

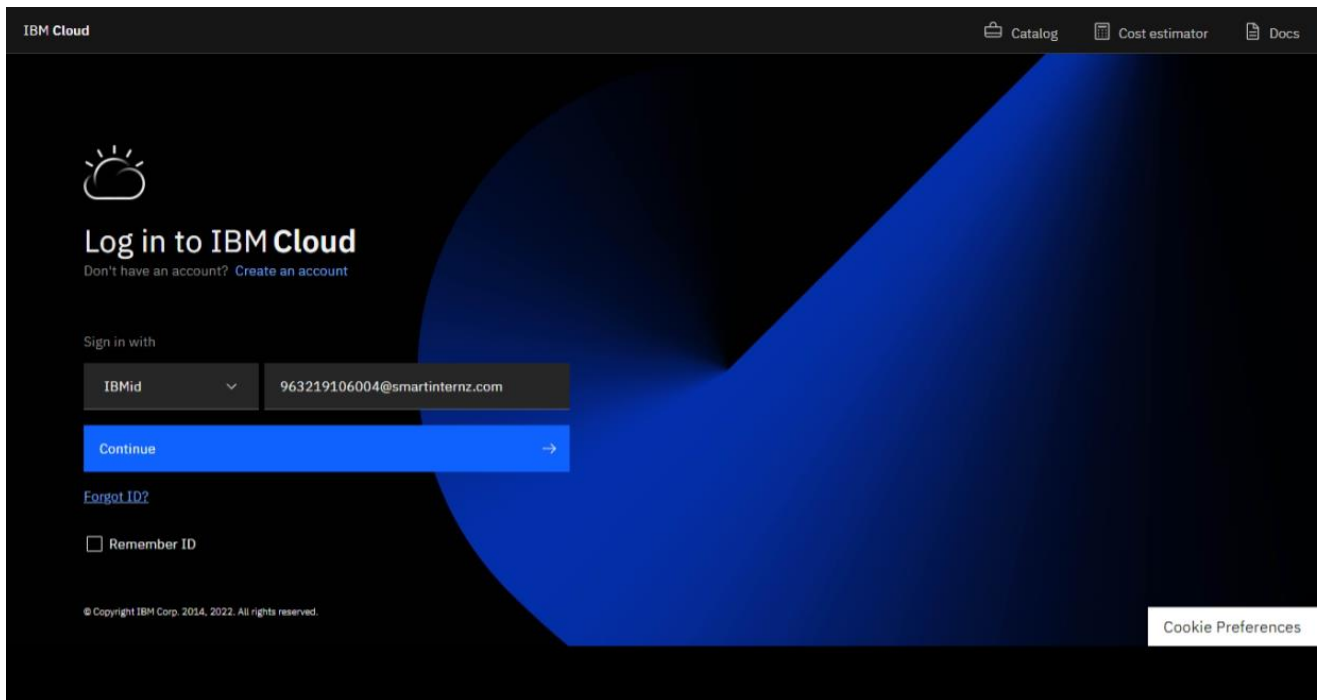
CREATE IBM WATSON IOT PLATFORM AND DEVICE

AIM:

To create the IBM Watson IoT platform and device


STEPS:

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



IBM Cloud

Catalog Cost estimator Docs



Log in to IBM Cloud
Don't have an account? [Create an account](#)

Sign in with

IBMid 963219106004@smartinternz.com

Continue →

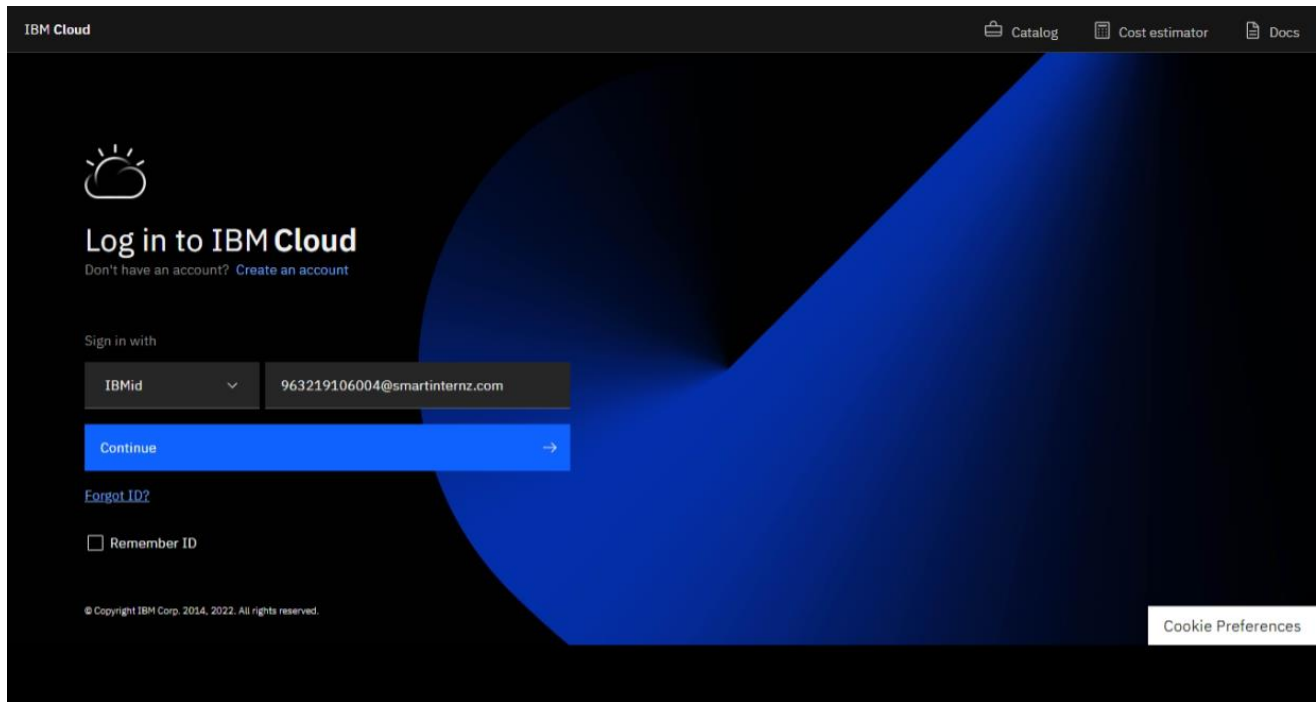
[Forgot ID?](#)

☐ Remember ID

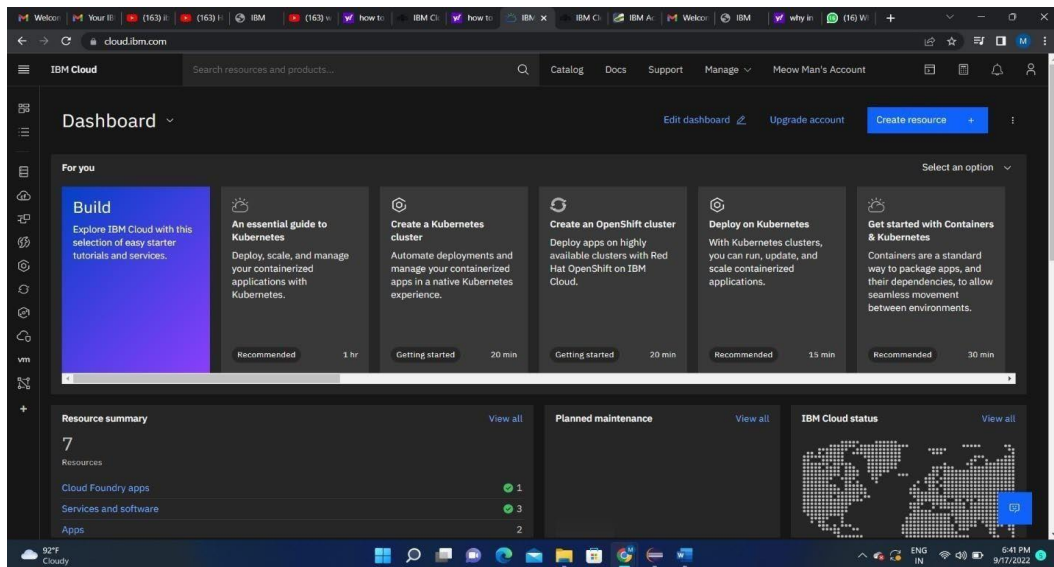
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Cookie Preferences

- 2.



3. Home page of IBM cloud



4. 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". On the right side, there is a "Summary" section with details like "Location: Frankfurt", "Plan: Lite", "Service name: Internet of Things Platform-si", and "Resource group: Default". There is also a "Create" button and an "Add to estimate" button.

Plan	Features	Pricing
Lite	Includes up to 500 registered devices, and a maximum of 200 MB of each data metric 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

5. 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 and a "Docs" button. Below this is a "Ready for the next level?" section with a heading "IBM Watson IoT Platform Journey". The journey is divided into three stages: "Lite", "Non-Production", and "Production". The "Lite" stage is selected, showing a description: "The Lite service plan provides a lightweight development environment to get you started with the connectivity capabilities of Watson IoT Platform." The "Non-Production" stage shows a description: "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." The "Production" stage shows a description: "The Production service is a fully managed SaaS offering that enables you to manage and analyze enterprise IoT data." There is also a "Launch" button and a "Docs" button.

Stage	Description
Lite	The Lite service plan provides a lightweight development environment to get you started with the connectivity capabilities of Watson IoT Platform.
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.
Production	The Production service is a fully managed SaaS offering that enables you to manage and analyze enterprise IoT data.

6. 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 details, including its features and pricing. The 'Configure your resource' section is visible, showing the service name 'Internet of Things Platform-bb' and the resource group 'Default'. A warning message is displayed on the right side, stating: '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 console also shows the 'Summary' section with details like Location: London, Plan: Lite, Service name: Internet of Things Platform-bb, and Resource group: Default. The bottom of the screen shows the Windows taskbar with the date and time 6:47 PM 9/17/2022.

Plan	Features	Pricing
Lite	<ul style="list-style-type: none">Includes up to 500 registered devices, and a maximum of 200 MB of each data metricMaximum of 500 registered devicesMaximum of 500 application bindingsMaximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed <p>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.</p> <p>Lite plan services are deleted after 30 days of inactivity.</p>	Free

Configure your resource

Service name:

Select a resource group:

Tags:

Access management tags:

Summary

Internet of Things Platform **Free**

Location: London

Plan: Lite

Service name: Internet of Things Platform-bb

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](#)

7. 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

Search resources and products...

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](#).

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Create

Add to estimate

IBM Cloud

Search resources and products...

Internet of Things Platform

Compliance: IAM-enabled

Location: Frankfurt, London, Dallas, Washington DC

Related links: Docs, Terms

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

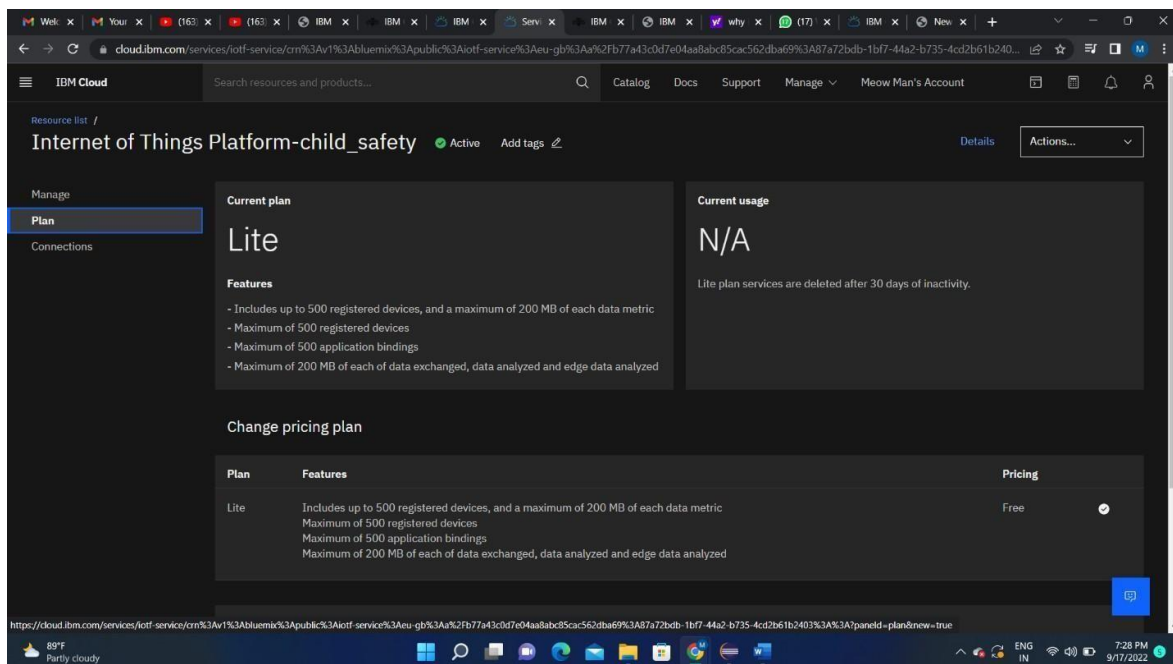
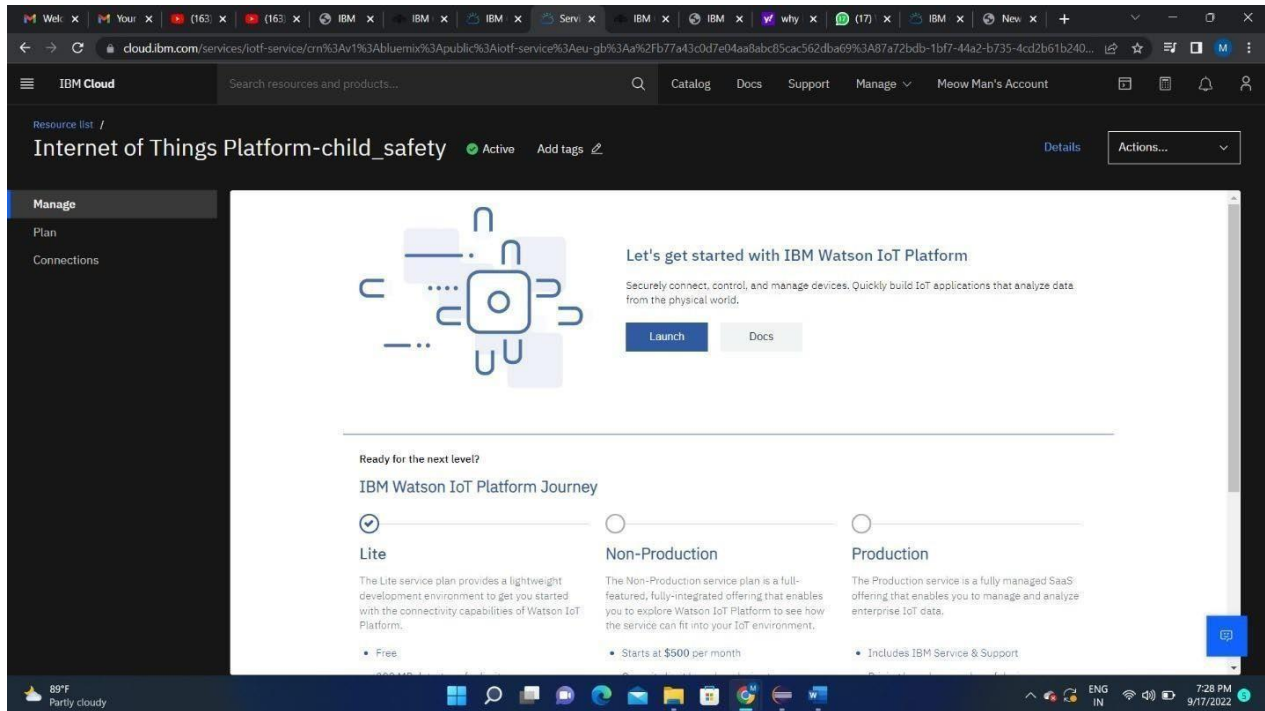
Resource group: Default

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

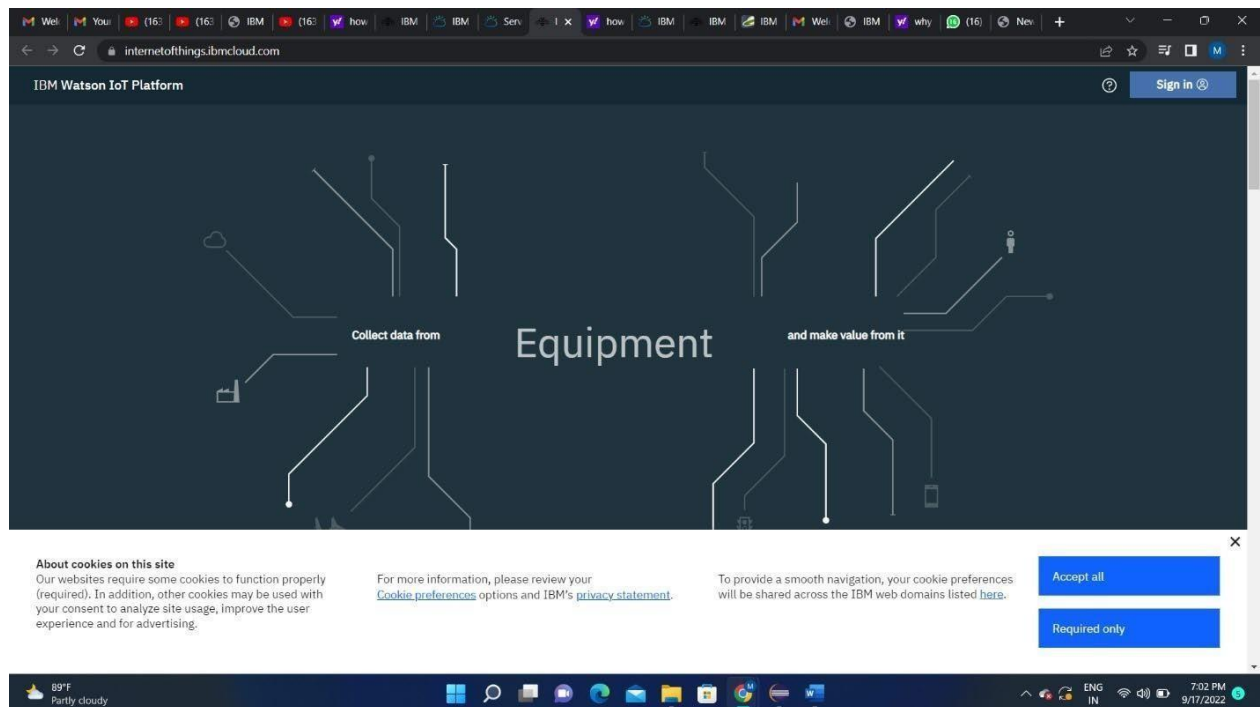
Create

Add to estimate

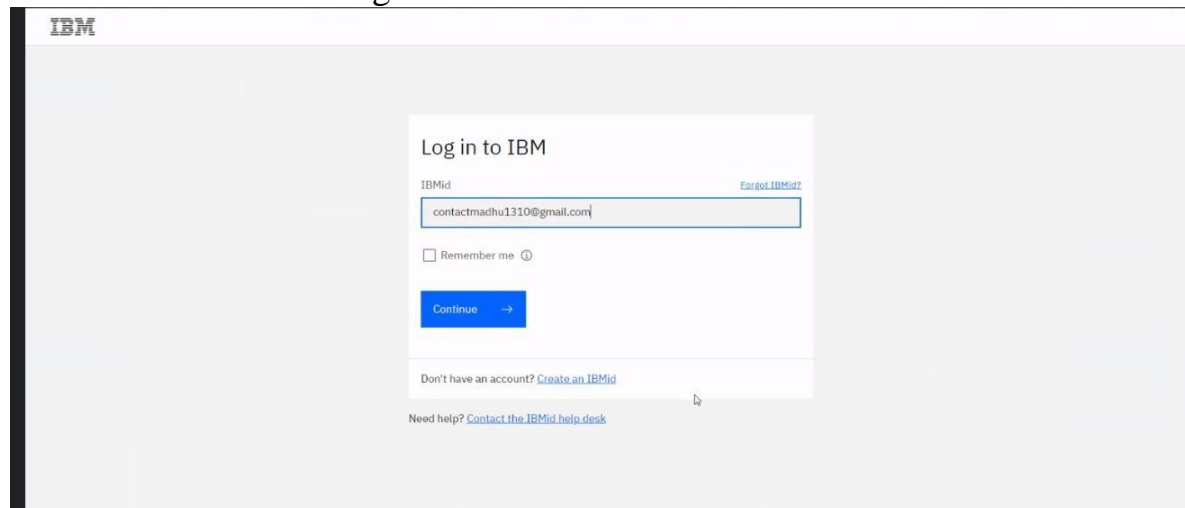
8. Internet of Things Platform Child_safety will be created, where there are different options like manage, plan, and connection (manage is for launch, Plan gives us the idea about the payment package and its upgrades, and lastly the connection is for to connect IoT with other servies)

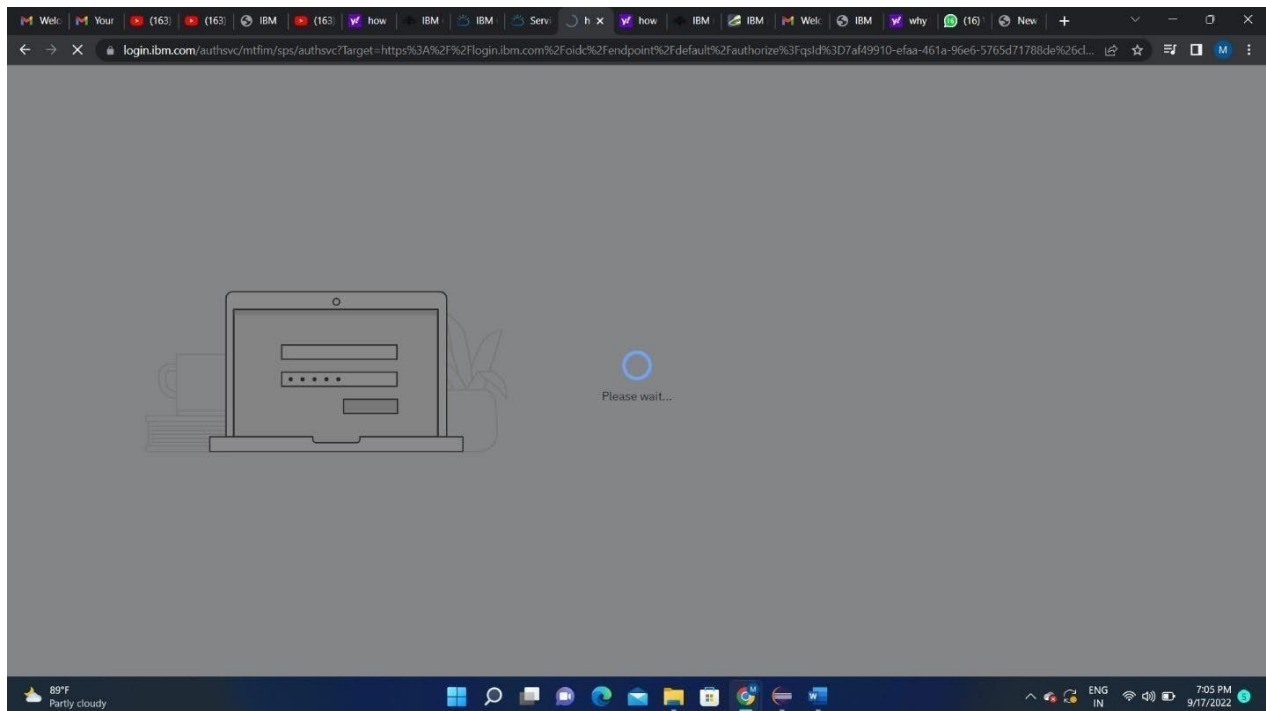


9. Clicking on the launch button in the manage tab, it will open to this

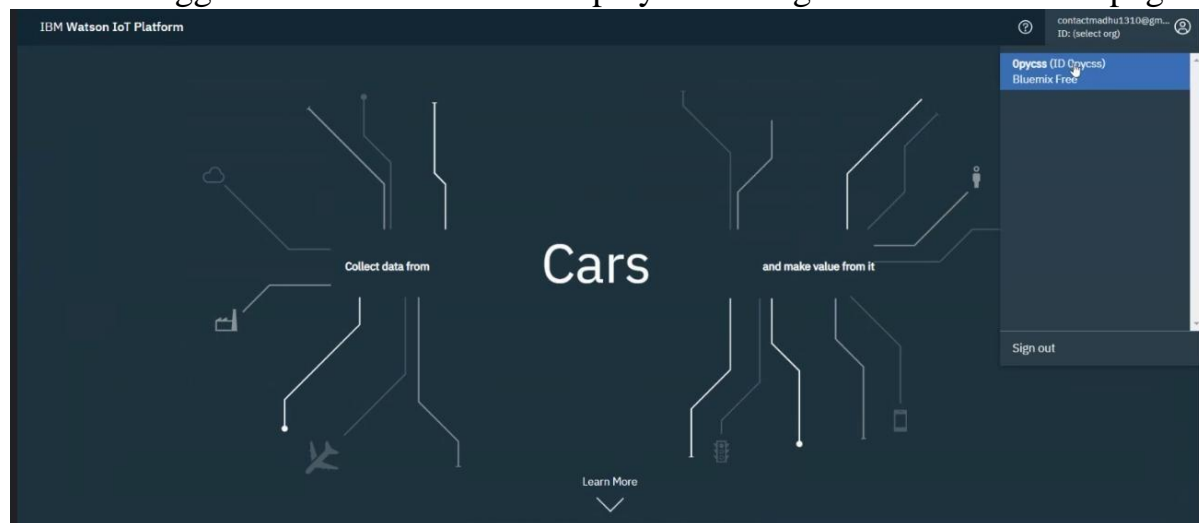


10. Enter the details to sign in to the Watson Cloud to create a device

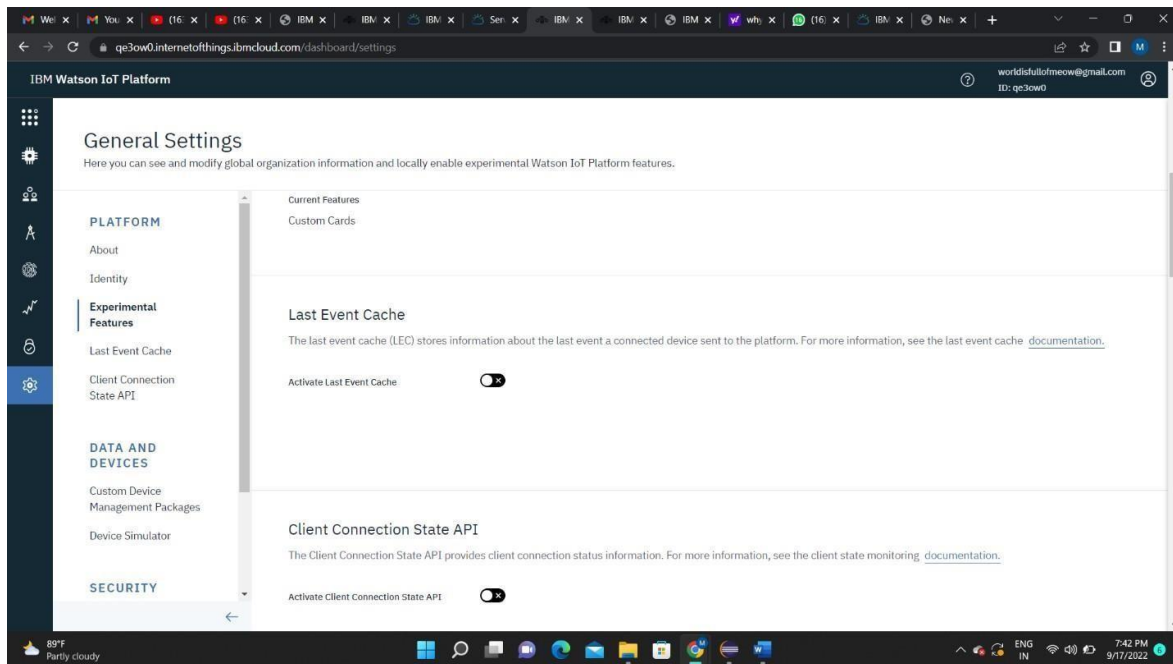




11. Once logged in the name will be displayed and it goes back to the first page



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



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. At the top, the header includes the platform name, a user profile icon, and contact information: 'contactmadhu1310@gmail.com' and 'ID: opycss'. Below the header is a navigation bar with tabs: 'Browse', 'Action', 'Device Types', and 'Interfaces'. The 'Device Types' tab is selected. On the left is a vertical sidebar with various icons. The main content area displays the 'Add Device' wizard. It features a progress bar with 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.' 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 are 'Cancel' and 'Next' buttons. Below the wizard, the 'Browse Devices' section is partially visible. The Windows taskbar at the bottom shows the system clock as 14:13 on 10-11-2022, along with weather (30°C Cloudy) and various application icons.

IBM Watson IoT Platform

contactmadhu1310@gmail.com
ID: opycss

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: madhu123

Device ID: training1234

Cancel Next

Browse Devices

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 page has a dark blue header with the 'IBM Watson IoT Platform' logo on the left and user information on the right. A sidebar on the left contains various icons. The main content area is titled 'Add Device' and features a progress bar with four steps: Identity, Device Information (current), Security, and Summary. Below the progress bar, a message states: 'You can modify the default device information and enter more information about the device for identification purposes.' The form is divided into two columns. The left column contains fields for 'Serial Number', 'Model', 'Description', and 'Hardware Version', each with a corresponding input box. The right column contains fields for 'Manufacturer', 'Device Class', 'Firmware Version', and 'Descriptive Location', each with a corresponding input box. At the bottom left of the form is a button labeled 'Add Metadata' with a plus icon. At the bottom right are 'Back' and 'Next' buttons. The text 'Browse Devices' is visible below the form.

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

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

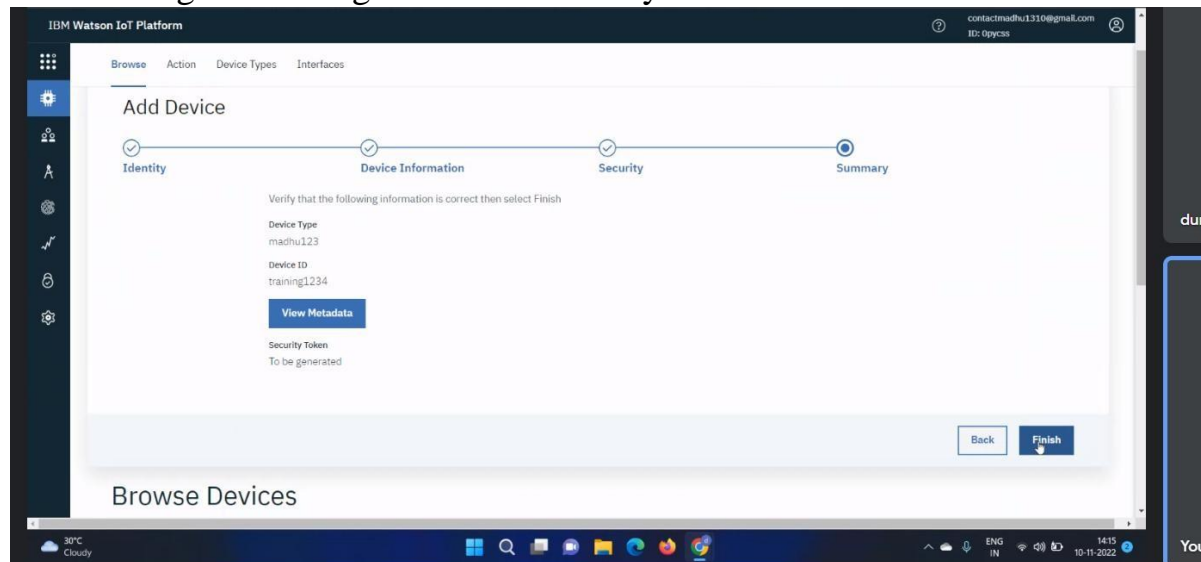
Add Metadata +

Back Next

Browse Devices

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

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



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

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

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

IBM Watson IoT Platform

contactmadhu1310@gmail.com
ID: 0pycs

Browse Action Device Types Interfaces

Add Device

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

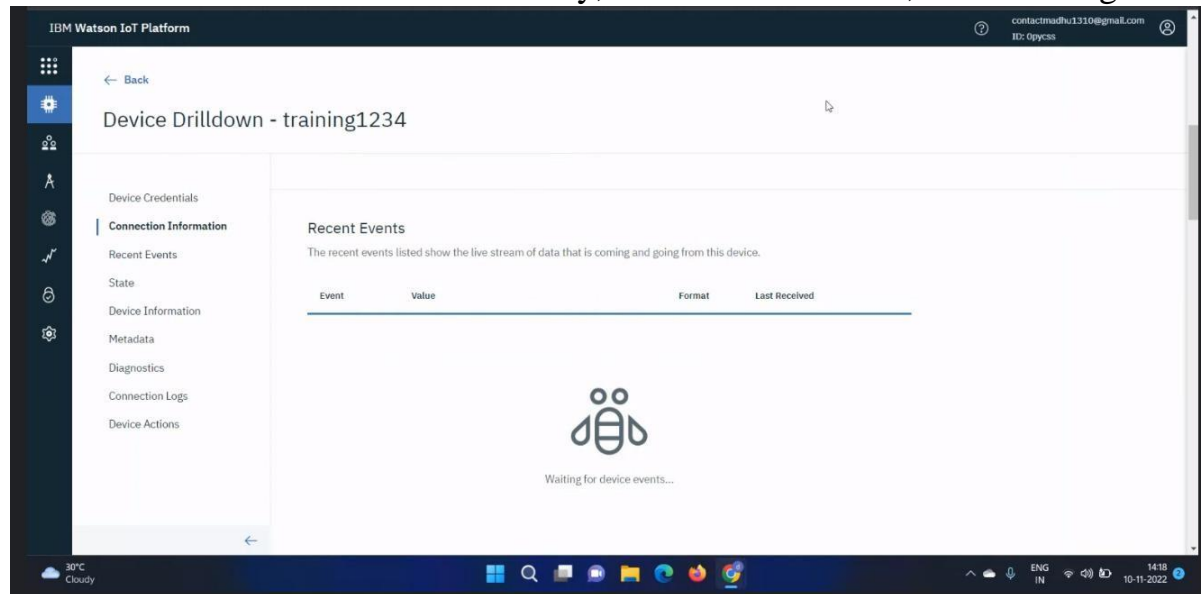
Device Simulator

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
training1234	Disconnected	madhu123	Device	10 Nov 2022 14:15	

Items per page: 50 | 1-1 of 1 item

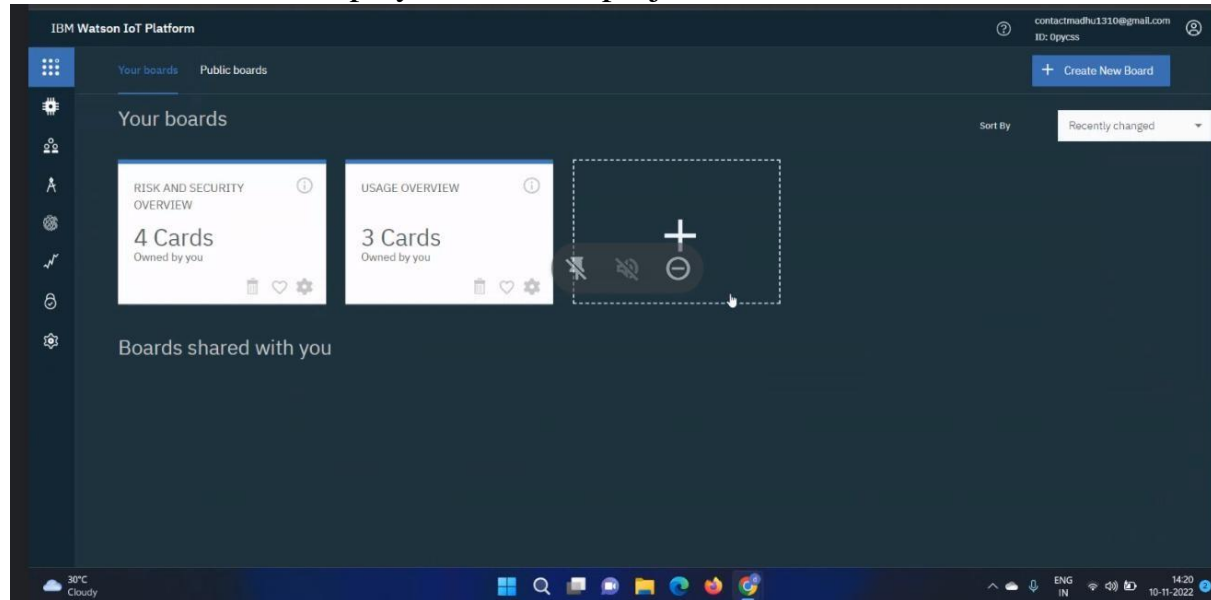
1 of 1 page

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.

20. The Boards will display card for the project.



RESULT:

An IBM Watson cloud for IoT and a device is created