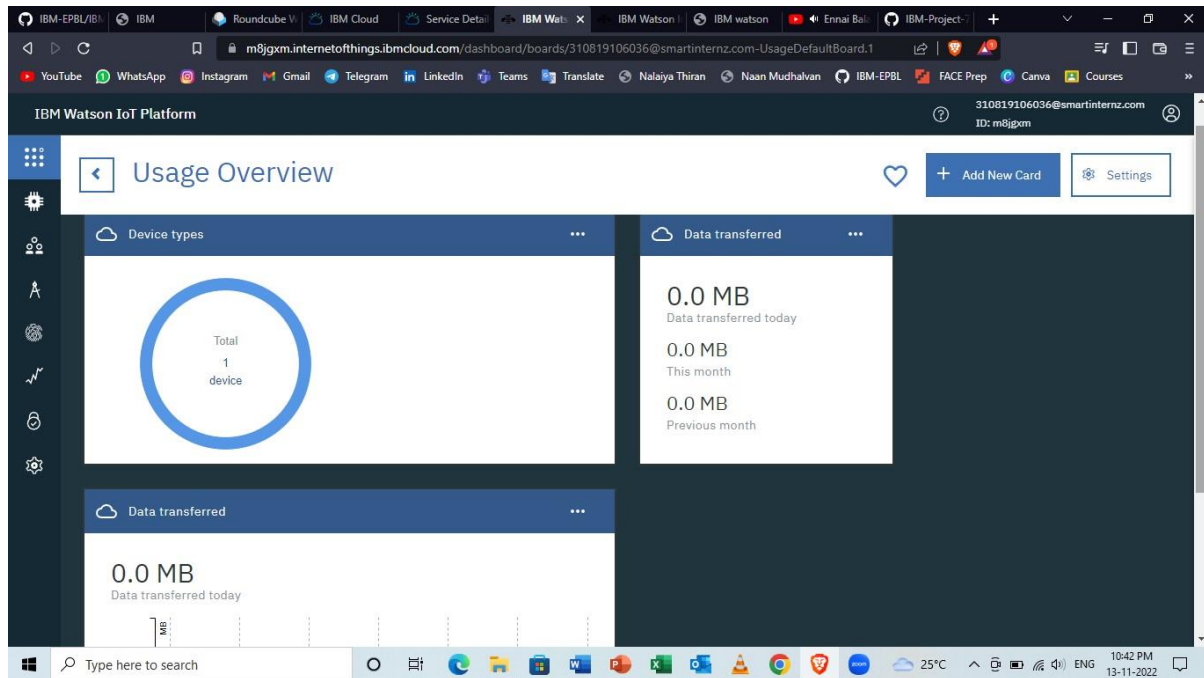
USAGE OVERVIEW

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.