

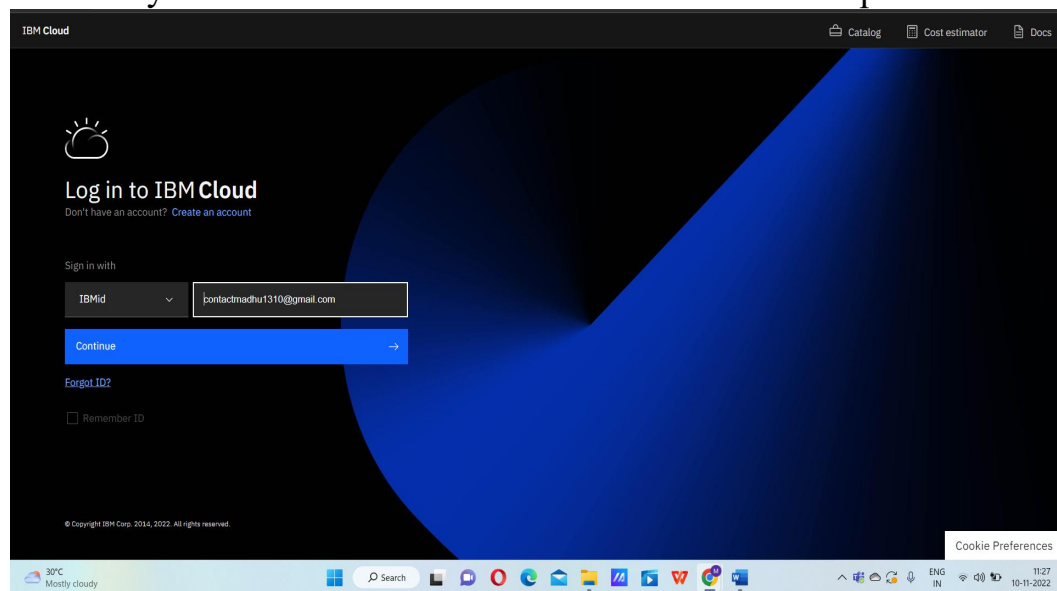
# CREATE IBM WATSON IOT PLATFORM AND DEVICE

## AIM:

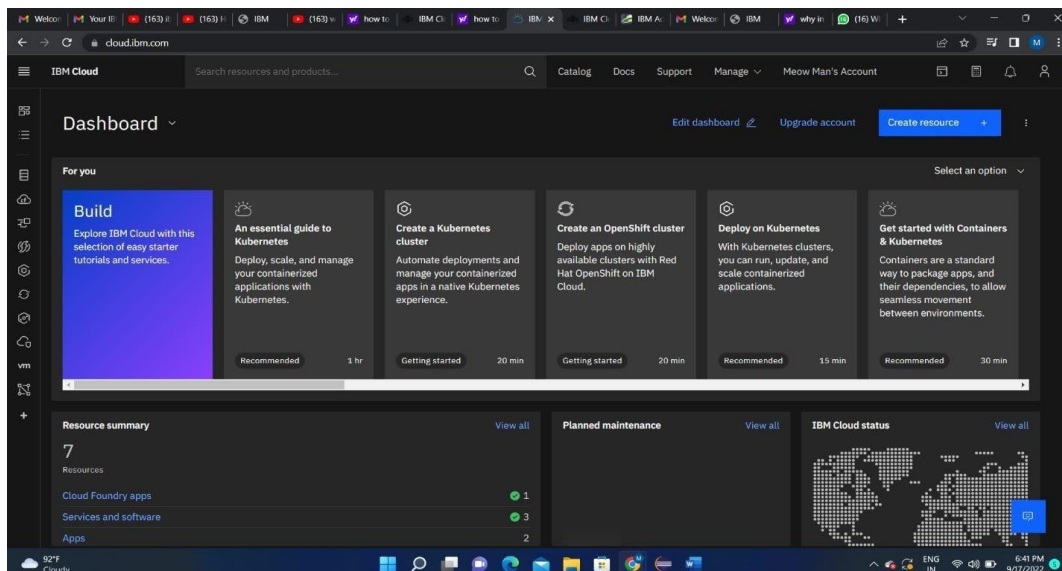
To create the IBM Watson IoT platform and device

## STEPS:

1. Firstly create an IBM cloud account with IBMid and password



2. Home page of IBM cloud



### 3. Click on the catalog on the top

The screenshot shows the IBM Cloud Catalog page for the Internet of Things Platform. The page is titled "Internet of Things Platform" and includes a description: "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." The page has two tabs: "Create" and "About". The "Create" tab is active, showing a "Select a location" dropdown menu with "Frankfurt (eu-de)" selected. Below this is a "Select a pricing plan" section with a table of plans. The table has three columns: "Plan", "Features", and "Pricing". The "Lite" plan is selected, showing features like "Includes up to 500 registered devices, and a maximum of 200 MB of each data metric" and a pricing of "Free". A summary sidebar on the right shows the service name, location, plan, and a "Create" button. The bottom of the page shows a Windows taskbar with various application icons and a system tray with the date and time.

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

### 4. Click on IoT in the category mentioned

The screenshot shows the IBM Watson IoT Platform Journey page. The page is titled "Internet of Things Platform-si" and includes a "Manage" tab. The "Manage" tab is active, showing a "Plan" section with a "Launch" button. Below this is a "Ready for the next level?" section with a "IBM Watson IoT Platform Journey" section. The journey is divided into three stages: "Lite", "Non-Production", and "Production". The "Lite" stage is selected, showing a description of the service plan and a pricing of "Free". The "Non-Production" stage shows a pricing of "Starts at \$500 per month". The "Production" stage shows a pricing of "Includes IBM Service & Support". The bottom of the page shows a Windows taskbar with various application icons and a system tray with the date and time.

Stage	Description	Pricing
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

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

The screenshot shows the IBM Cloud console for the Internet of Things Platform. The main content area displays the 'Lite' plan, which includes up to 500 registered devices and a maximum of 200 MB of each data metric. The pricing is listed as '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 'Configure your resource' section includes the following fields:

- Service name:** Internet of Things Platform-bb
- Select a resource group:** Default
- Tags:** Examples: env:dev, version-1
- Access management tags:** Examples: access:dev, proj:version-1

The 'Summary' section on the right provides additional details:

- Internet of Things Platform** (Free)
- Location: London
- Plan: Lite
- Service name: Internet of Things Platform-bb
- Resource group: Default

At the bottom right, there are buttons for 'Create' and 'Add to estimate'.

6. 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

IBM Cloud 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

Updated on 08/15/2022

Category Internet of Things

Compliance IAM-enabled

Location Frankfurt London Dallas Washington DC

Related links Docs Terms

89°F Partly cloudy

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

IBM Cloud 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

Updated on 08/15/2022

Category Internet of Things

Compliance IAM-enabled

Location Frankfurt London Dallas Washington DC

Related links Docs Terms

89°F Partly cloudy

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: 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

**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

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)

The screenshot shows the IBM Cloud IoT Platform console. The left sidebar has a 'Manage' tab selected. The main content area displays a 'Let's get started with IBM Watson IoT Platform' section with a 'Launch' button. Below this, there's a 'Ready for the next level?' section titled 'IBM Watson IoT Platform Journey' with three options: 'Lite', 'Non-Production', and 'Production'. The 'Lite' option is highlighted.

**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

The screenshot shows the IBM Cloud IoT Platform console with the 'Plan' tab selected. The main content area displays the 'Current plan' section, which shows the 'Lite' plan. Below this, there's a 'Current usage' section showing 'N/A'. Further down, there's a 'Change pricing plan' section with a table of plans.

**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**

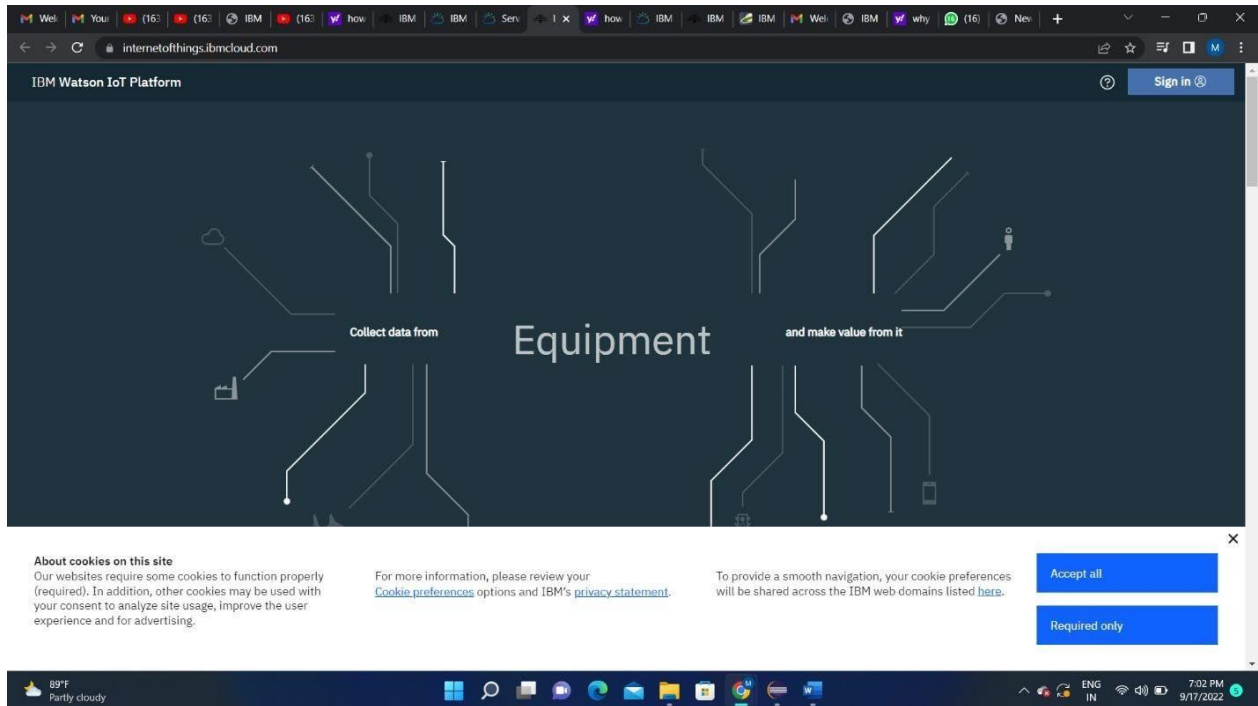
**N/A**

Lite plan services are deleted after 30 days of inactivity.

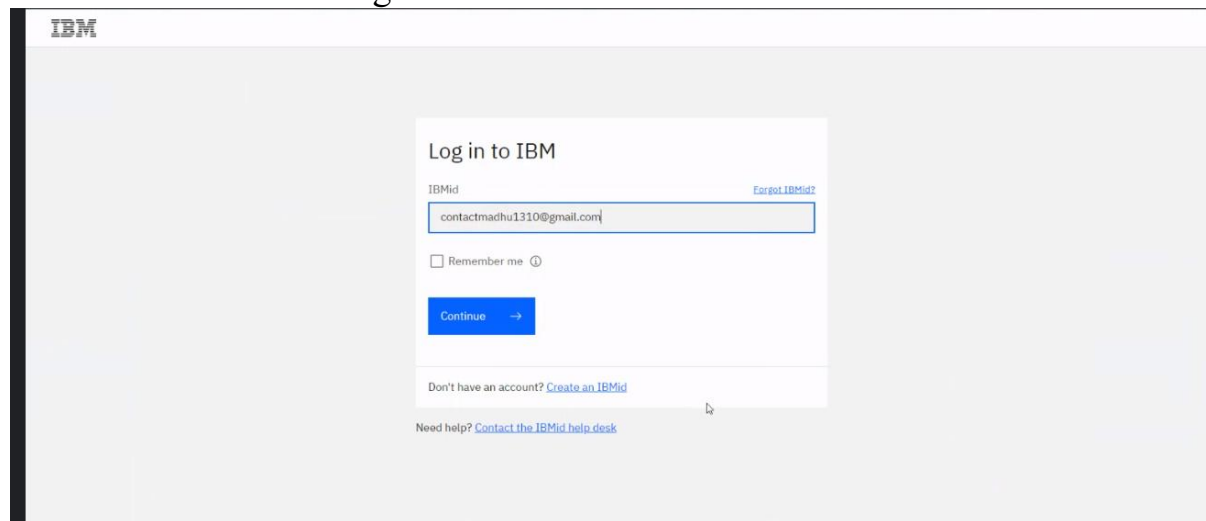
**Change pricing plan**

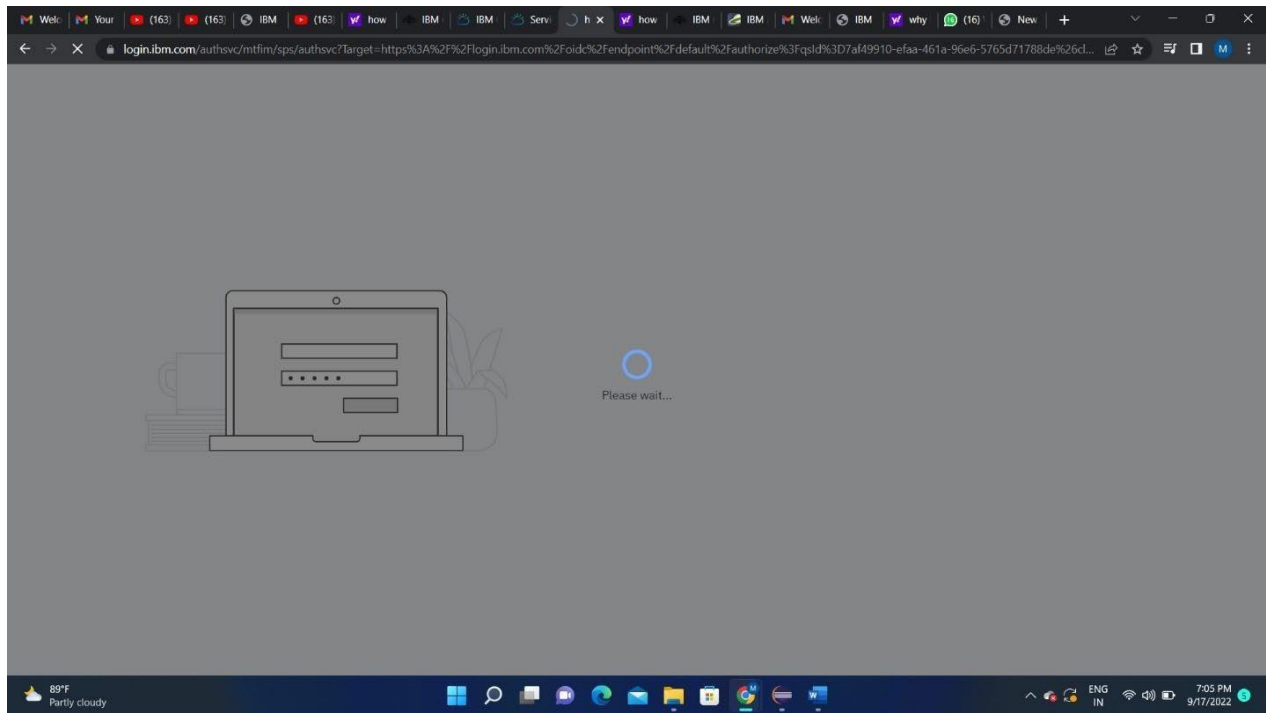
Plan	Features	Pricing
Lite	Includes up to 500 registered devices, and a maximum of 200 MB of each data metric Maximum of 500 registered devices Maximum of 500 application bindings Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed	Free

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

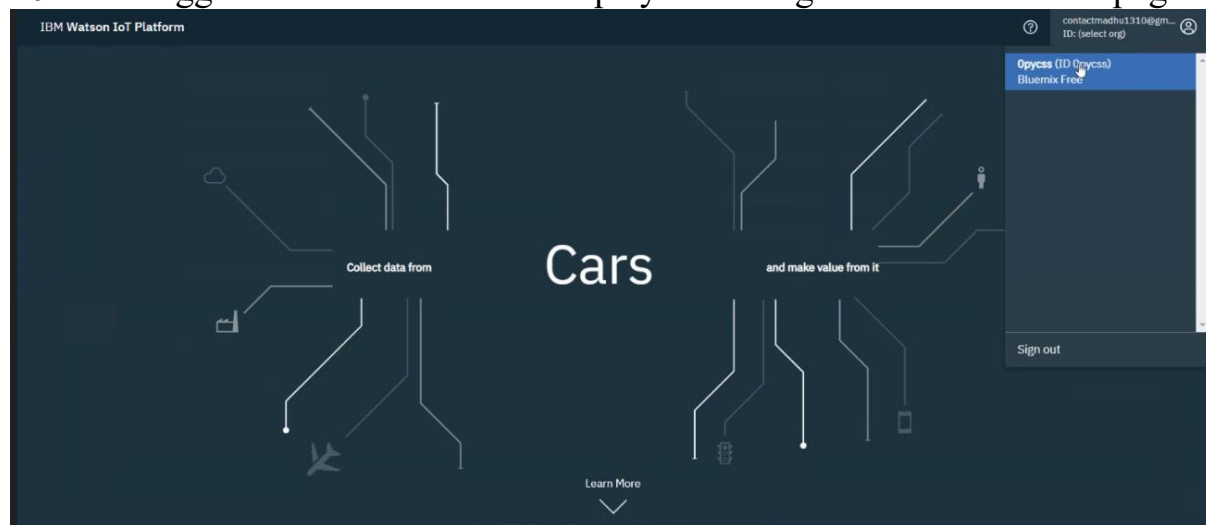


9. Enter the details to sign in to the Watson Cloud to create a device



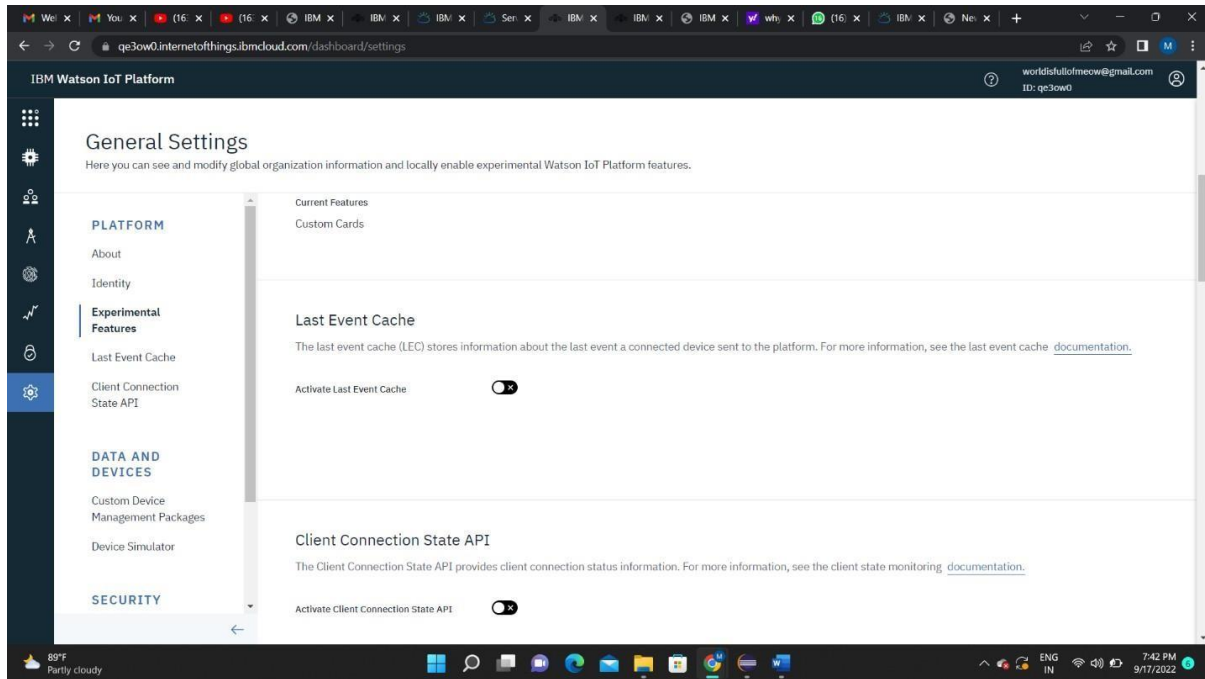


10. Once logged in the name will be displayed and it goes back to the first page





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





Team ID	PNT2022TMID01040
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12. 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. At the top, the header includes the platform name, a user profile icon, and the email 'contactmadhu1310@gmail.com' with ID '0pycs8'. Below the header is a navigation bar with tabs: 'Browse', 'Action', 'Device Types', and 'Interfaces'. A left-hand sidebar contains various icons for navigation. The main content area displays the 'Add Device' wizard, which consists of four steps: 'Identity' (selected), 'Device Information', 'Security', and 'Summary'. Below the steps, a message reads: '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 'madhu123' and 'Device ID' with the value 'training1234'. At the bottom right of the wizard, there are 'Cancel' and 'Next' buttons. Below the wizard, the 'Browse Devices' section is partially visible. The Windows taskbar at the bottom shows the date '10-11-2022' and time '14:13'.

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

IBM Watson IoT Platform

contactmadhu1310@gmail.com  
ID: 0pycss

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.

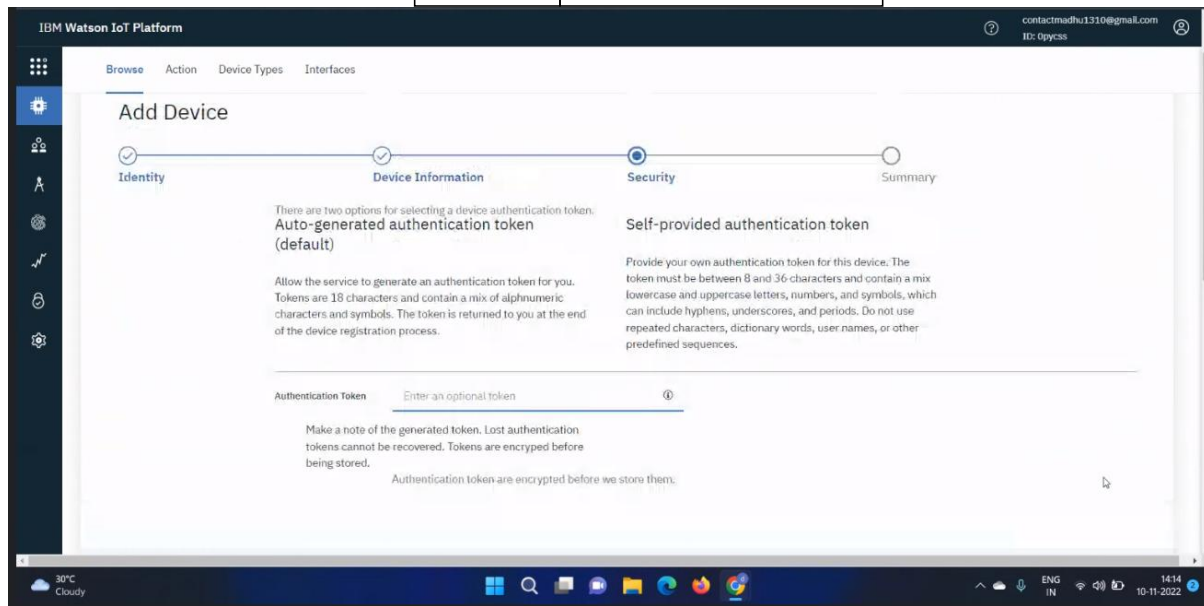
Serial Number	Enter Serial Number	Manufacturer	Enter Manufacturer
Model	Enter Model	Device Class	Enter Device Class
Description	Enter Description	Firmware Version	Enter Firmware Version
Hardware Version	Enter Hardware Version	Descriptive Location	Enter Descriptive Location

Add Metadata +

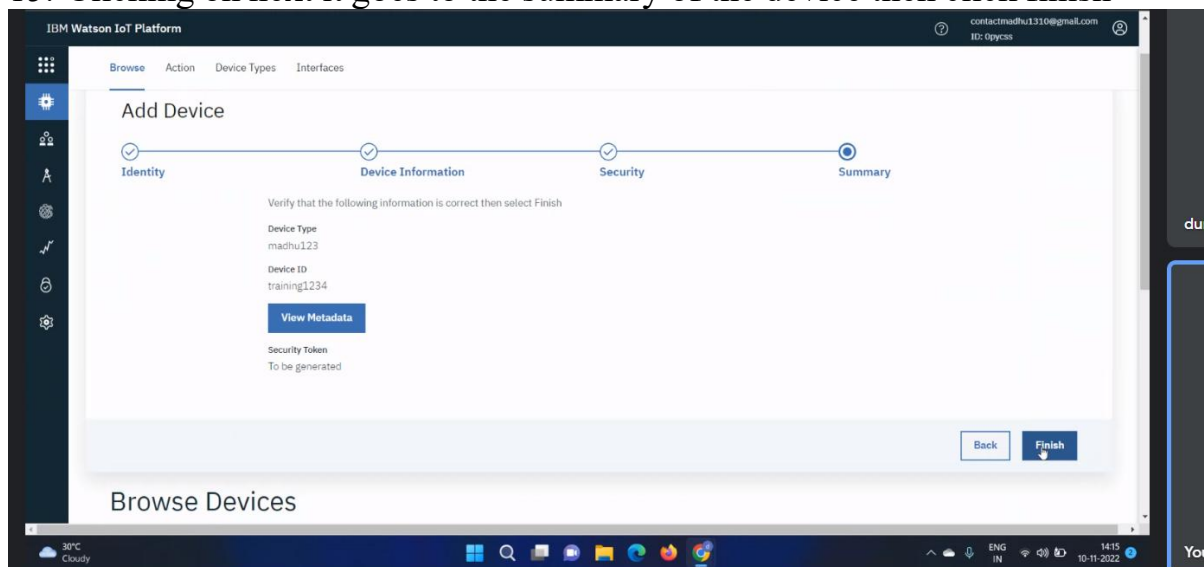
Back Next

Browse Devices

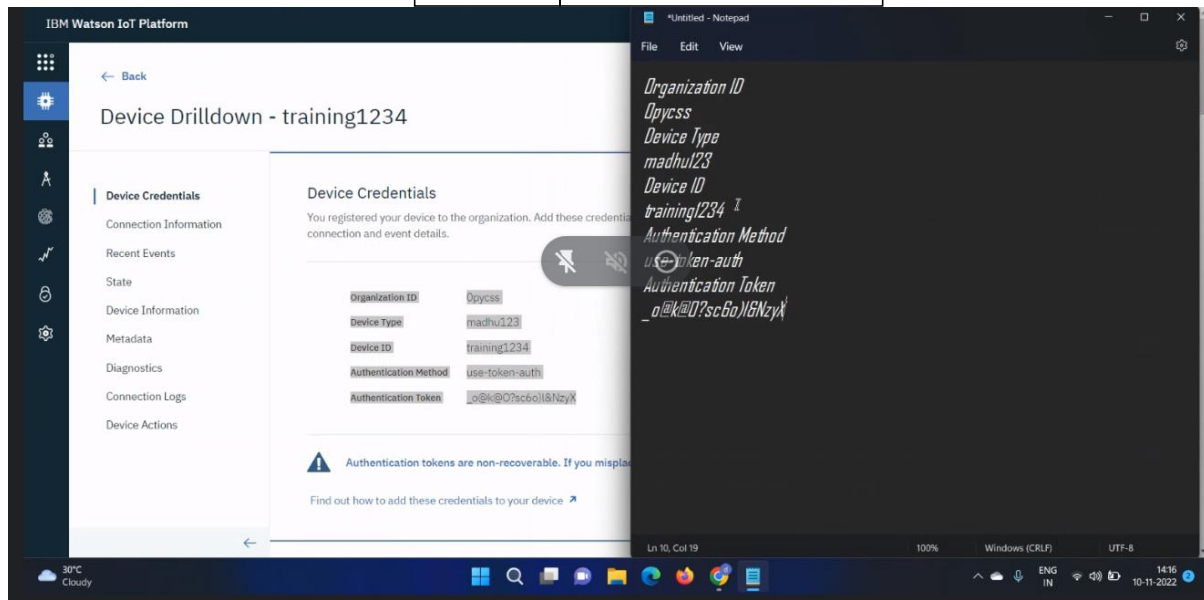
14. Clicking next it goes to the security where we do authentication token id.



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

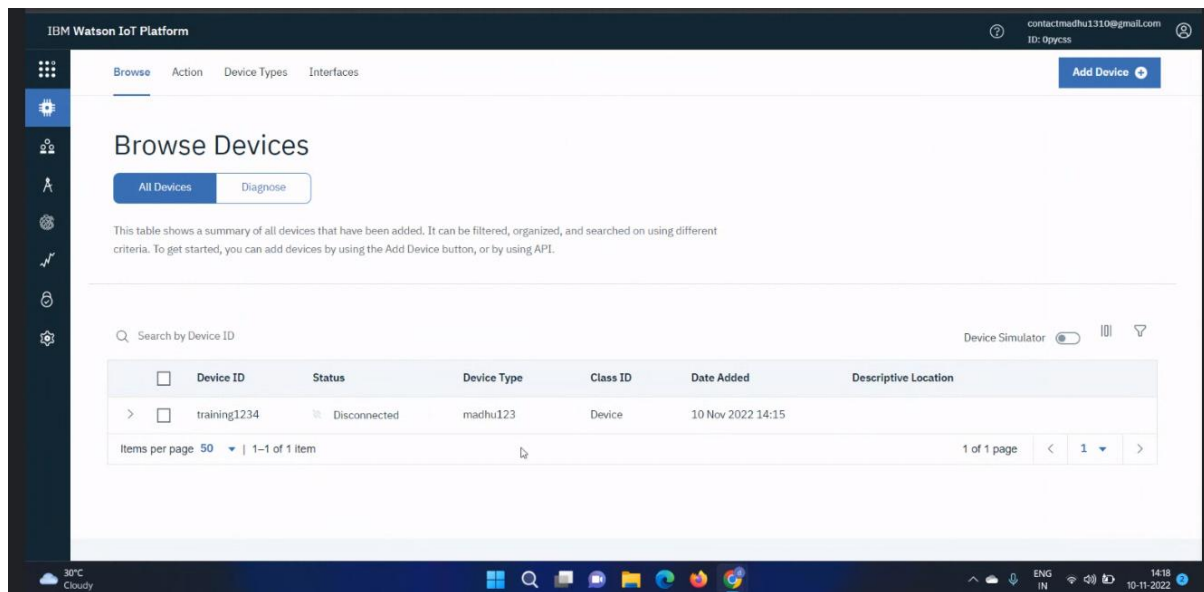


16. The device credentials will be displayed with all the details

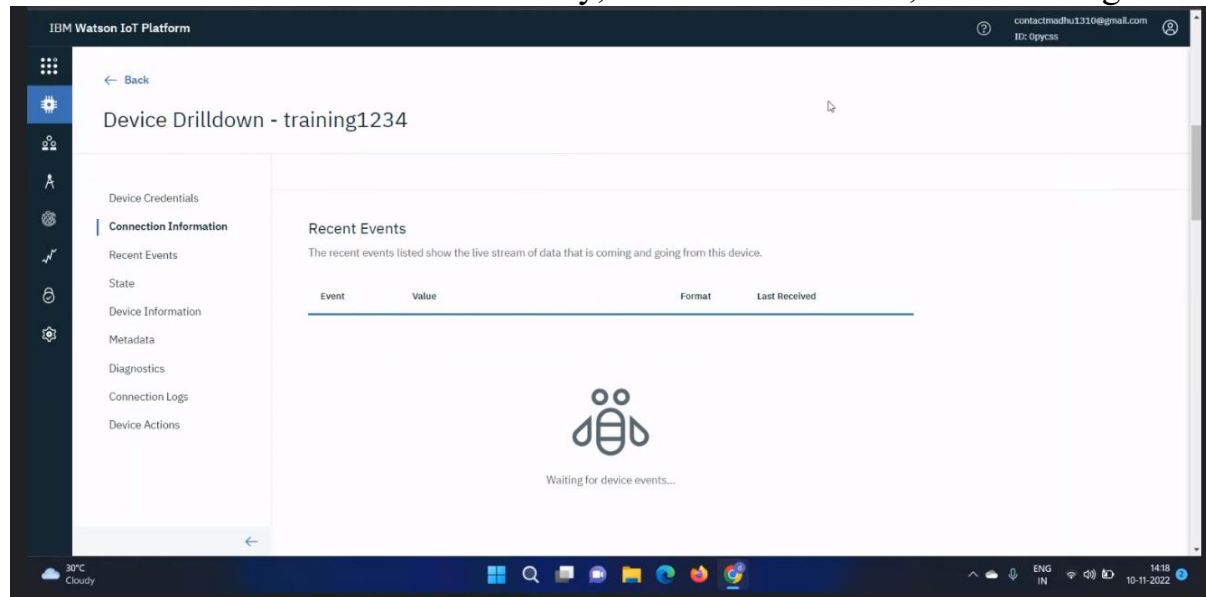


17. Save the details of the device as the authentication tokens are non-recoverable and if misplaced then we have to create a new one.

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

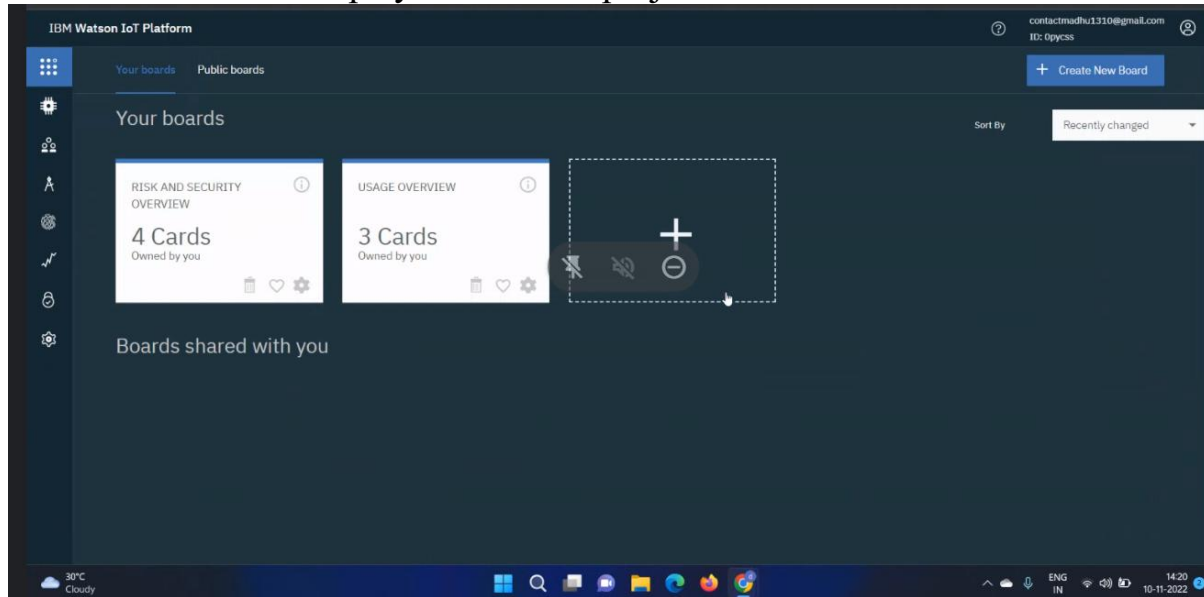


It has different tabs like Identity, Device Information, State and login.



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

19. The Boards will display card for the project.



## RESULT:

An IBM Watson cloud for IoT and a device is created