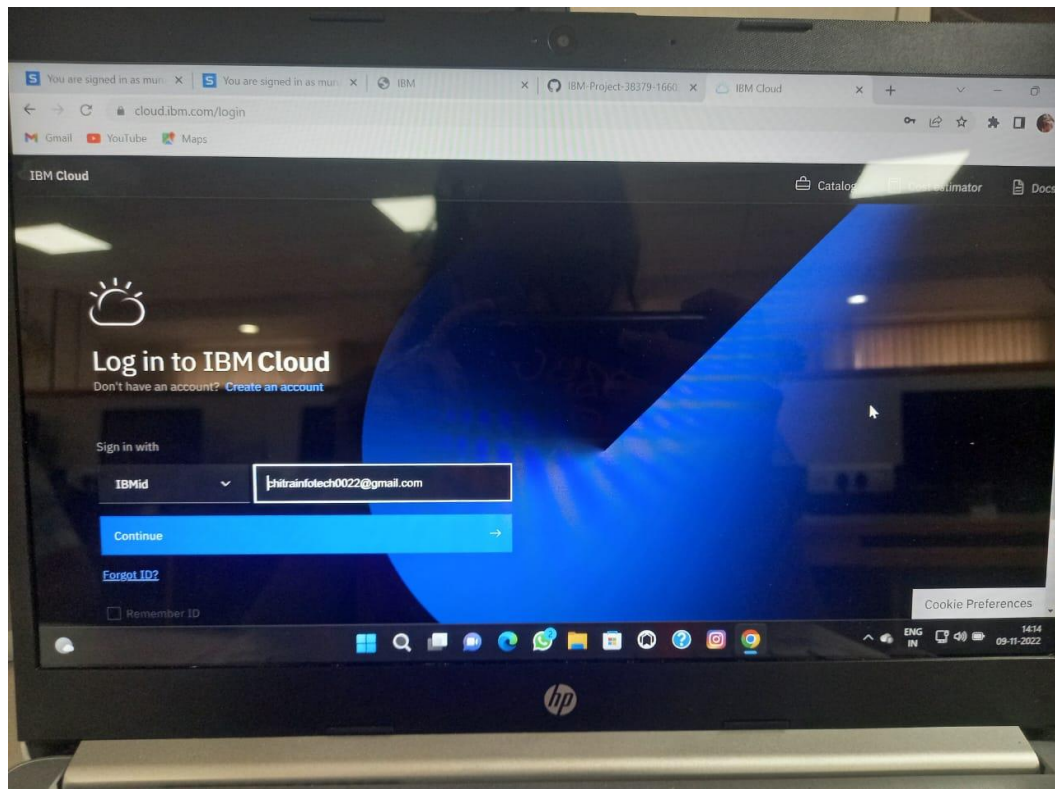


## Create And Configure IBM Cloud Service Create IBM Watson IoT Platform And Device

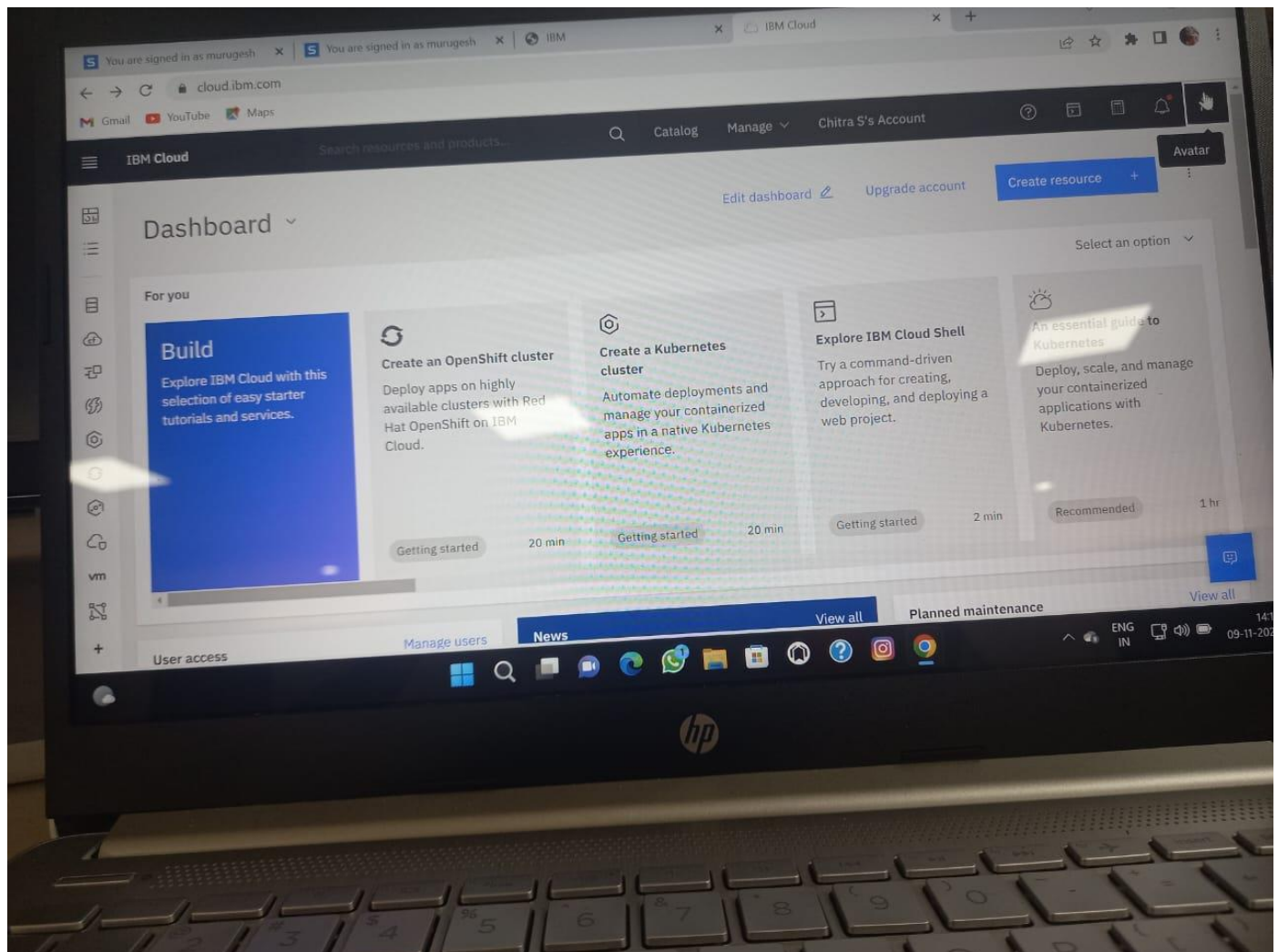
Team ID	PNT2022TMID12141
Project Name	IoT Based Safety Gadget For Child Safety Monitoring & Notification
Maximum Marks	4 Marks

### **STEPS**

1. Firstly create an IBM cloud account with IB Mid and password



## 2. Home page of IBM cloud



## 3. Click on the catalog on the top

Browser tabs: You are signed in as murugesh, IBM, Catalog - IBM Cloud, IBM Watson IoT Platform.

Address bar: cloud.ibm.com/catalog

Navigation bar: IBM Cloud, Search resources and products..., Catalog, Manage, Chitra S's Account

Search bar: Search the catalog...

Categories (left sidebar):

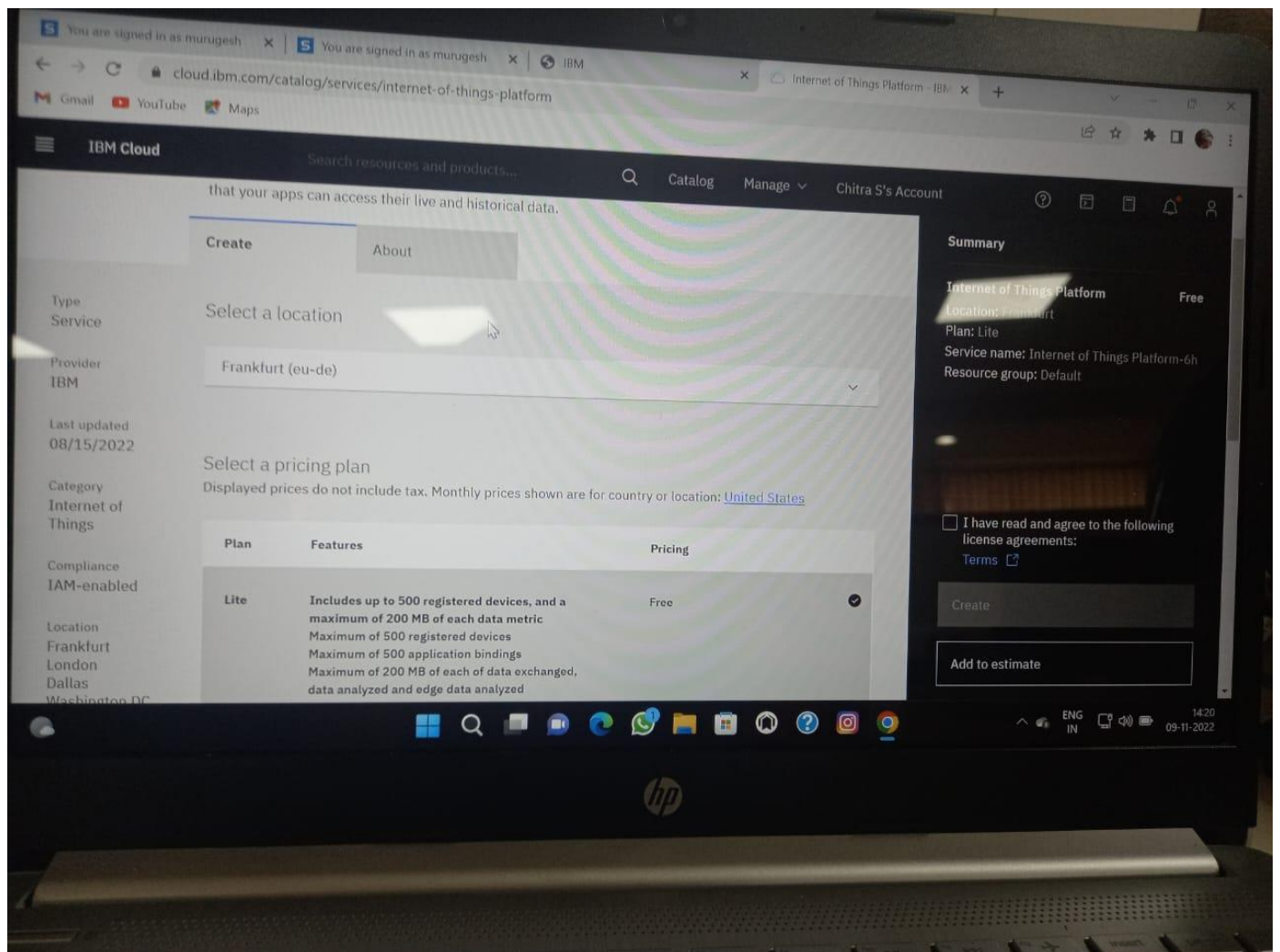
- Networking (30)
- Storage (20)
- AI / Machine Learning (17)
- Analytics (10)
- Blockchain (1)
- Databases (28)
- Developer tools (25)
- Logging and monitoring (3)
- Migration (8)
- Integration (10)
- Internet of Things (1)
- Security (25)
- Mobile (1)

Product Cards:

- Analytics Engine** By IBM  
Submit your Apache Spark applications as needed and customize the Spark runtimes to satisfy the requirements of your...  
Lite • Free • HIPAA Enabled • IAM-enabled • Service Endpoint Supported • IBM supported
- AnonTech ViziVault Platform** By Anon Technology, Inc.  
Manage personal information as-a-service safely, securely, and in compliance with data privacy regulations using ViziVault  
Lite • Free • HIPAA Enabled • IAM-enabled • Third party supported
- API Connect** By IBM  
An enterprise-grade platform for creating, securing, managing, sharing, monetizing, and analyzing custom APIs located on-...  
Lite • Free • EU Supported • IAM-enabled • IBM supported
- App Configuration** By IBM  
Centralized, in-flight configuration for web and mobile applications and distributed environments.  
Lite • Free • IAM-enabled • Service Endpoint Supported • IBM supported
- App Connect** By IBM  
Connect your applications, automate tasks, and improve productivity  
Lite • Free • IBM supported
- App ID** By IBM  
User Authentication and User Profiles for your apps.  
Lite • Free • EU Supported • Financial Services Validated • HIPAA Enabled • IAM-enabled • IBM supported

Footer: Windows taskbar with icons for Start, Search, File Explorer, Microsoft Edge, WhatsApp, Mail, Calendar, Photos, Settings, and various social media apps. System tray shows ENG IN, 14:39, and 09-11-2022.

4. Click on IoT in the category mentioned



5. If already a lite is present delete it else u can't create another

IBM-Project-38379-1660379261/ xDownload file | iLovePDF xInternet of Things Platform - IBM x

cloud.ibm.com/catalog/services/internet-of-things-platform

Gmail YouTube Maps


IBM Cloud

Search resources and products...

Catalog

Manage

Chitra S's Account



Catalog /

Internet of Things Platform

This service is the hub of all things IBM IoT, it is where you can set up and manage your connected devices so that your apps can access their live and historical data.

Create

About

Type  
Service

Provider  
IBM

Last updated  
08/15/2022

Category  
Internet of Things

Select a location

Frankfurt (eu-de)

Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

Plan

Features

Pricing

Create IBM Wats....docx

Create IBM Watso....pdf

Show all

Summary

Internet of Things Platform

Free

Location: Frankfurt

Plan: Lite

Service name: Internet of Things Platform-dg

Resource group: Default

Existing Lite plan instance

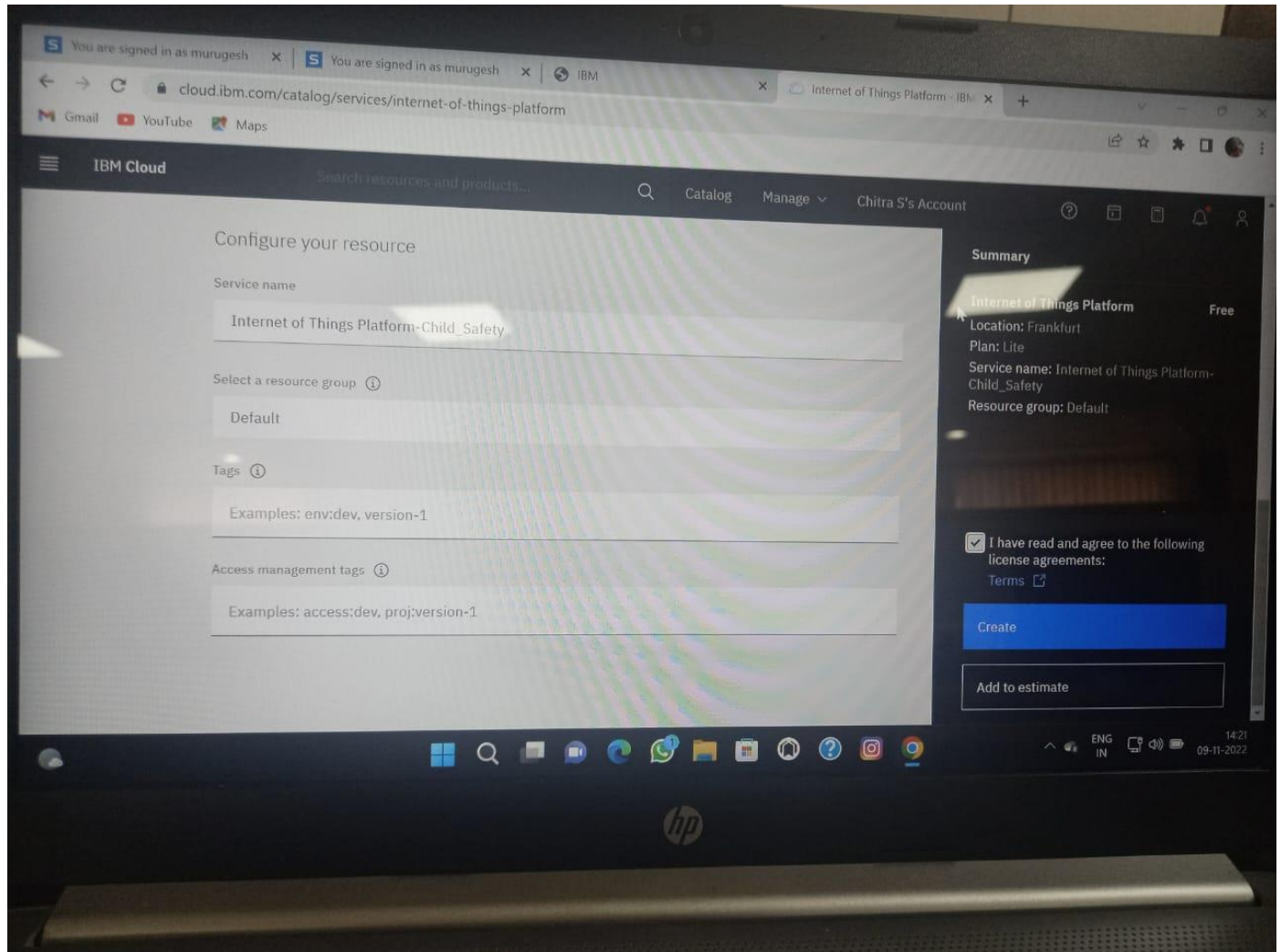
You can have only 1 Lite plan instance of this service per resource group. [Delete](#) your current Lite plan instance in Default resource group to create a new one, or [view the existing instance](#).

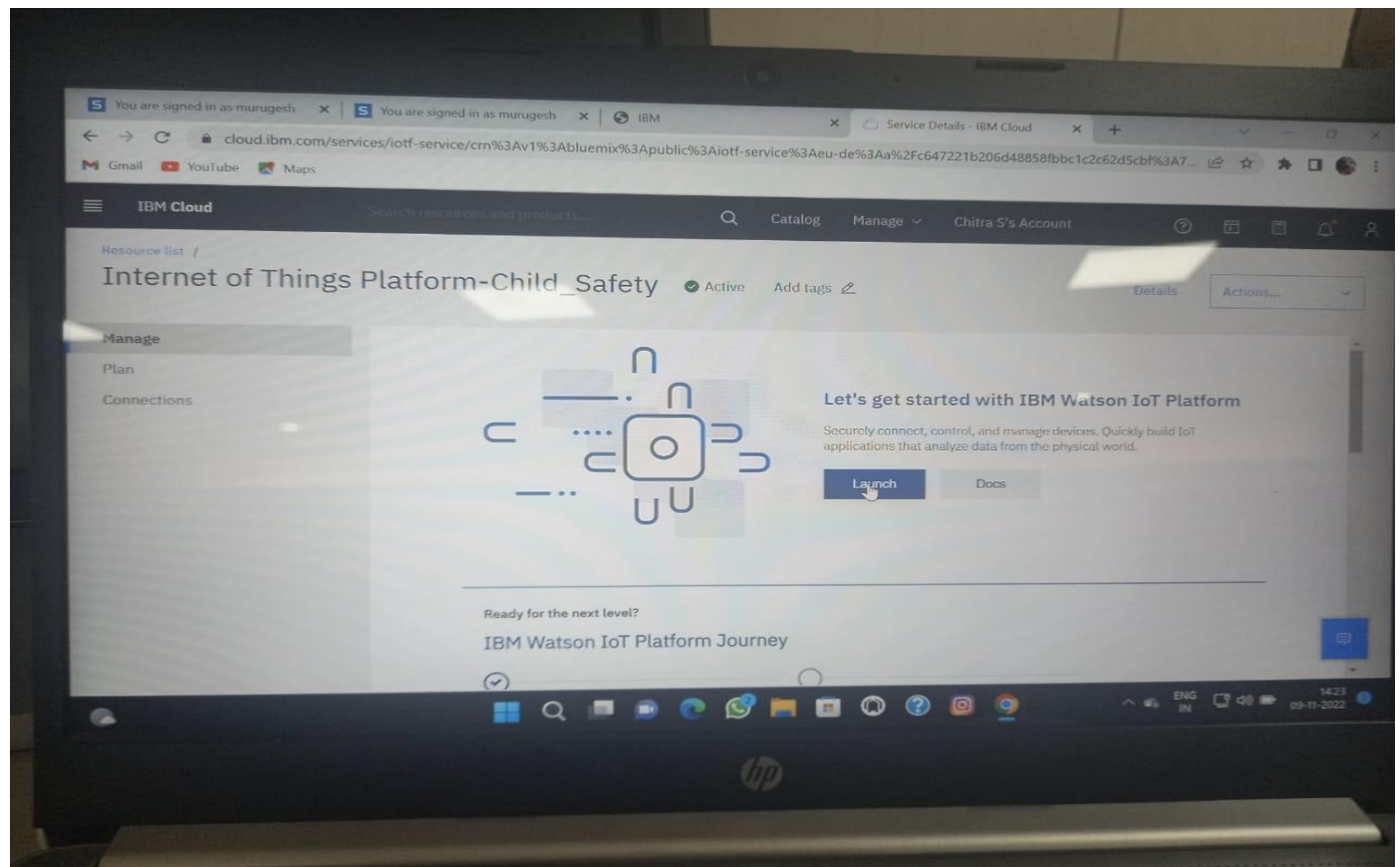
14:43

09-11-2022



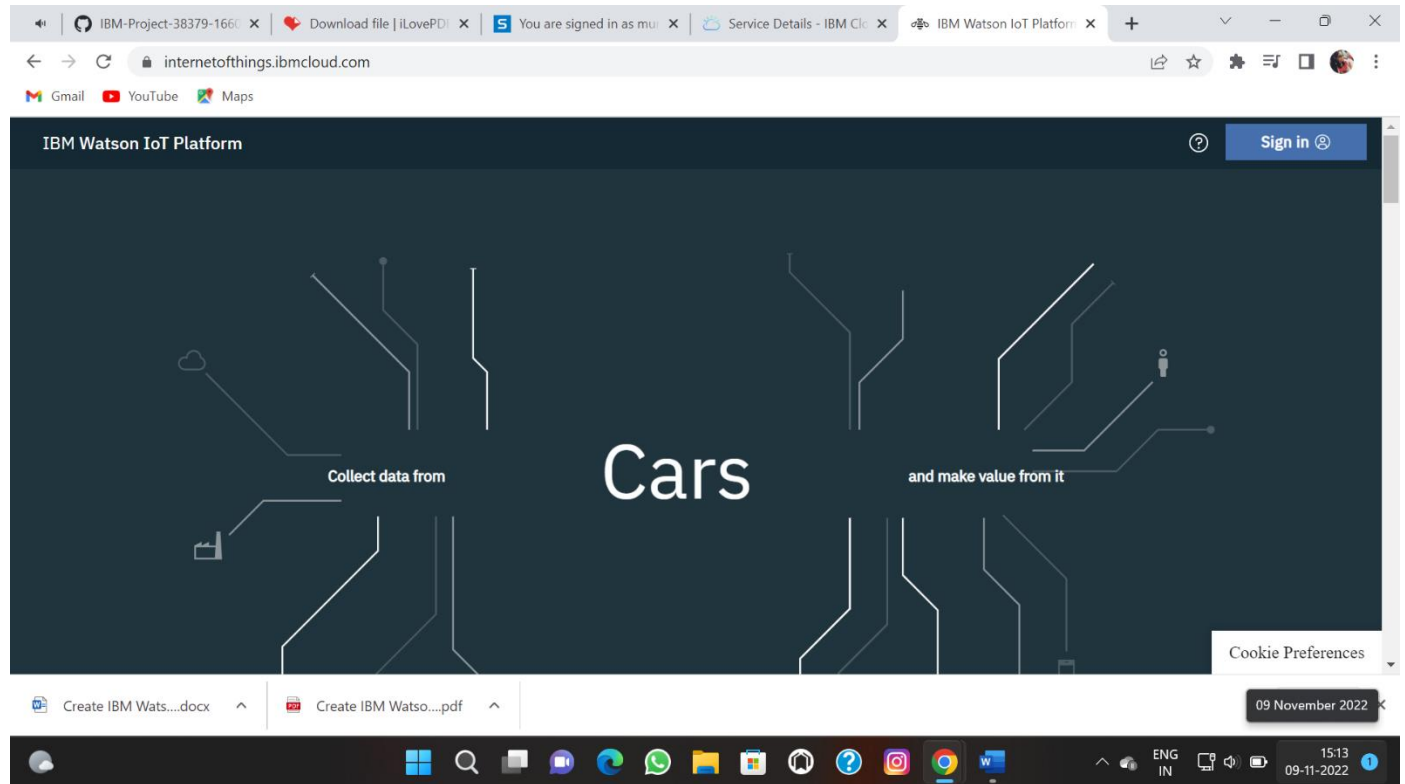
6. Enter the location and in the configure your resource type the service name and choose the plan, tick the agree with it agreements and then click on create



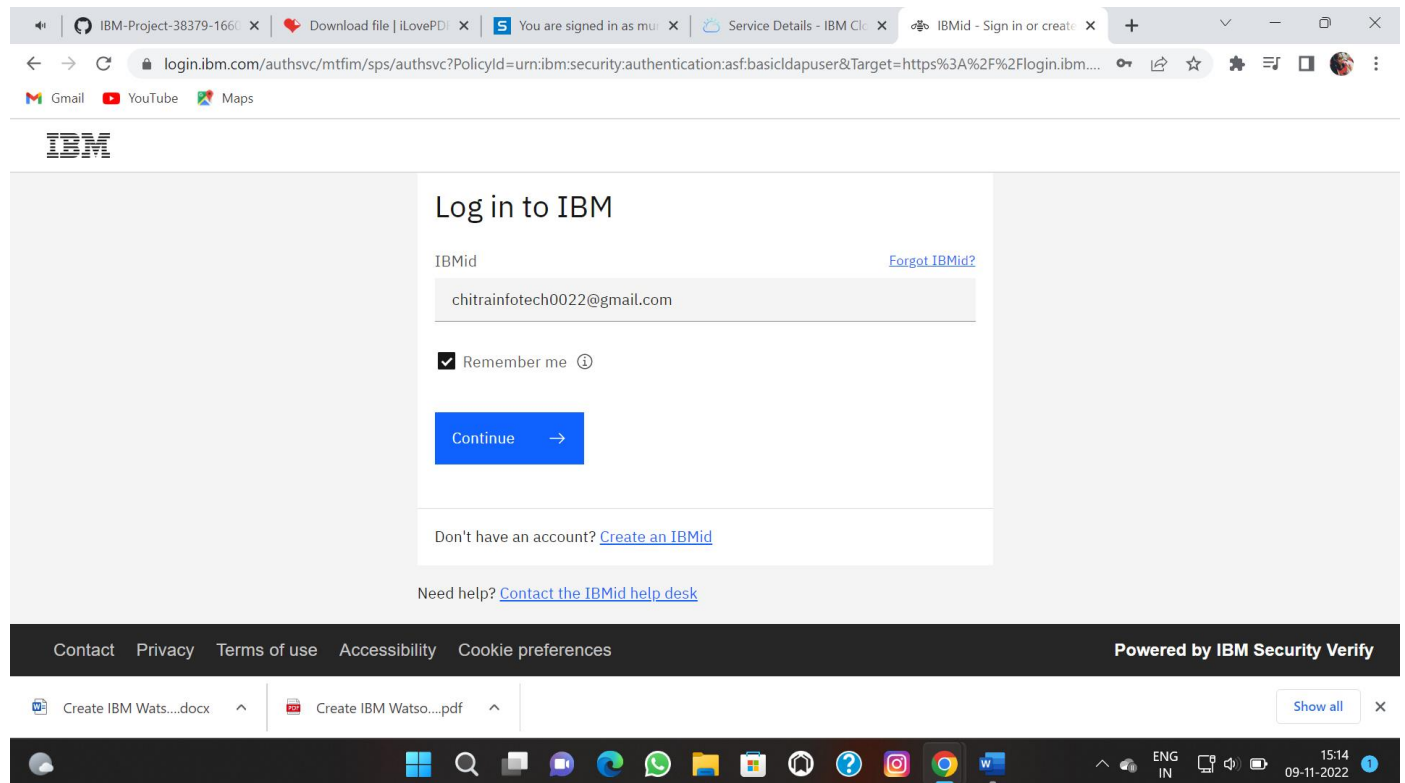


7. Internet of Things Platform Child\_safety will be created, where there are different options like manage, plan, and connection (manage is for launch, Plan gives us the idea about the payment package and its upgrades, and lastly the connection is for to connect IoT with other services)

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

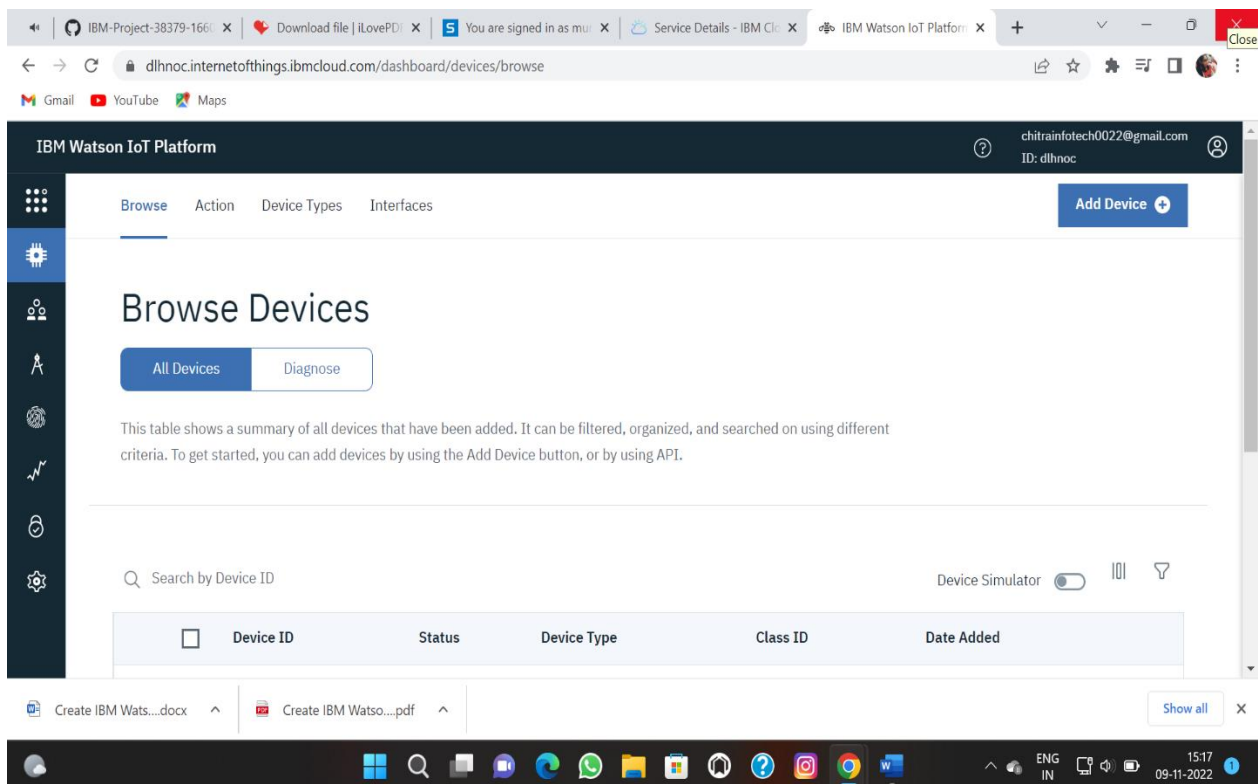
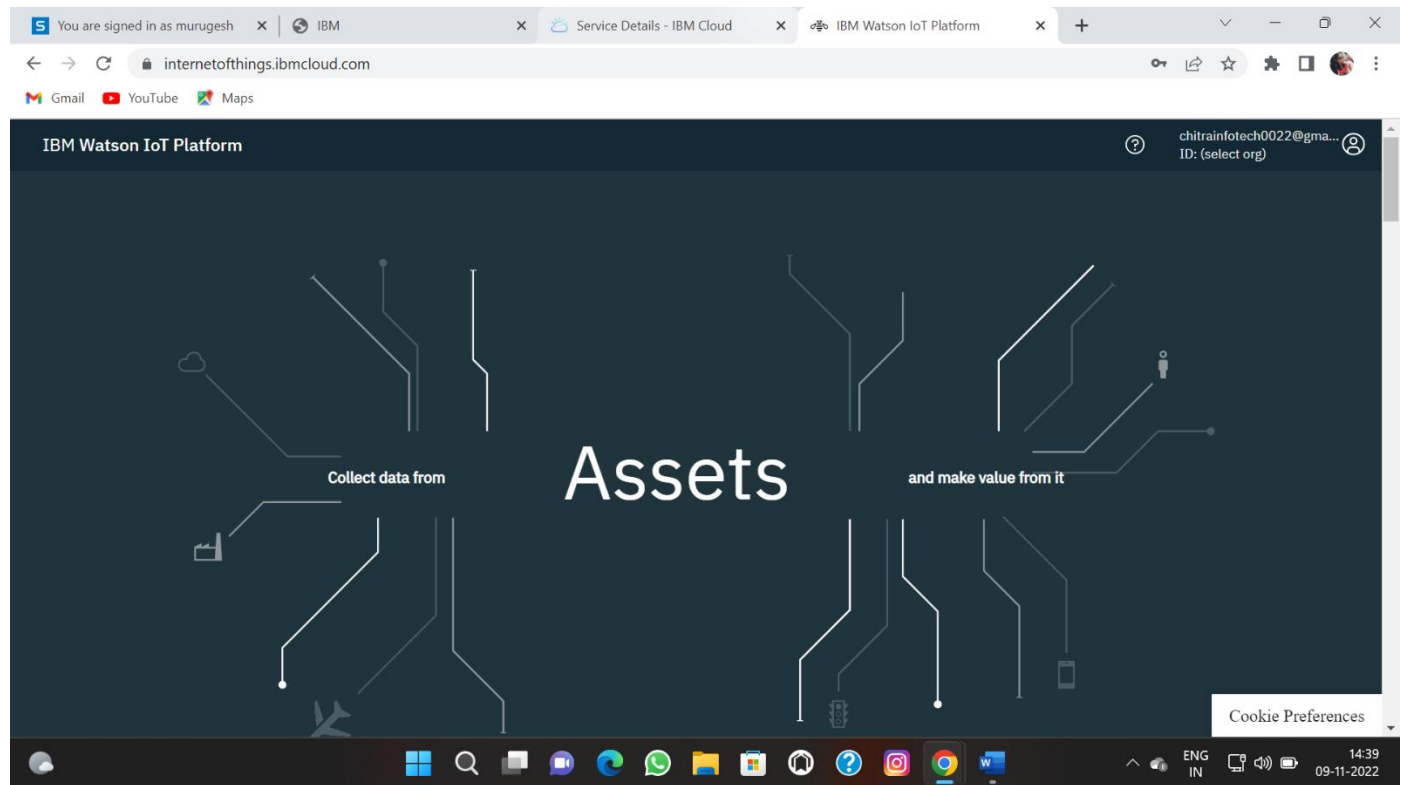


7. Enter the details to sign in to the Watson Cloud to create a device

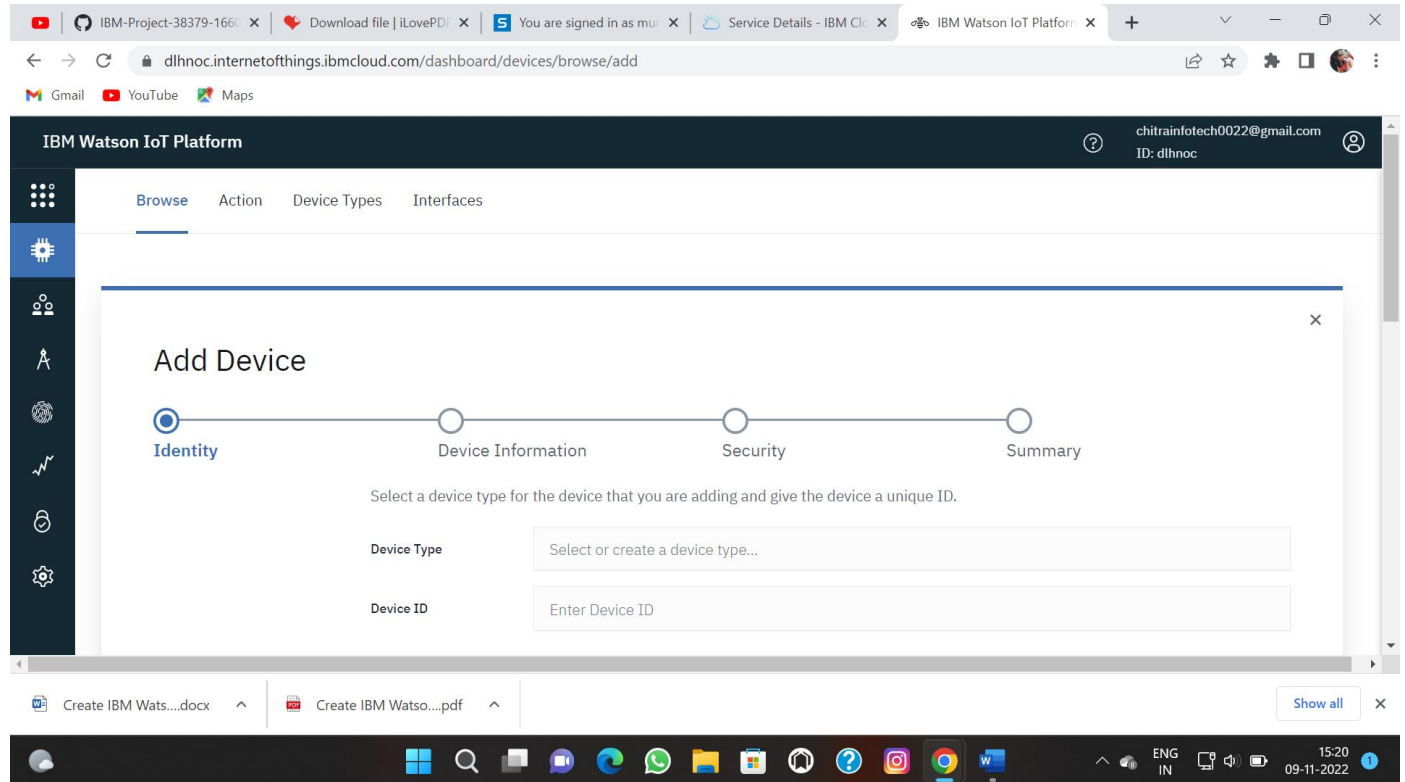




8. Once logged in the name will be displayed and it goes back to the first page



9. 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



IBM Watson IoT Platform

chitrainfotech0022@gmail.com  
ID: dlhnoc

[+ Add Members](#)

## Browse Members

Type the member email to search for

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](#).

<input type="checkbox"/>	Email Address	Name	Role	Added By	Expires	
1 result						
<input type="checkbox"/>	chitrainfotech0022@gmail.c...	chitrainfotech0022...	Administrator	-	-	

Create IBM Wats....docx   Create IBM Watso....pdf   [Show all](#)

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

IBM Watson IoT Platform

chitrainfotech0022@gmail.com  
ID: dlhnoc

[+ Generate API Key](#)

## Browse API Keys

Type the app description to search for

This table shows a summary of the API keys that have been added for the organization. It can be filtered, organized, and search on using different criteria. To get started, you can add API keys by clicking Generate API Key, or by using the API. For more information about adding API keys, see [API key connection](#).

<input type="checkbox"/>	Key	Description	Role	Expires	
0 results					

Create IBM Wats....docx   Create IBM Watso....pdf   [Show all](#)

9.

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

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

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

IBM Watson IoT Platform

411419104022@newprincehnbhavan.com  
ID: 26vmt

Browse Action Device Types Interfaces

## Add Device

Identity Device Information Security Summary

You can modify the default device information and enter more information about the device for identification purposes.

Serial Number	<input type="text" value="Enter Serial Number"/>	Manufacturer	<input type="text" value="Enter Manufacturer"/>
Model	<input type="text" value="Enter Model"/>	Device Class	<input type="text" value="Enter Device Class"/>
Description	<input type="text" value="Enter Description"/>	Firmware Version	<input type="text" value="Enter Firmware Version"/>
Hardware Version	<input type="text" value="Enter Hardware Version"/>	Descriptive Location	<input type="text" value="Enter Descriptive Location"/>

12. Clicking next it goes to the security where we do authentication token id.

The screenshot shows the IBM Watson IoT Platform interface. The browser address bar displays the URL: `dlhnoc.internetofthings.ibmcloud.com/dashboard/devices/drilldown/Android:221310?returnTo=/devices/browse`. The page title is "Device Drilldown - 221310". On the left, a sidebar menu lists: Device Credentials, Connection Information, Recent Events, State, Device Information (selected), and Metadata. The main content area, titled "Device Information", includes a description: "View basic device information including location and manufacturer." and an "Edit Device Information" button. Below this, a table displays the following details:

Serial Number	12345678	Manufacturer	Reliance Digital
Model	Child Safety	Device Class	7
Description	Monitoring	Firmware Version	1.2
Hardware Version	1.5	Descriptive Location	Coimbatore

At the bottom of the page, there are two tabs: "Create IBM Wats...docx" and "Create IBM Wato...pdf". The Windows taskbar at the very bottom shows the time as 15:42 on 09-11-2022.

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

This screenshot shows the same "Device Drilldown - 221310" page, but with the "Device Credentials" option selected in the sidebar. The main content area displays the following information:

Organization ID	dlhnoc
Device Type	Android
Device ID	221310
Authentication Method	use-token-auth
Authentication Token	vHbEFA3UT3P(mJoAre

Below the table, a warning message states: "Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token." The Windows taskbar at the bottom shows the time as 15:41 on 09-11-2022.

The device credentials will be displayed with all the details. Safe the details of the device as the authentication tokens are non-recoverable and if misplaced then we have to create a new one.



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

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes the IBM logo, user information (chitrainfotech0022@gmail.com, ID: dlhnoc), and a search icon. The main header has tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains icons for various functions. The main content area displays a table of devices. The table has columns for 'Device ID', 'Status', 'Device Type', 'Class ID', and 'Date Added'. A single device is listed with ID 221310, status 'Disconnected', type 'Android', and class 'Device'. The table is filtered by 'Device ID' and shows 1 of 1 item. A 'Device Simulator' toggle is visible on the right. The bottom of the screen shows a Windows taskbar with various application icons and a system clock indicating 15:44 on 09-11-2022.

Device ID	Status	Device Type	Class ID	Date Added
221310	Disconnected	Android	Device	9 Nov 2022 15:41

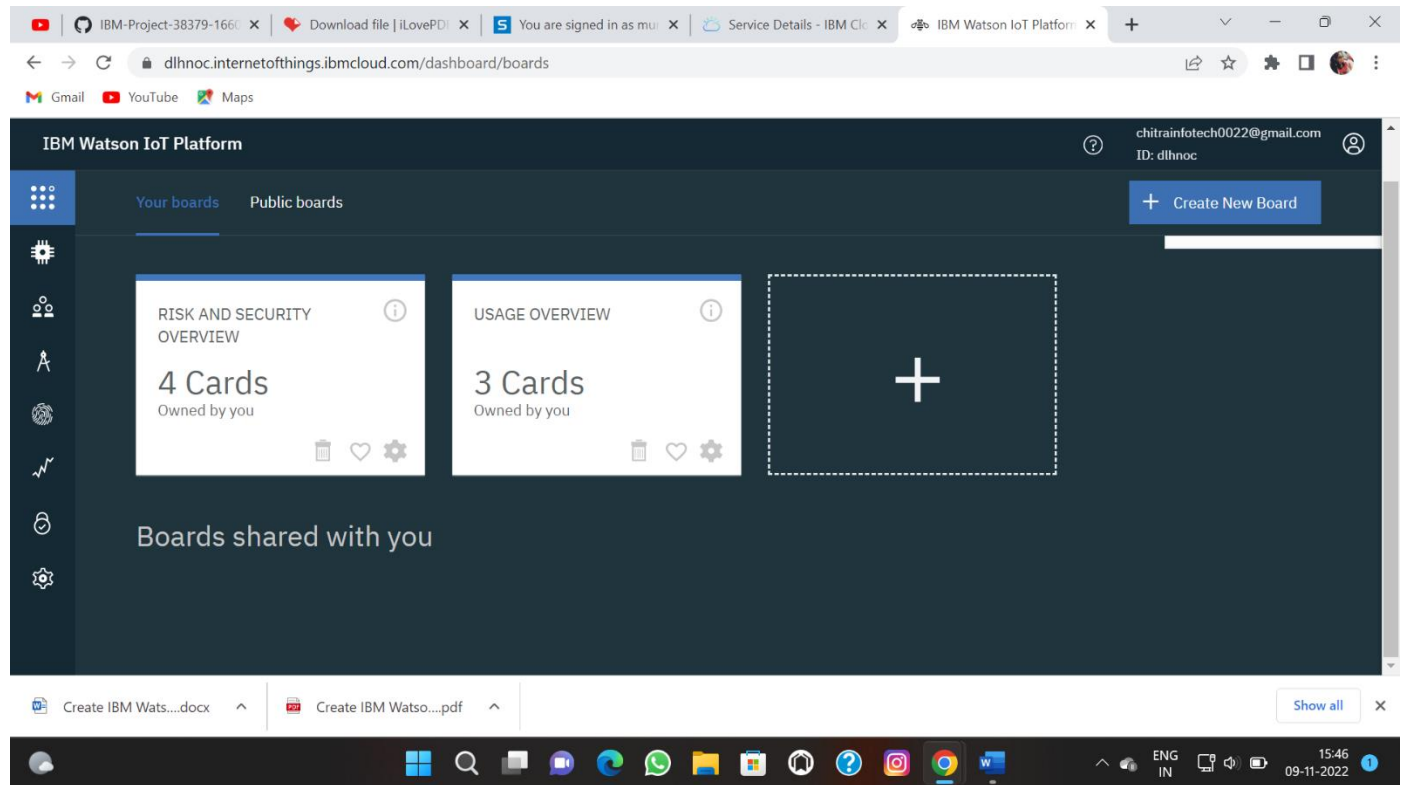
It has different tabs like Identity, Device Information, State and login.

This screenshot shows the 'Device Information' tab for the device with ID 221310. The tab is selected, and the details are displayed in a table. The details include the Device ID, Device Type, Date Added, Added By, and Connection Status. The table is filtered by 'Device ID' and shows 1 of 1 item. The bottom of the screen shows a Windows taskbar with various application icons and a system clock indicating 15:45 on 09-11-2022.

Identity	Device Information	Recent Events	State	Logs
Device ID	221310			
Device Type	Android			
Date Added	9 Nov 2022 15:41			
Added By	chitrainfotech0022@gmail.com			
Connection Status	Disconnected			

In a similar way, we can create n number of devices with a 50 per page limit as per the requirement of our project.

20..The Boards will display card for the project.



## **RESULT:**

An IBM Watson cloud for IoT and a device is created

