

CREATE IBM WATSON IOT PLATFORM AND DEVICE

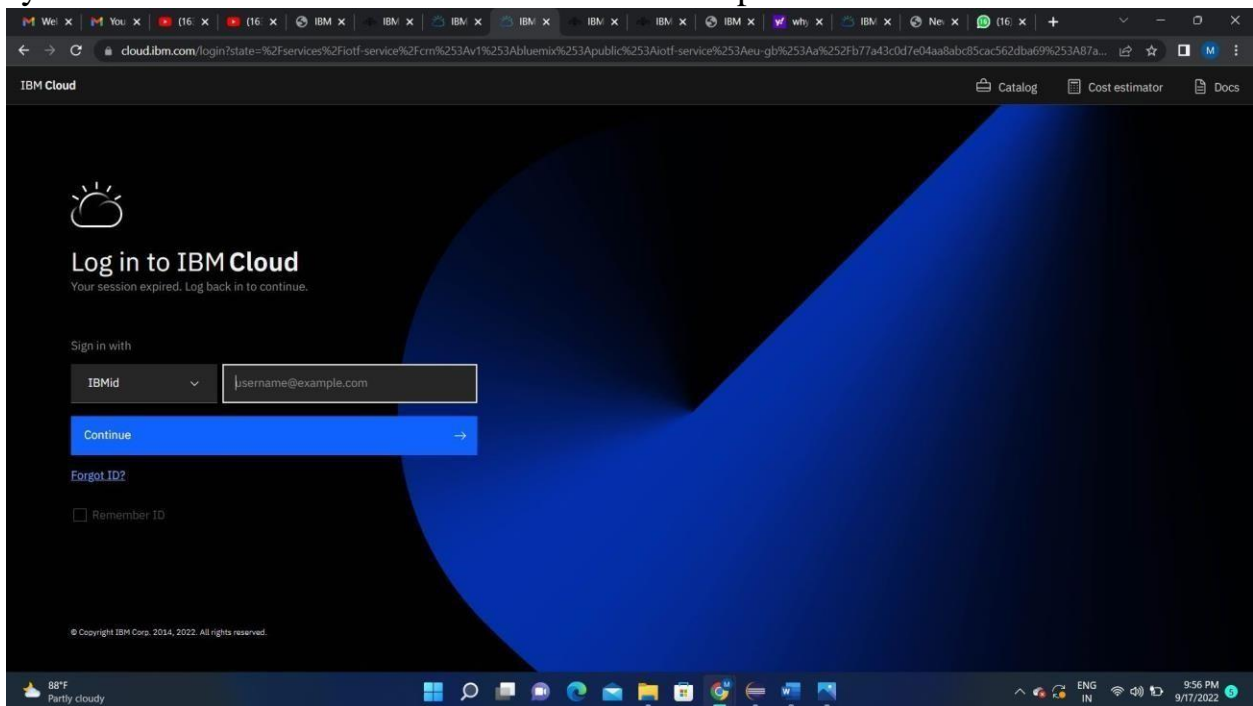
DATE	08 NOVEMBER 2022
TEAM ID	PNT2022TMID49507
Project Name	Project-IOT based safety gadget for child safety monitoring and notification

AIM:

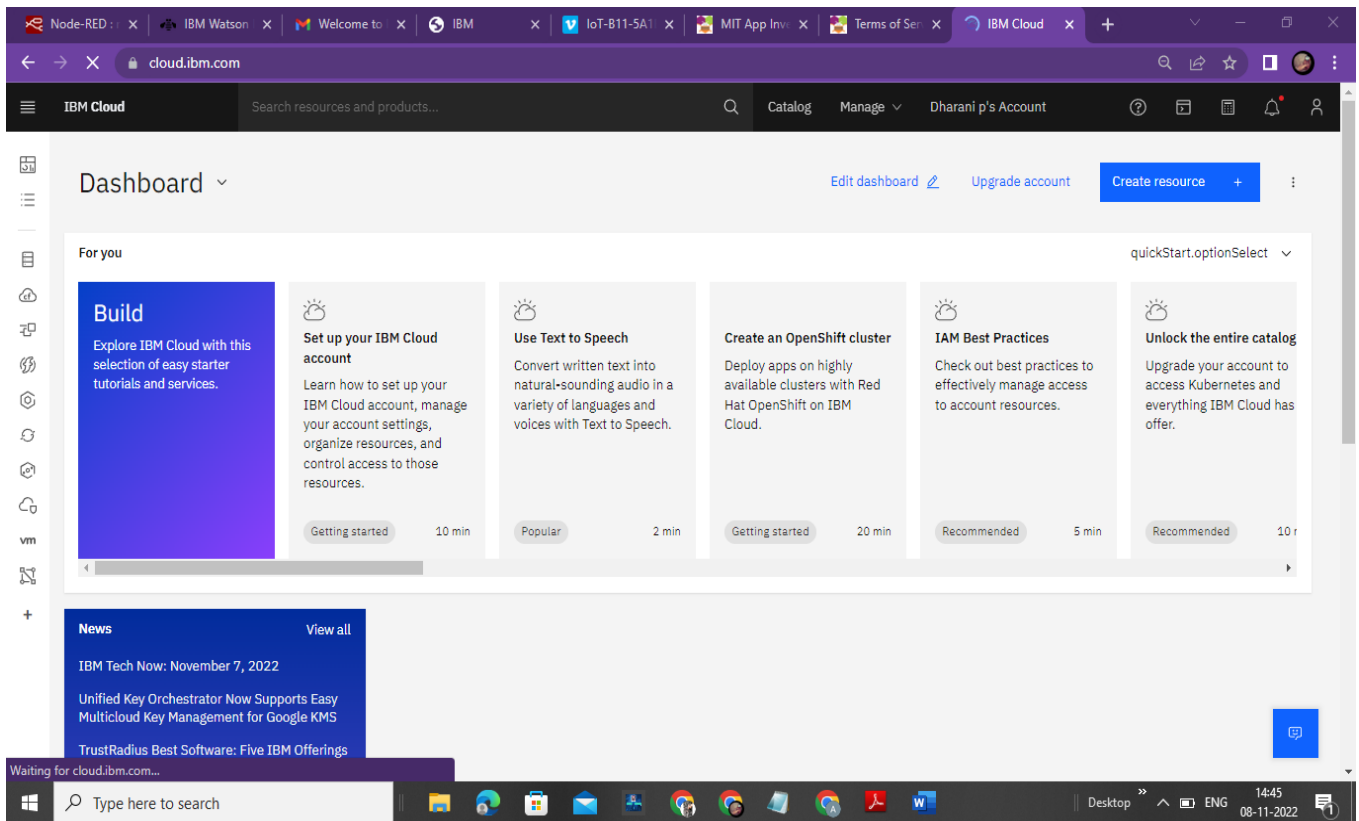
To create the IBM Watson IoT platform and device

STEPS

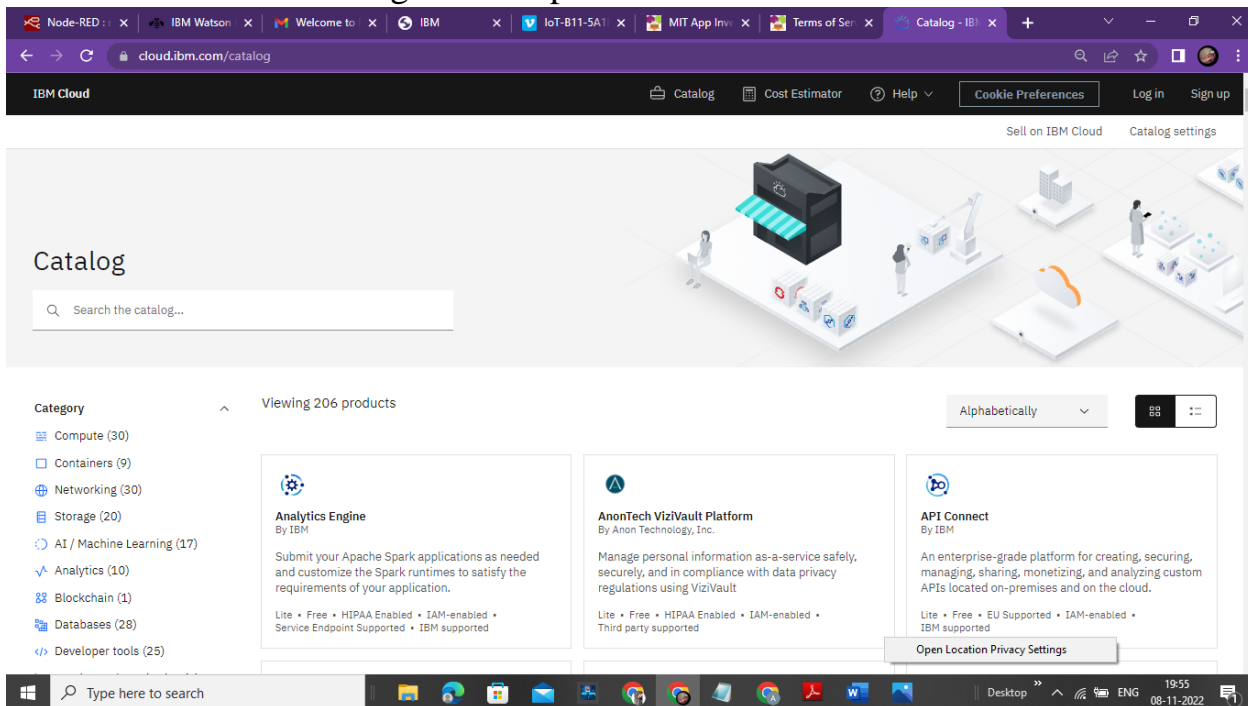
- Firstly create an IBM cloud account with IBMid and password



- Home page of IBM cloud



- Click on the catalog on the top



Click on IoT in the category mentioned

The screenshot shows the IBM Cloud 'Internet of Things Platform' page. The 'Create' tab is active, displaying a 'Select a location' dropdown menu with options: Dallas (us-south), Frankfurt, London, Dallas, and Washington DC. Below this is a 'Select a pricing plan' section with a table of plans. The 'Lite' plan is selected, showing features like up to 500 registered devices and 200 MB of data metric, and a price of 'Free'. A warning message on the right states: '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.' The 'Create' button is visible at the bottom right.

Plan	Features	Pricing
Lite	Includes up to 500 registered devices, and a maximum of 200 MB of each data metric Maximum of 500 registered devices Maximum of 500 application bindings Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed	Free

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

The screenshot shows the 'Configure your resource' section of the IBM Cloud 'Internet of Things Platform' page. The 'Lite' plan is still selected. The 'Configure your resource' section includes fields for 'Service name' (Internet of Things Platform-bb), 'Select a resource group' (Default), 'Tags' (Examples: env:dev, version-1), and 'Access management tags' (Examples: access:dev, proj:version-1). A warning message on the right states: '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.' The 'Create' button is visible at the bottom right.

Plan	Features	Pricing
Lite	Includes up to 500 registered devices, and a maximum of 200 MB of each data metric Maximum of 500 registered devices Maximum of 500 application bindings Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed	Free

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

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

Updated on: 08/15/2022

Category: Internet of Things

Compliance: IAM-enabled

Location: Frankfurt, London, Dallas, Washington DC

Related links: Docs, Terms

Select a location

Dallas (us-south)

Select a pricing plan

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

Plan	Features	Pricing
Lite	Includes up to 500 registered devices, and a maximum of 200 MB of each data metric Maximum of 500 registered devices Maximum of 500 application bindings Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed	Free

The Lite service plan for Internet of Things Platform includes up to 500 registered devices, and a maximum of 200 MB each of data exchanged, data analyzed, and edge data analyzed per month.

Summary

Internet of Things Platform **Free**

Location: Dallas
Plan: Lite
Service name: Internet of Things Platform-2w
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](#).

☐ I have read and agree to the following license agreements: [Terms](#)

Create

Add to estimate

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

Updated on: 08/15/2022

Category: Internet of Things

Compliance: IAM-enabled

Location: Frankfurt, London, Dallas, Washington DC

Related links: Docs, Terms

Select a location

Dallas (us-south)

Select a pricing plan

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

Plan	Features	Pricing
Lite	Includes up to 500 registered devices, and a maximum of 200 MB of each data metric Maximum of 500 registered devices Maximum of 500 application bindings Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed	Free

The Lite service plan for Internet of Things Platform includes up to 500 registered devices, and a maximum of 200 MB each of data exchanged, data analyzed, and edge data analyzed per month.

Lite plan services are deleted after 30 days of inactivity.

Configure your resource

Service name: Internet of Things Platform-child_safety

Select a resource group: Default

Tags: Examples: env:dev, version-1

Access management tags: Examples: access:dev, proj:version-1

Summary

Internet of Things Platform **Free**

Location: London
Plan: Lite
Service name: Internet of Things Platform-child_safety
Resource group: Default

☒ I have read and agree to the following license agreements: [Terms](#)

Create

Add to estimate

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)

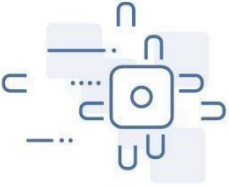
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cloud.ibm.com/services/iotf-service/cm%3Av1%3Abluemix%3Apublic%3Aiotf-service%3Aeu-gb%3Aa%2Fb77a43cd7e04aa8abc85cac562dba69%3A87a72bdb-1bf7-44a2-b735-4cd2b61b240...

IBM CloudSearch resources and products...CatalogDocsSupportManageMeow Man's Account

Resource list /Internet of Things Platform-child_safetyActiveAdd tagsDetailsActions...

ManagePlanConnections



Let's get started with IBM Watson IoT Platform

Securely connect, control, and manage devices. Quickly build IoT applications that analyze data from the physical world.

LaunchDocs

Ready for the next level?

IBM Watson IoT Platform Journey

✓

Lite

The Lite service plan provides a lightweight development environment to get you started with the connectivity capabilities of Watson IoT Platform.

Free

○

Non-Production

The Non-Production service plan is a full-featured, fully-integrated offering that enables you to explore Watson IoT Platform to see how the service can fit into your IoT environment.

Starts at \$500 per month

○

Production

The Production service is a fully managed SaaS offering that enables you to manage and analyze enterprise IoT data.

Includes IBM Service & Support

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cloud.ibm.com/services/iotf-service/cm%3Av1%3Abluemix%3Apublic%3Aiotf-service%3Aeu-gb%3Aa%2Fb77a43cd7e04aa8abc85cac562dba69%3A87a72bdb-1bf7-44a2-b735-4cd2b61b240...

IBM CloudSearch resources and products...CatalogDocsSupportManageMeow Man's Account

Resource list /Internet of Things Platform-child_safetyActiveAdd tagsDetailsActions...

ManagePlanConnections

Current plan

Lite

Features

- Includes up to 500 registered devices, and a maximum of 200 MB of each data metric
- Maximum of 500 registered devices
- Maximum of 500 application bindings
- Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed

Current usage

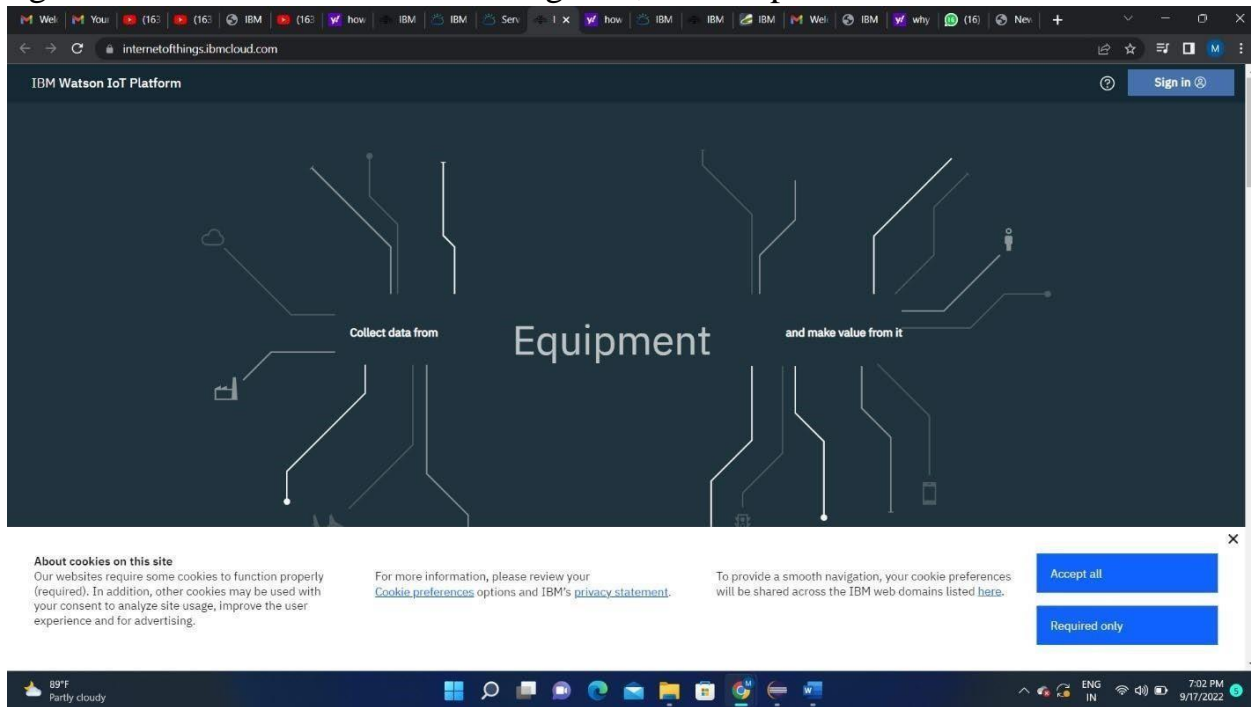
N/A

Lite plan services are deleted after 30 days of inactivity.

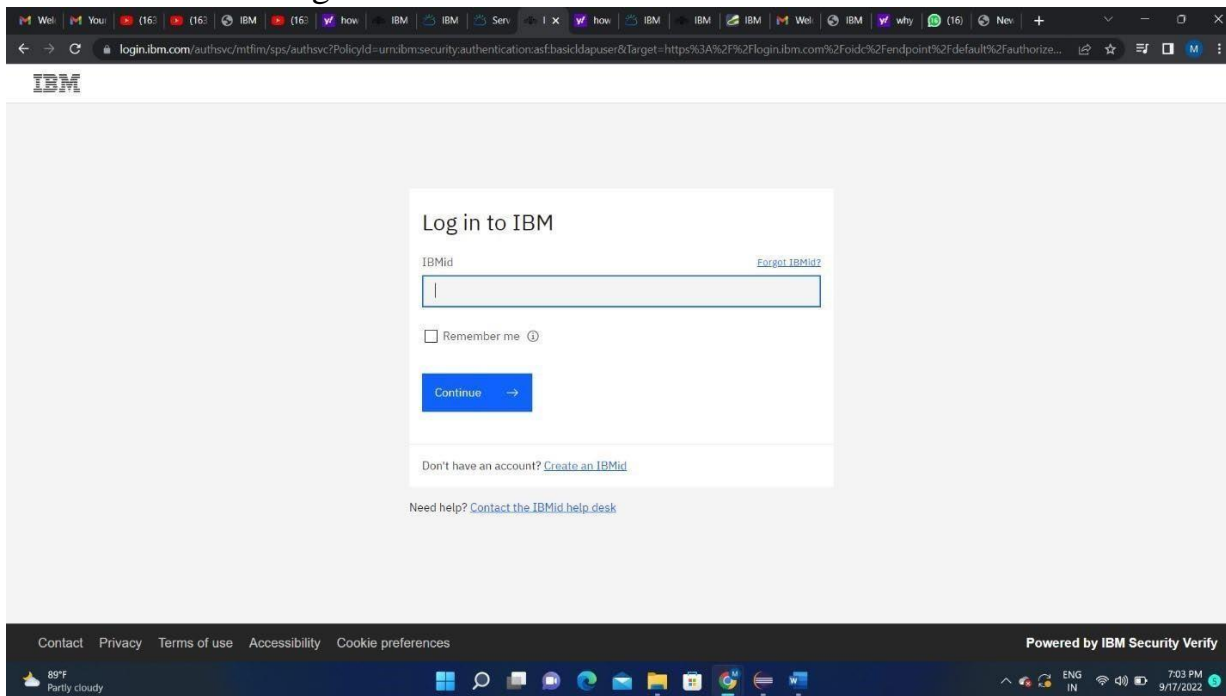
Change pricing plan

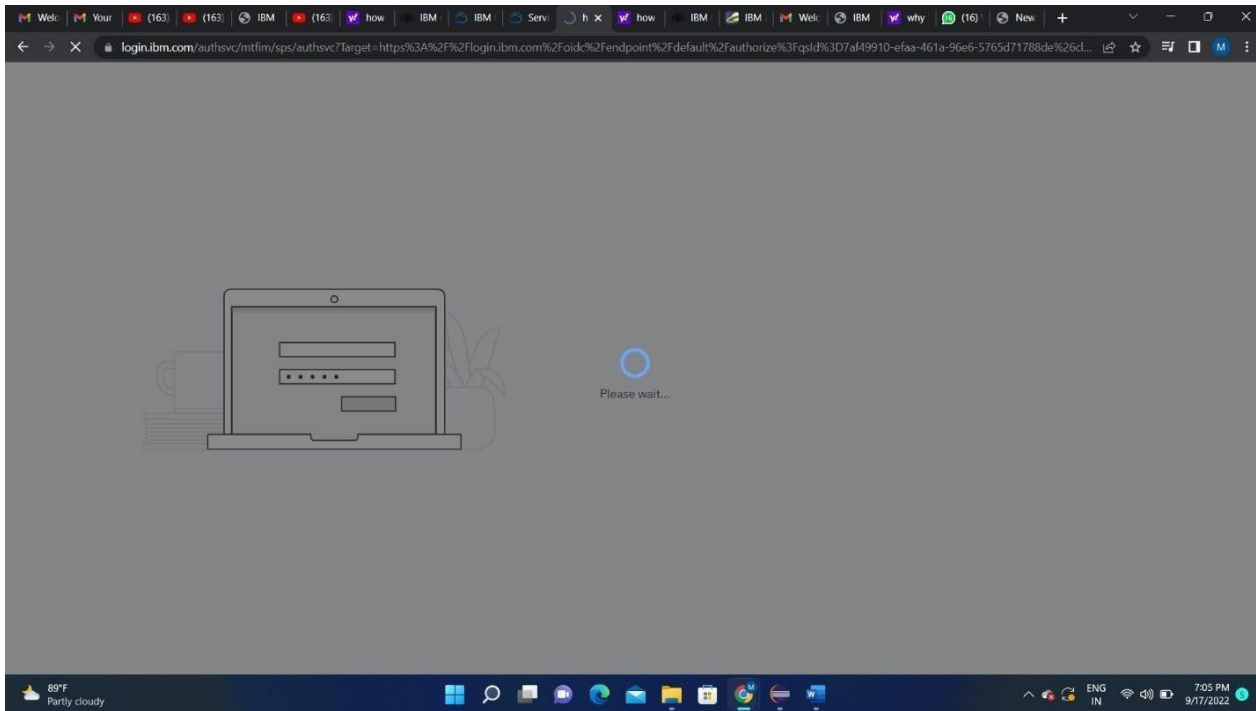
Plan	Features	Pricing
Lite	Includes up to 500 registered devices, and a maximum of 200 MB of each data metric Maximum of 500 registered devices Maximum of 500 application bindings Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed	Free

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



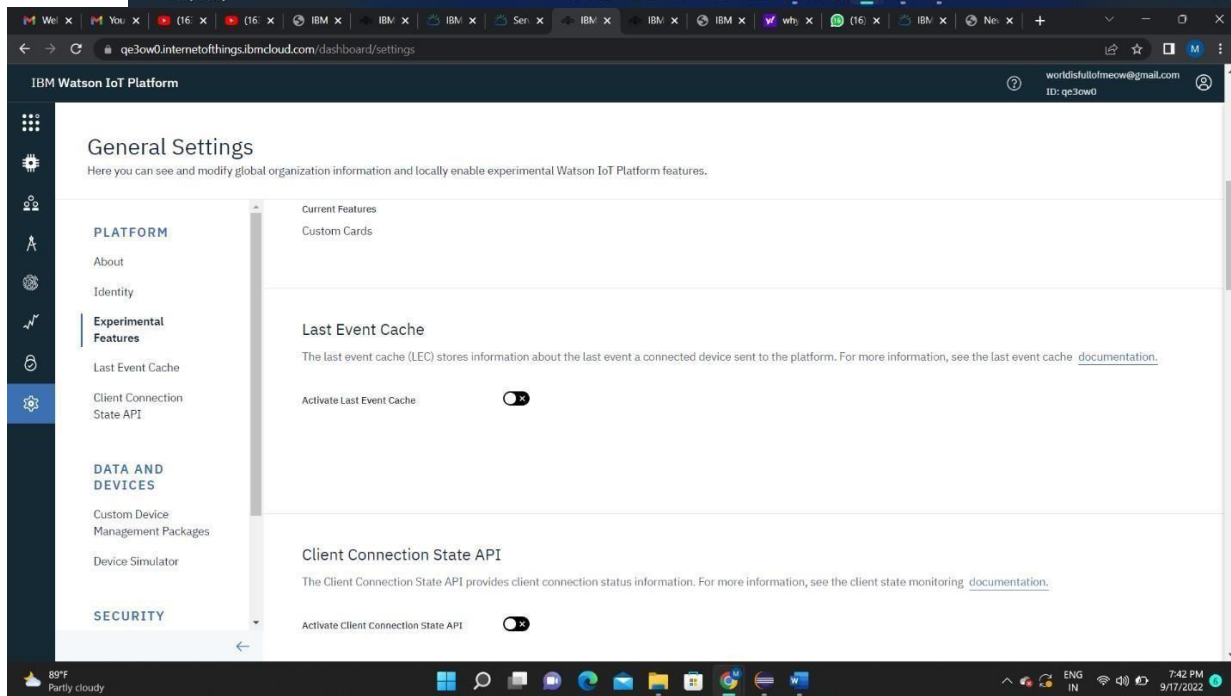
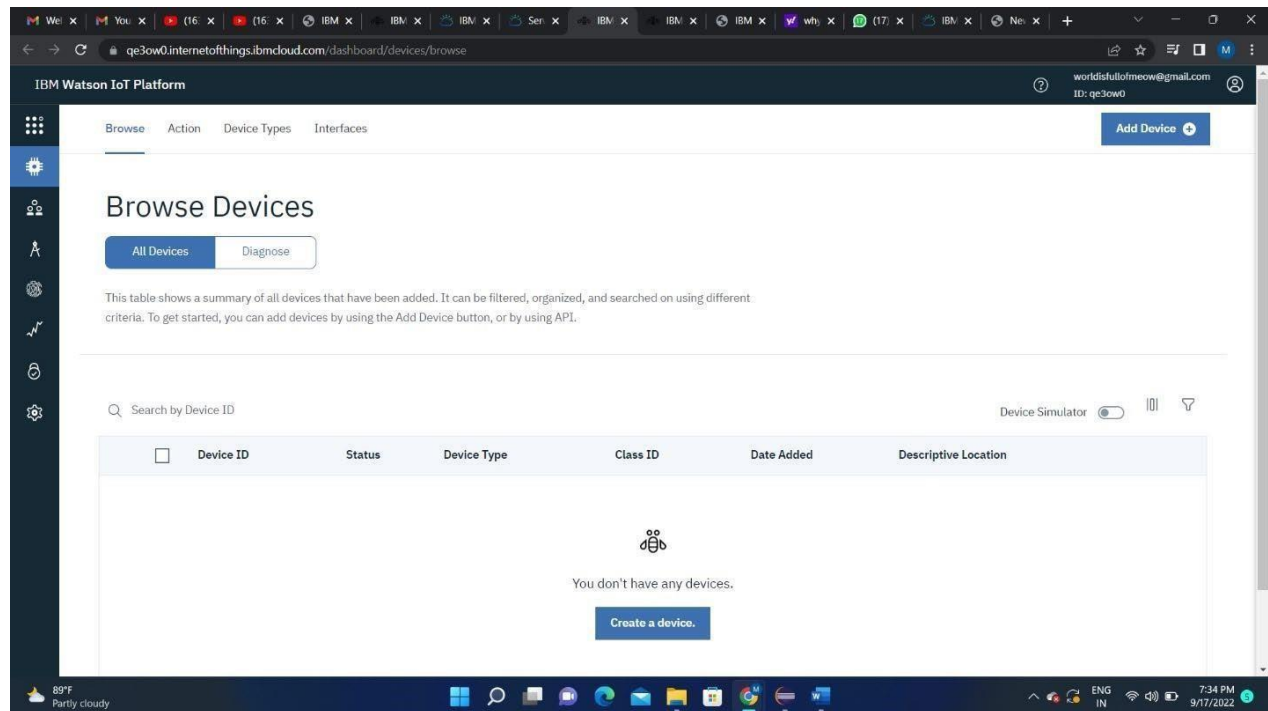
Enter the details to sign in to the Watson Cloud to create a device



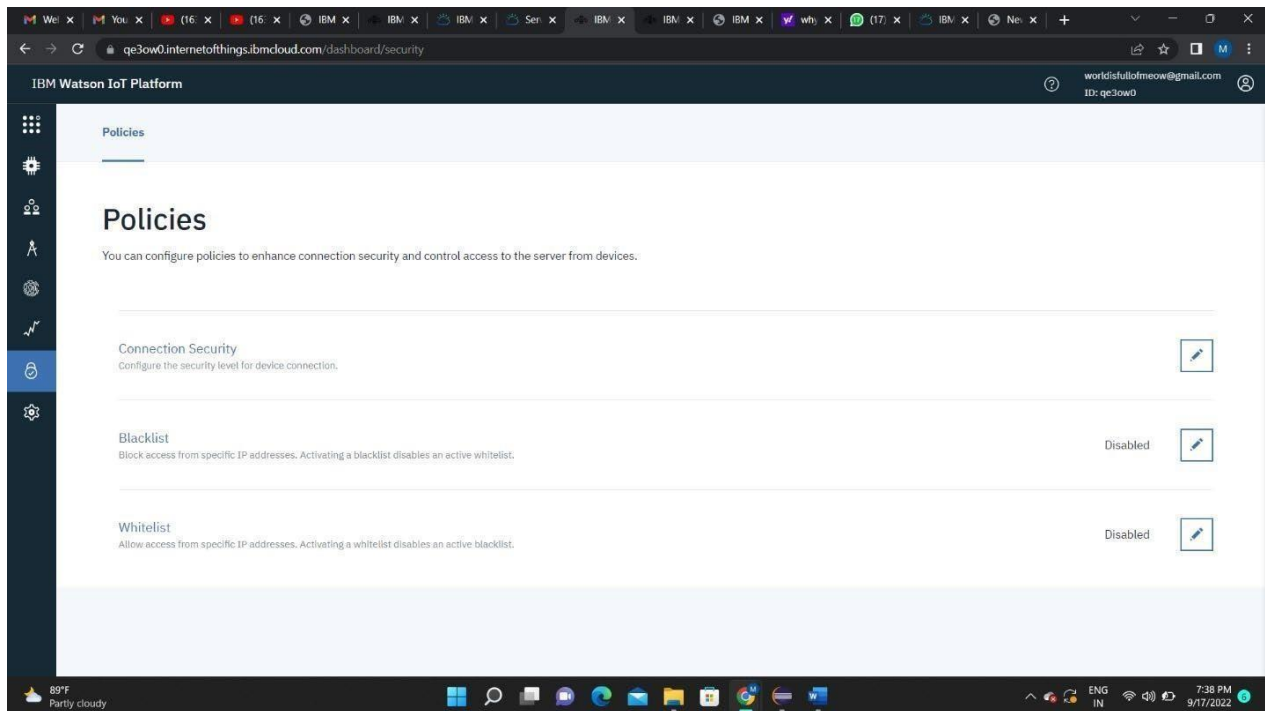


Once logged in the name will be displayed and it goes back to the first page

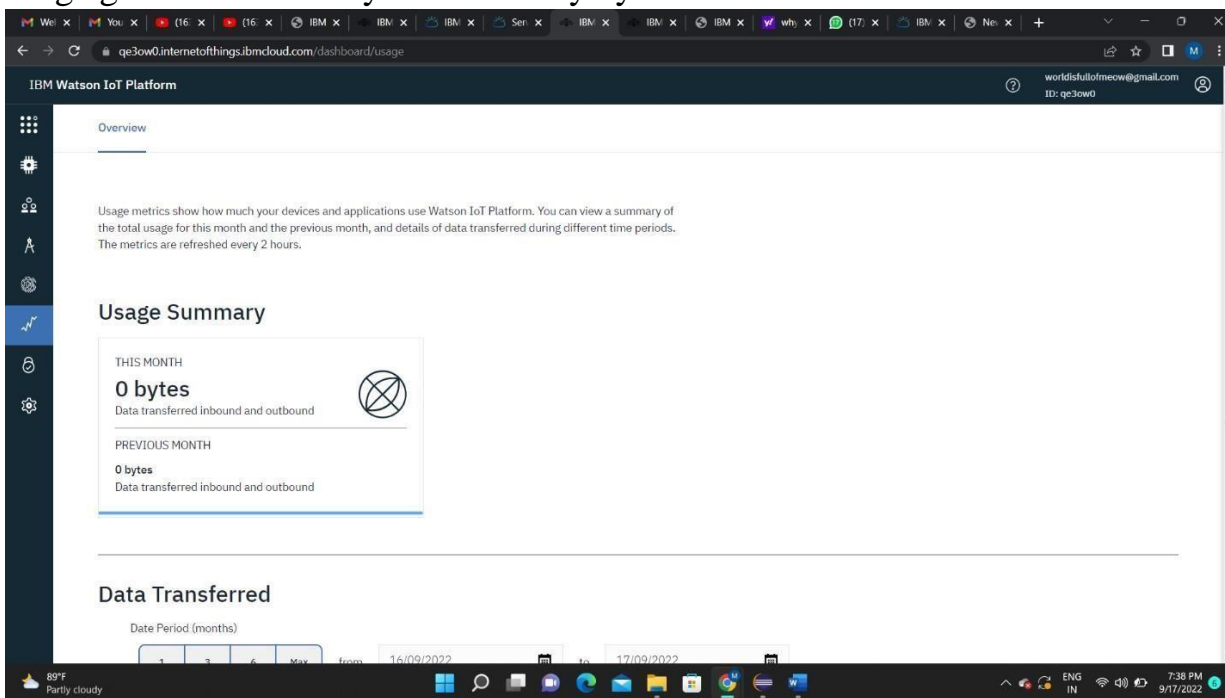
And again clicking on the launch button will open this tab, the device will help in the creation of the devices, the addition of devices, and the display of details of the devices.
The setting tab is used to change the general setting if needed for the project.



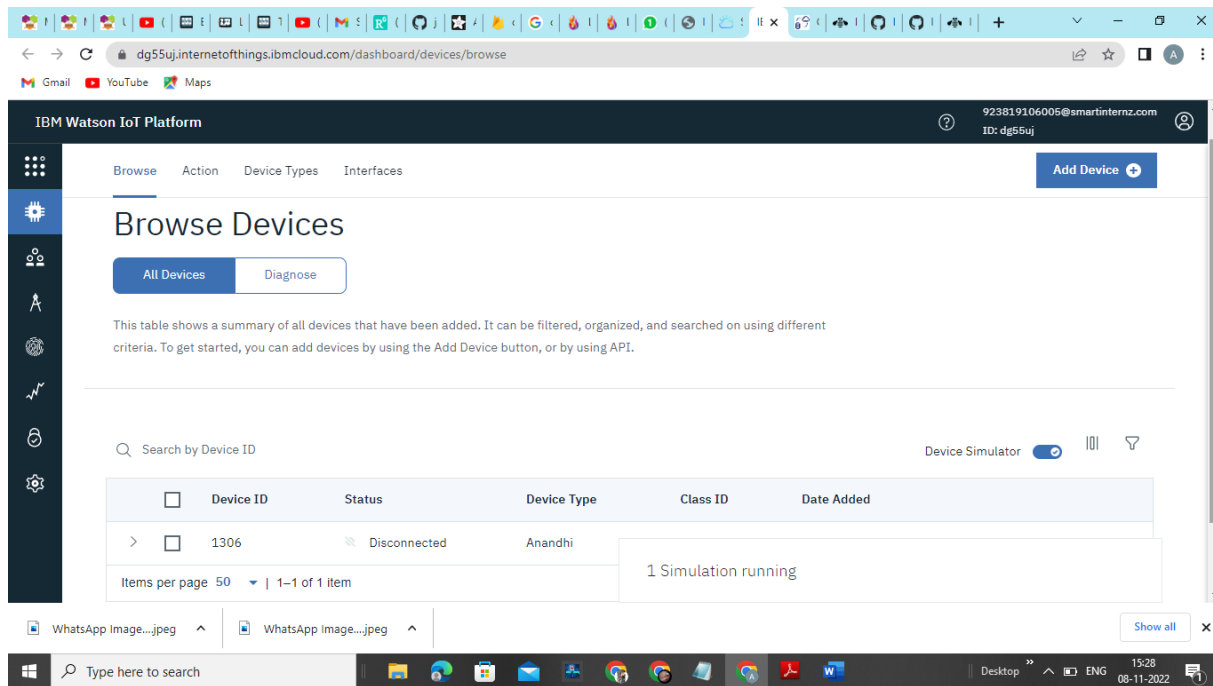
In the security tab we can choose the type of security connection and can change according to specification



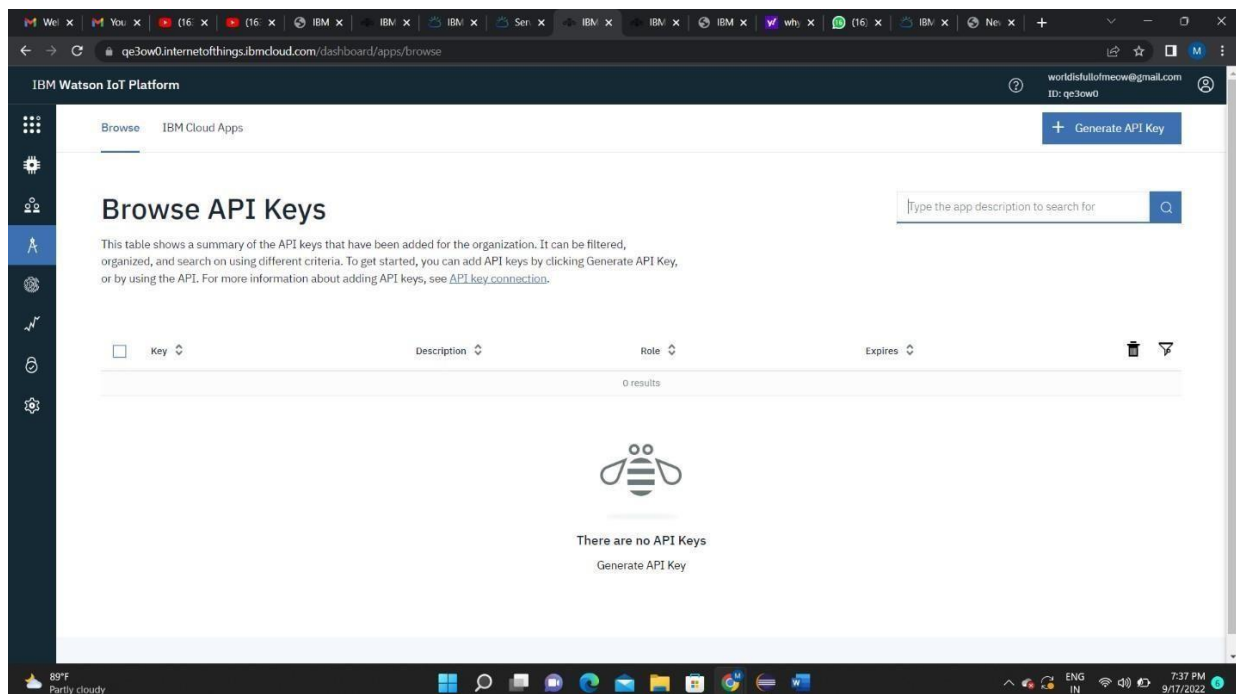
Usage gives the summary of how many bytes are used between the devices and the IBM cloud.



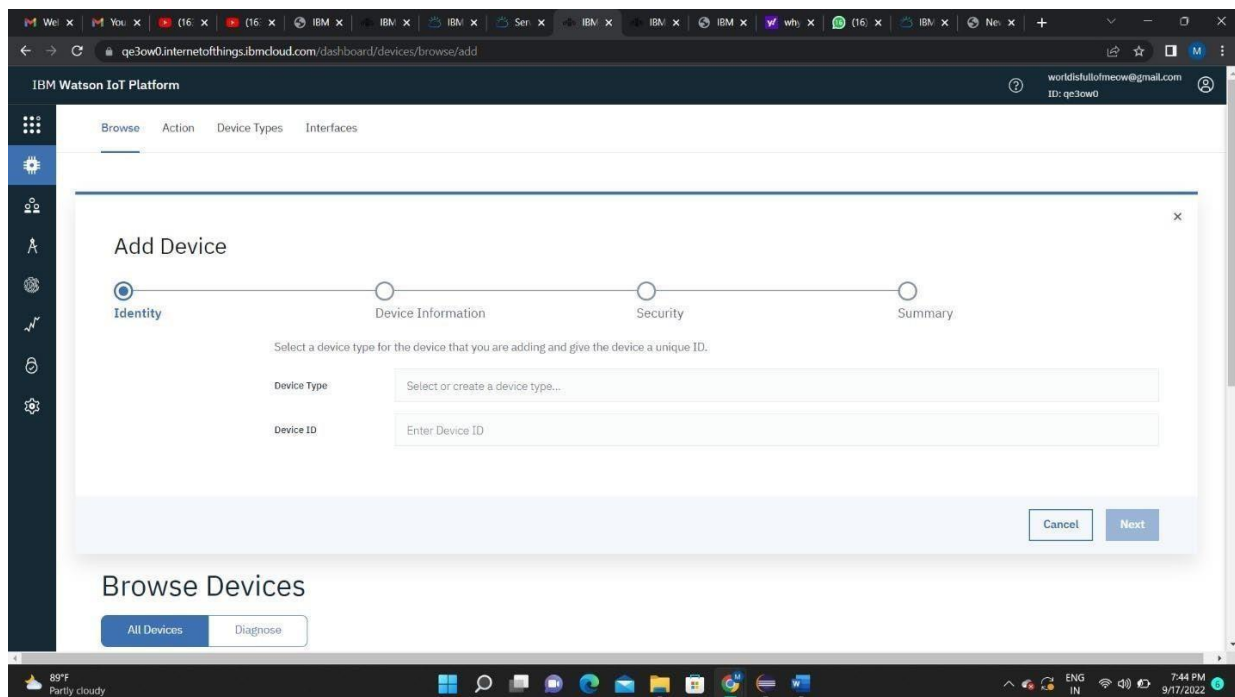
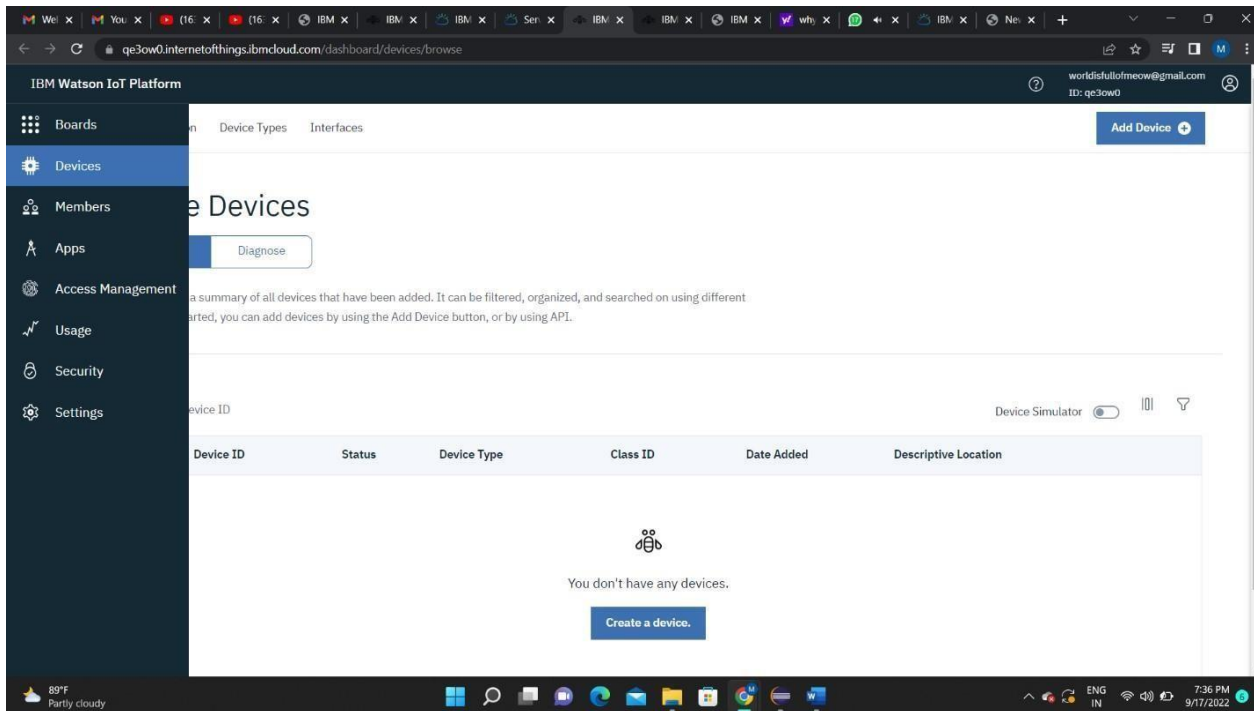
The member tab is add the teams members to work in the platform

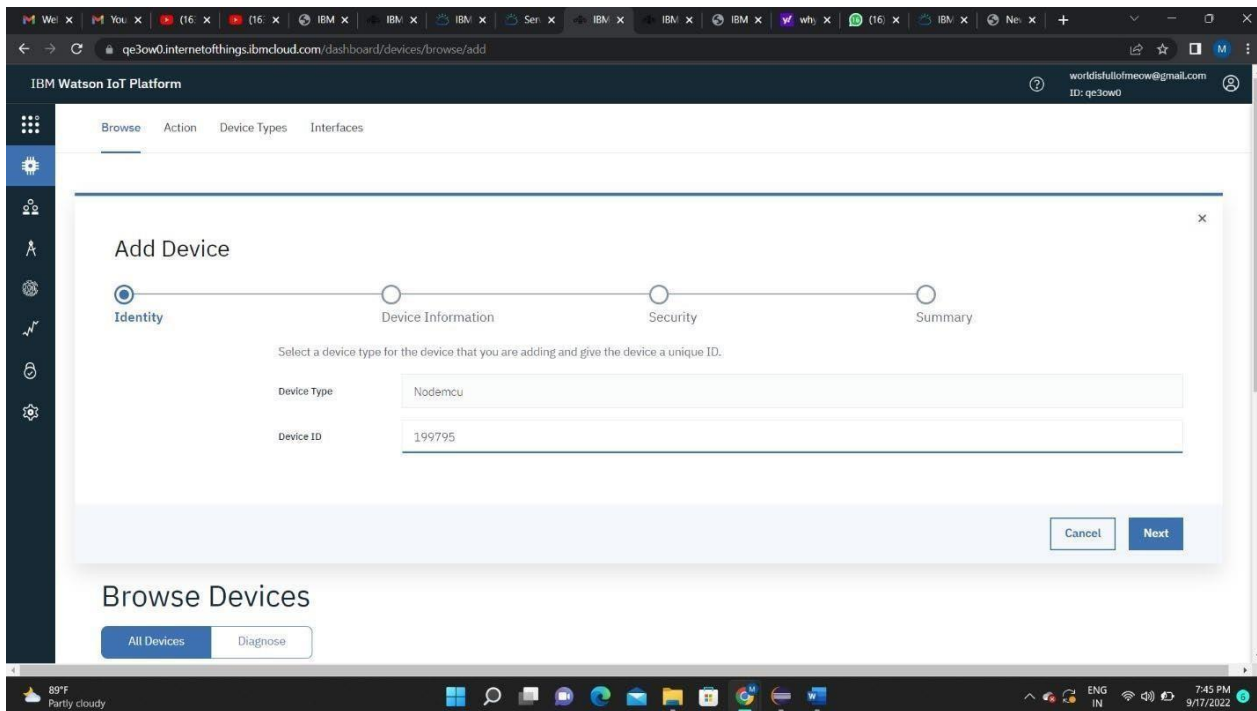


This tab is used when you want to connect to some other platform and to integrate with other services.

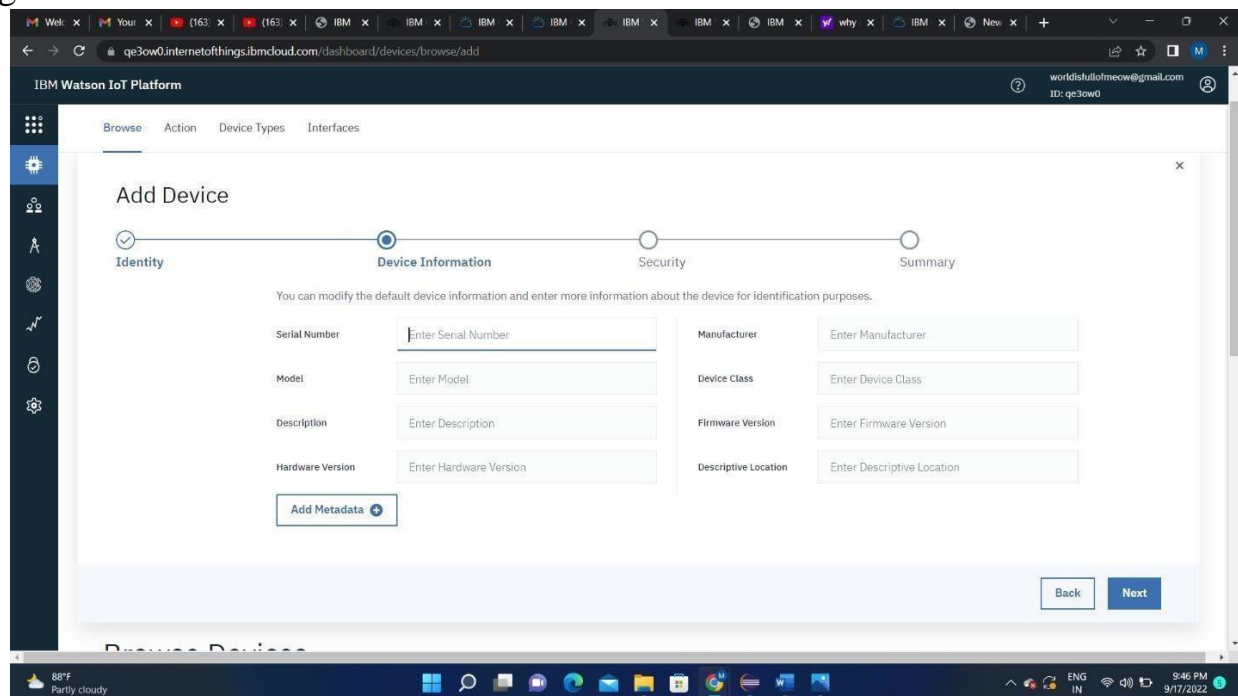


Click on the device tab and click on the add device button, then give the device type and device id and click next

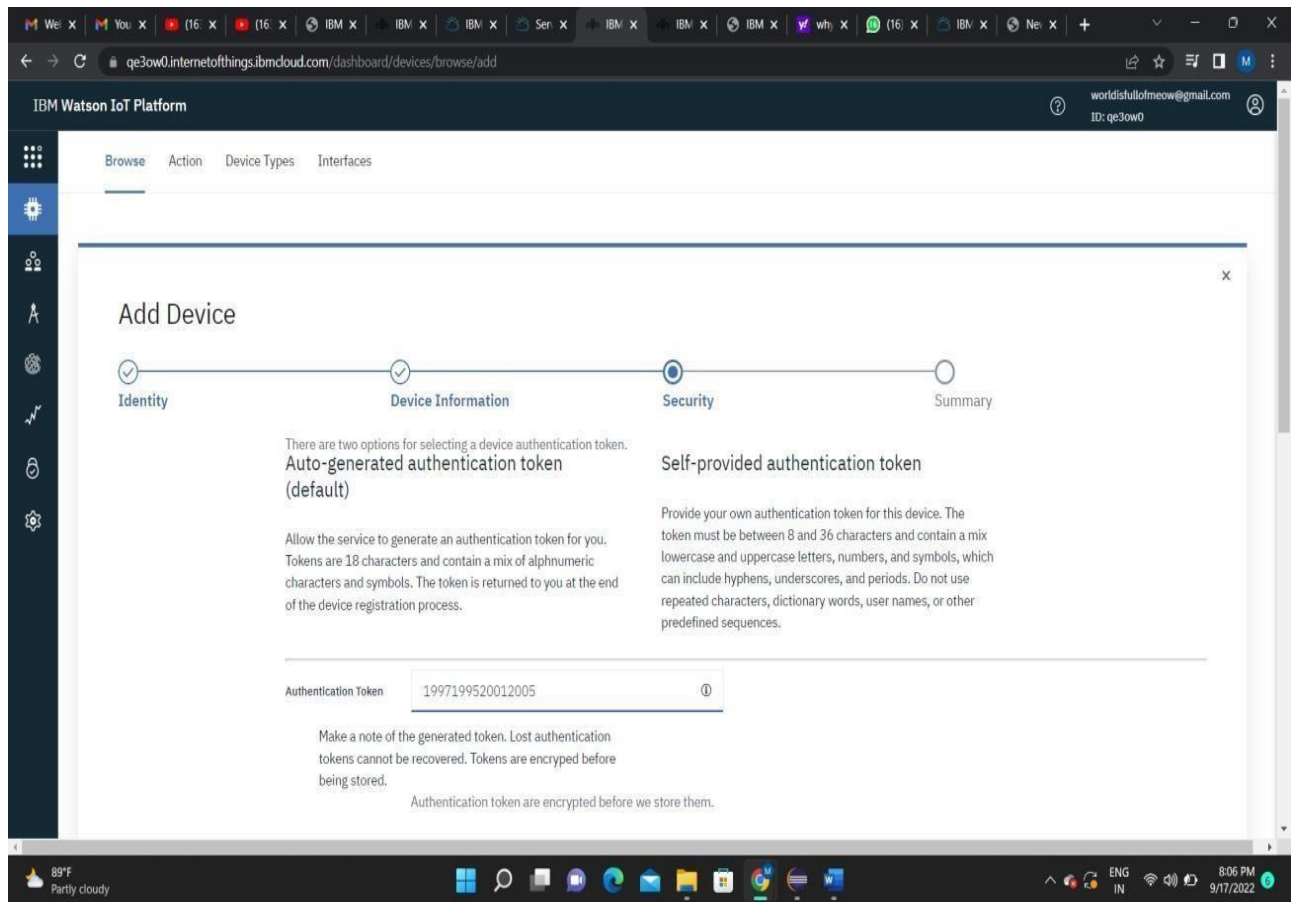




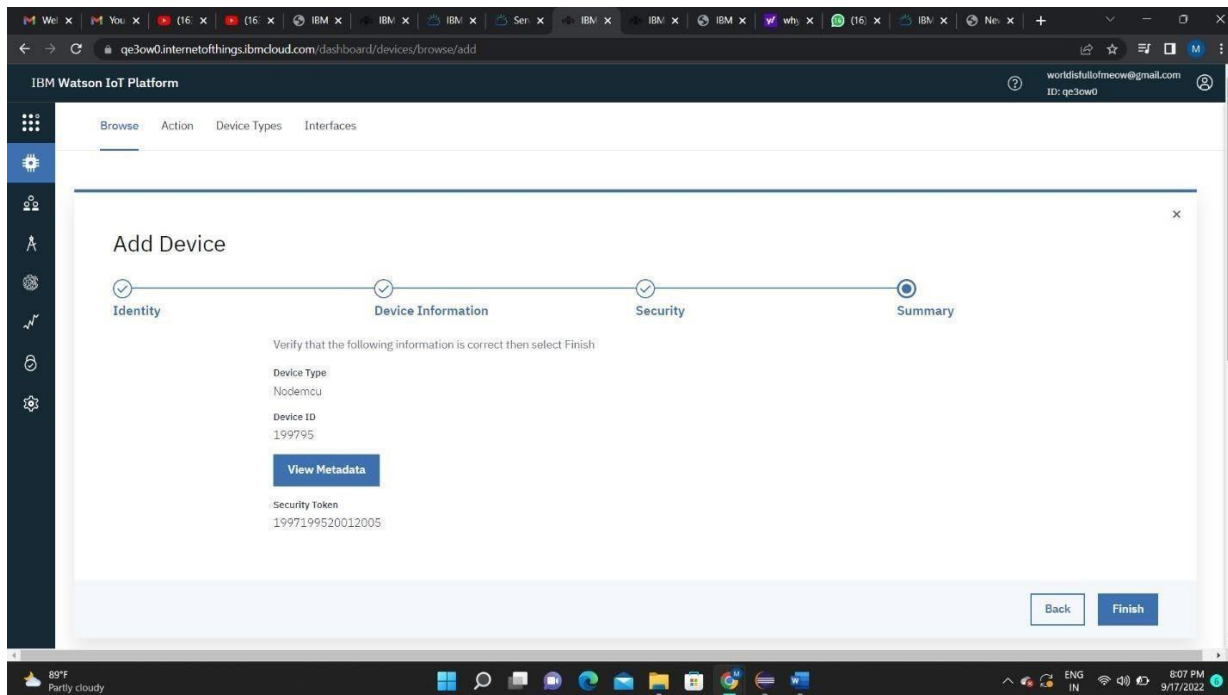
This page to enter extra details and of the hardware



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



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



The device credentials will be displayed with all the details

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The main content area displays a table with columns: Device ID, Status, Device Type, Class ID, and Date Added. A single device is listed with ID 1306, status 'Disconnected', and type 'Anandhi'. Below the table, a detailed view of the device is shown, including its identity, device information, recent events, state, and logs. The device information section lists: Device ID (1306), Device Type (Anandhi), Date Added (Nov 5, 2022 3:19 PM), Added By (923819106005@smartinternz.com), and Connection Status (Disconnected). A notification at the bottom right states '1 Simulation running'.

Device ID	Status	Device Type	Class ID	Date Added
1306	Disconnected	Anandhi	Device	Nov 5, 2022 3:19 PM

Identity | Device Information | Recent Events | State | Logs

Device ID: 1306
Device Type: Anandhi
Date Added: Nov 5, 2022 3:19 PM
Added By: 923819106005@smartinternz.com
Connection Status: Disconnected

Items per page 50 | 1-1 of 1 item

1 Simulation running

Safe the details of the device as the authentication tokens are nonrecoverable and if misplaced then we have to create a new one.

The screenshot shows the 'Browse Devices' page in the IBM Watson IoT Platform. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The main content area displays a table with columns: Device ID, Status, Device Type, Class ID, and Date Added. A single device is listed with ID 1306, status 'Disconnected', and type 'Anandhi'. Below the table, a detailed view of the device is shown, including its identity, device information, recent events, state, and logs. The device information section lists: Device ID (1306), Device Type (Anandhi), Date Added (Nov 5, 2022 3:19 PM), Added By (923819106005@smartinternz.com), and Connection Status (Disconnected). A notification at the bottom right states '1 Simulation running'.

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
1306	Disconnected	Anandhi		

Items per page 50 | 1-1 of 1 item

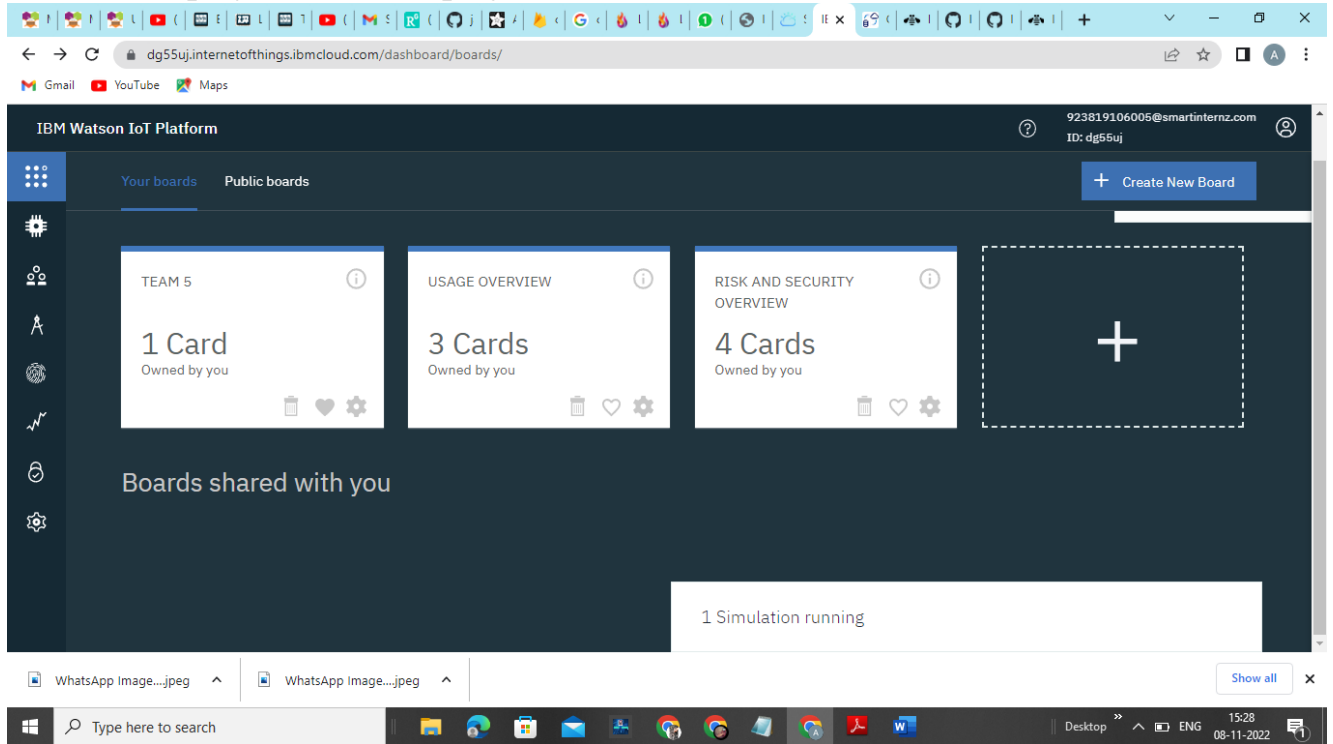
1 Simulation running

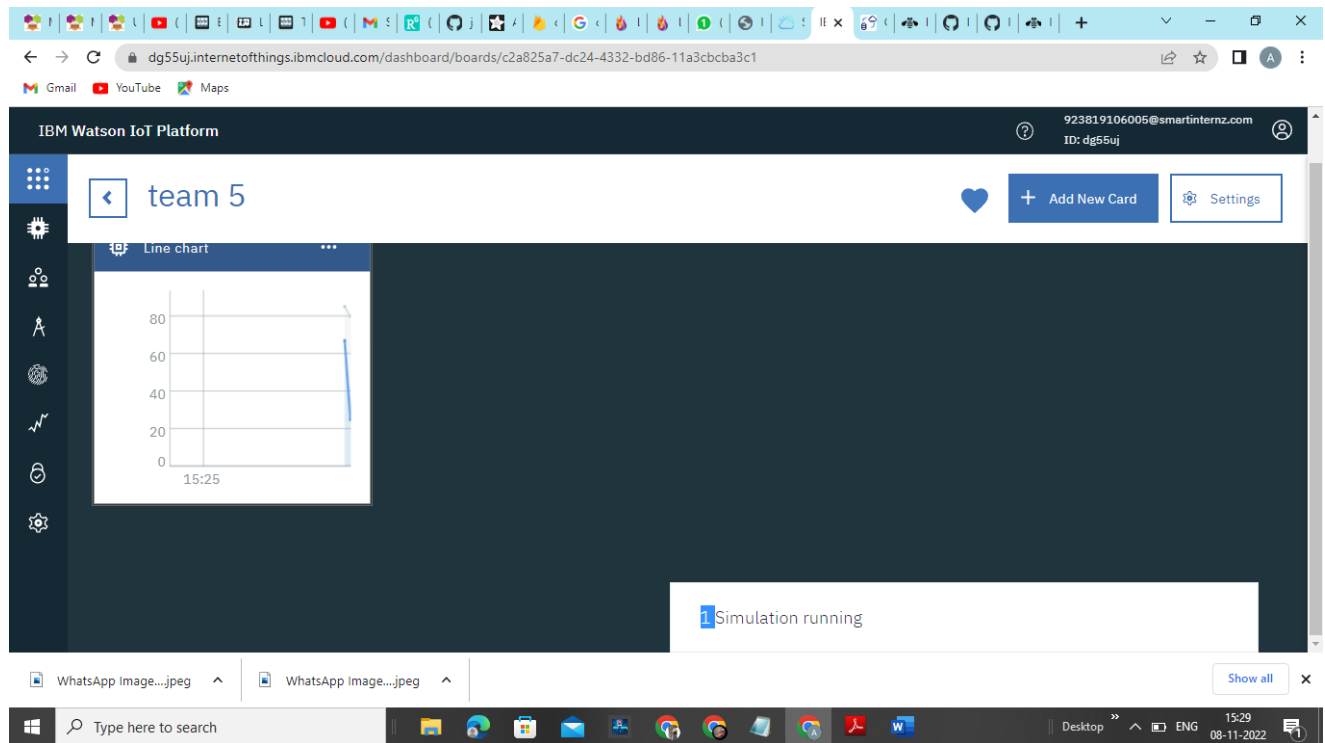
Clicking on the device tab we can now see the added device. Clicking on it will display the other details.

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

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

The Boards will display card for the project.





RESULT:

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