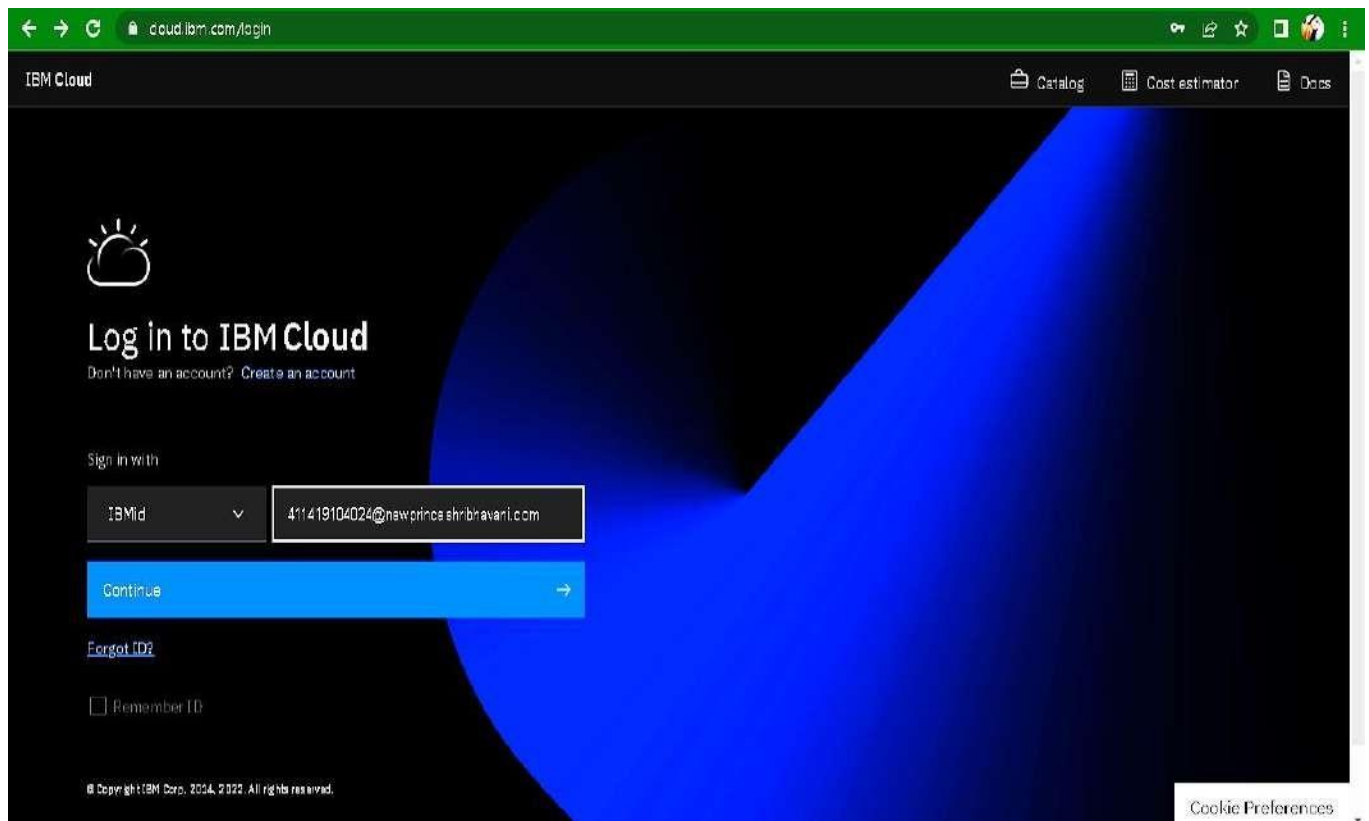


Create And Configure IBM Cloud Service Create IBM Watson IoT Platform And Device

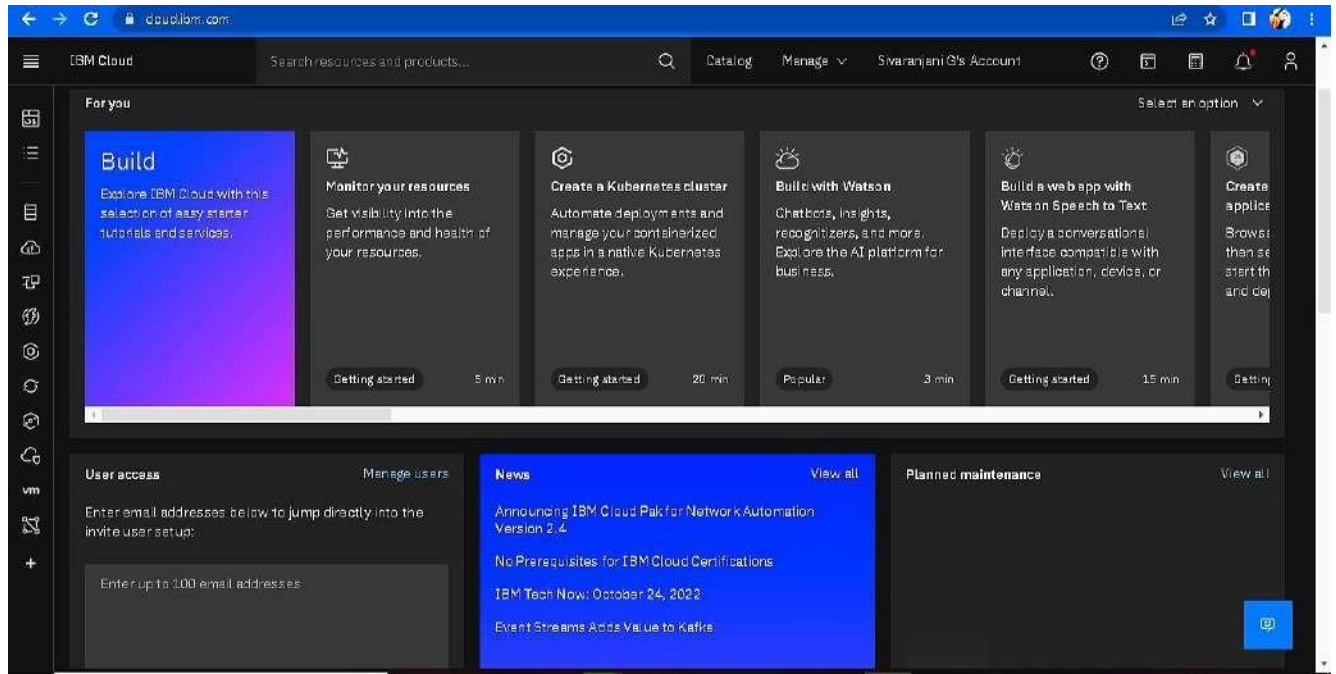
Date	24 October 2022
Team ID	PNT2022TMID46212
Project Name	IoT Based Safety Gadget For Child Safety Monitoring & Notification
Maximum Marks	4 Marks

STEPS

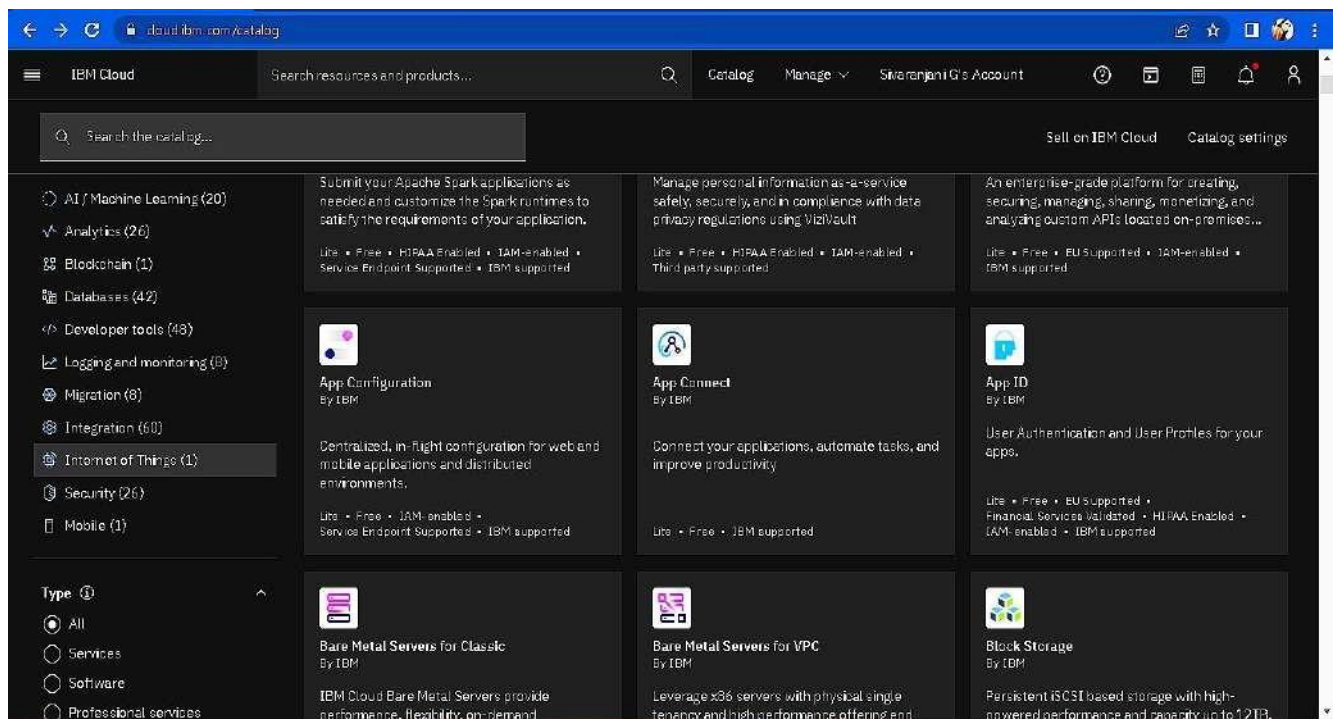
1. Firstly create an IBM cloud account with IBMid and password



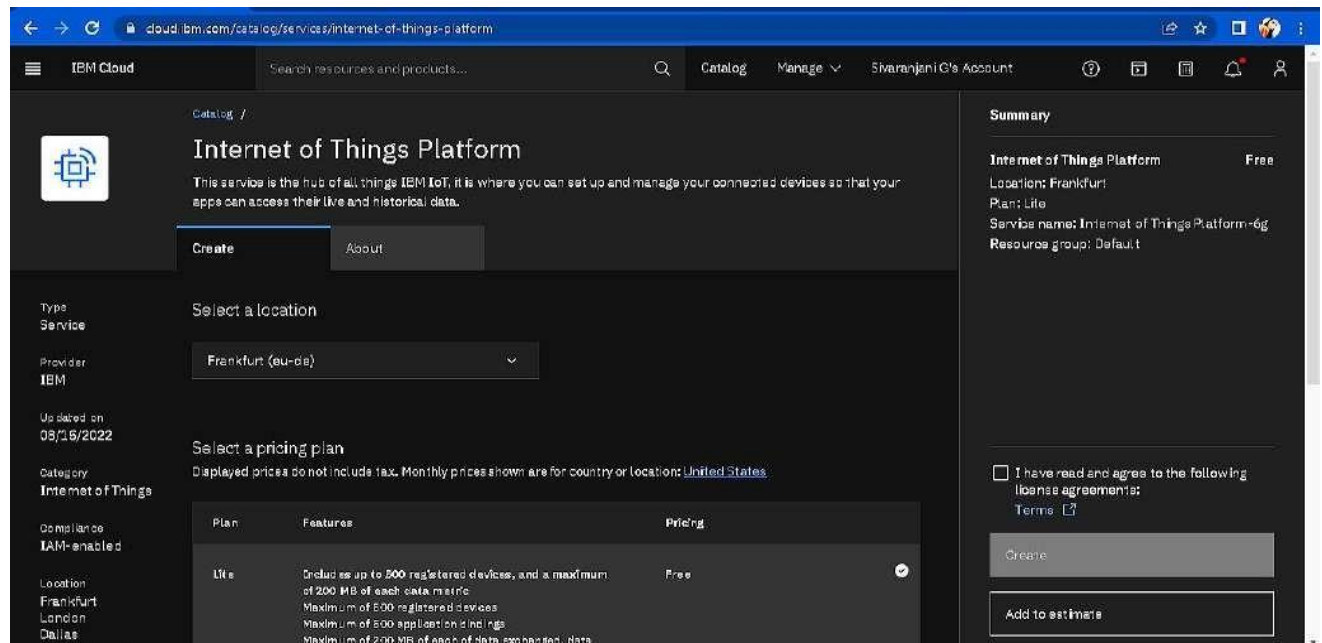
2. Home page of IBM cloud



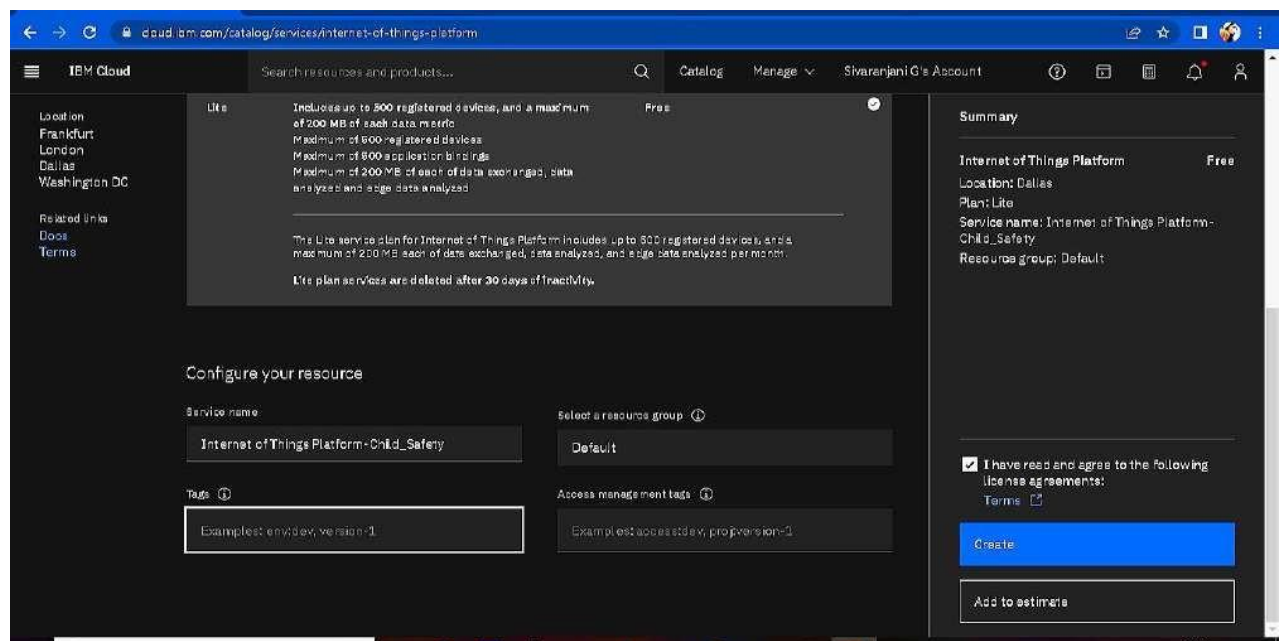
3. Click on the catalog on the top



4. Click on IoT in the category mentioned



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



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

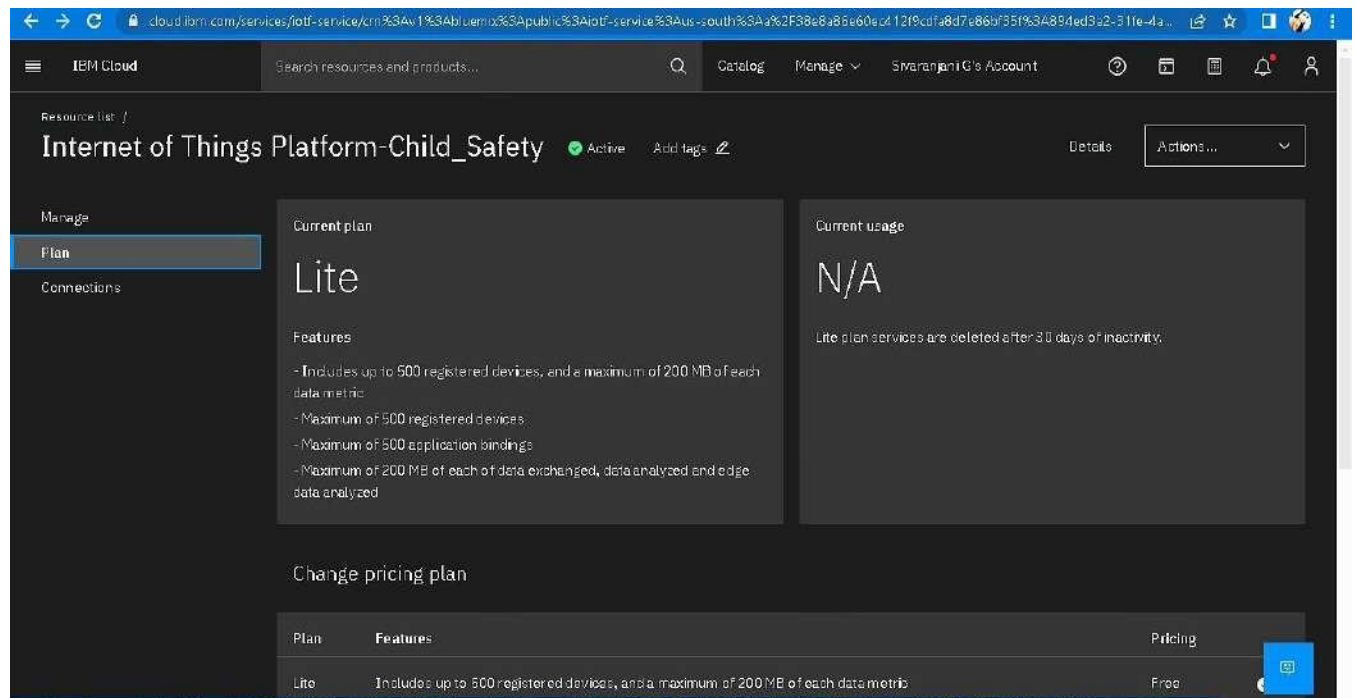
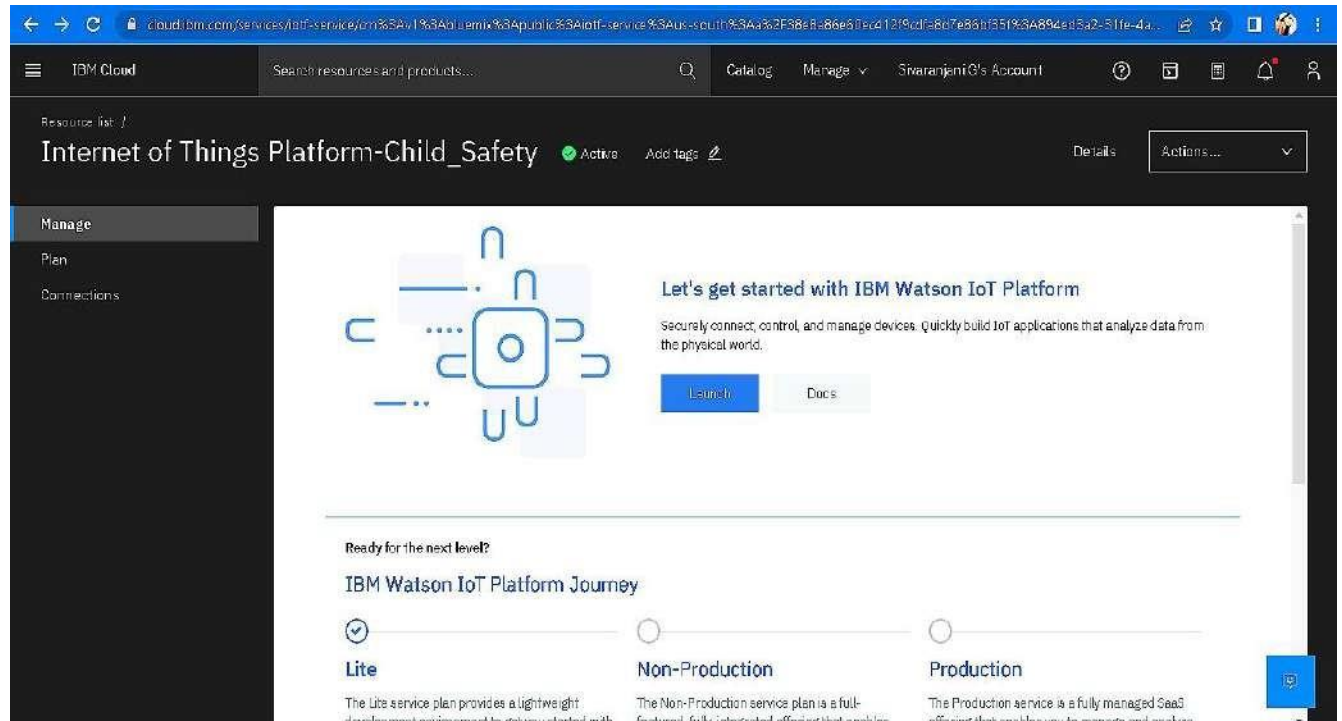
The screenshot shows the IBM Cloud 'Internet of Things Platform' configuration page. The 'Create' tab is active. Under 'Select a location', 'Frankfurt (eu-de)' is selected in the dropdown menu. The 'Select a pricing plan' section shows a table with one plan, 'Life', which is selected with a checkmark. The summary on the right shows the service name as 'Internet of Things Platform-6g' and the resource group as 'Default'. The 'I have read and agree to the following license agreements' checkbox is unchecked.

Plan	Features	Pricing
Life	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

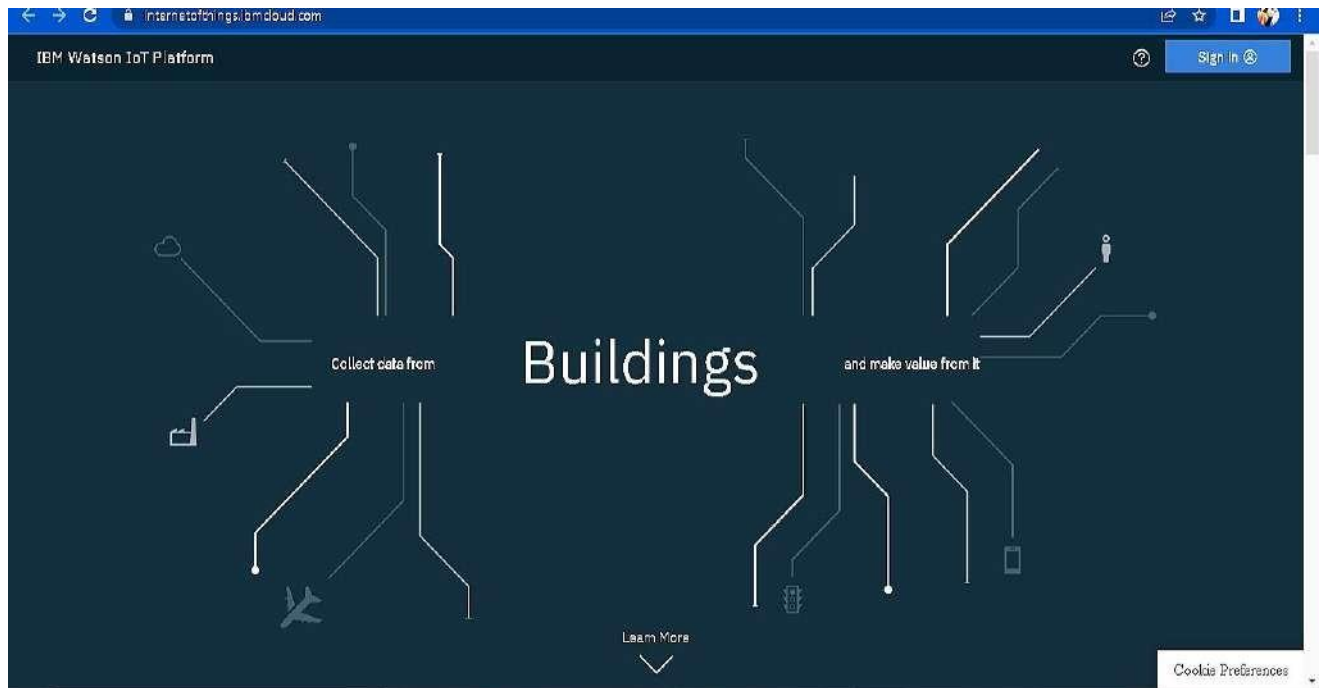
The screenshot shows the same IBM Cloud 'Internet of Things Platform' configuration page, but with 'Dallas (us-south)' selected in the location dropdown. The 'Life' pricing plan remains selected. The summary on the right now shows the location as 'Dallas' and the service name as 'Internet of Things Platform-6g'. The 'I have read and agree to the following license agreements' checkbox is now checked.

Plan	Features	Pricing
Life	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

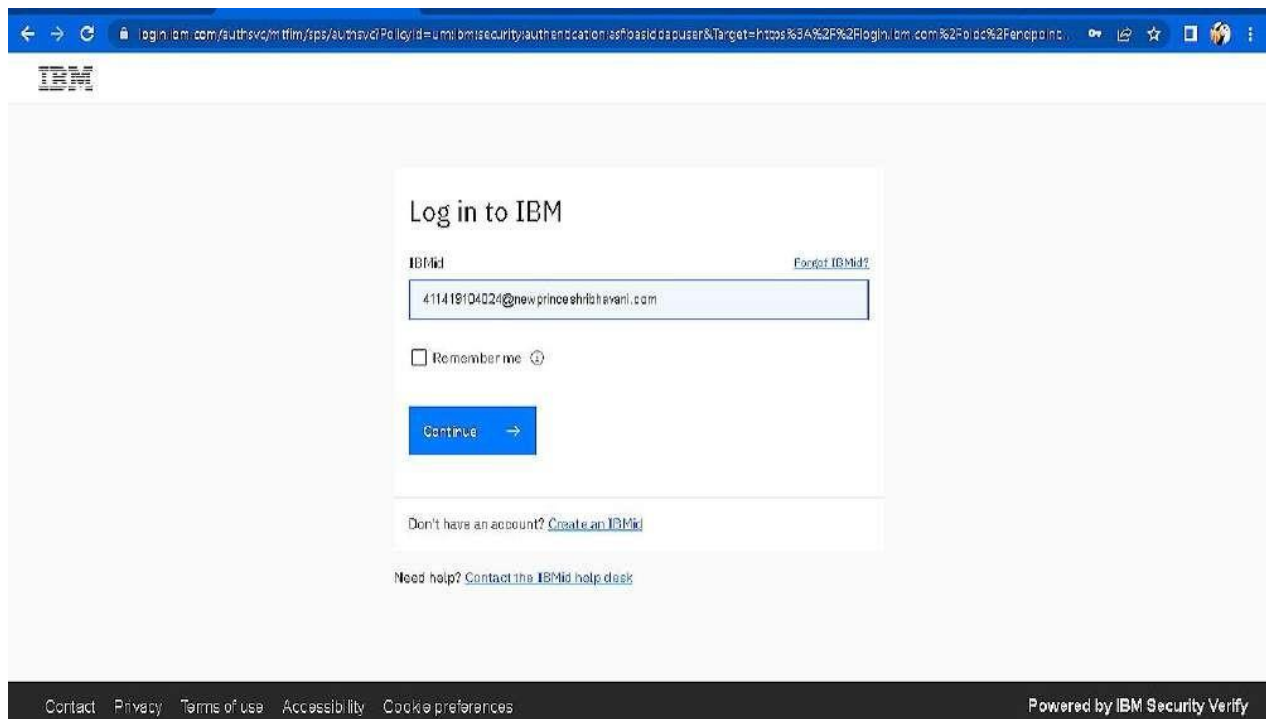
7. Internet of Things Platform Child_safety will be created, where there are different options like manage, plan, and connection (manage is for launch, Plan gives us the idea about the payment package and its upgrades, and lastly the connection is for to connect IoT with other services)



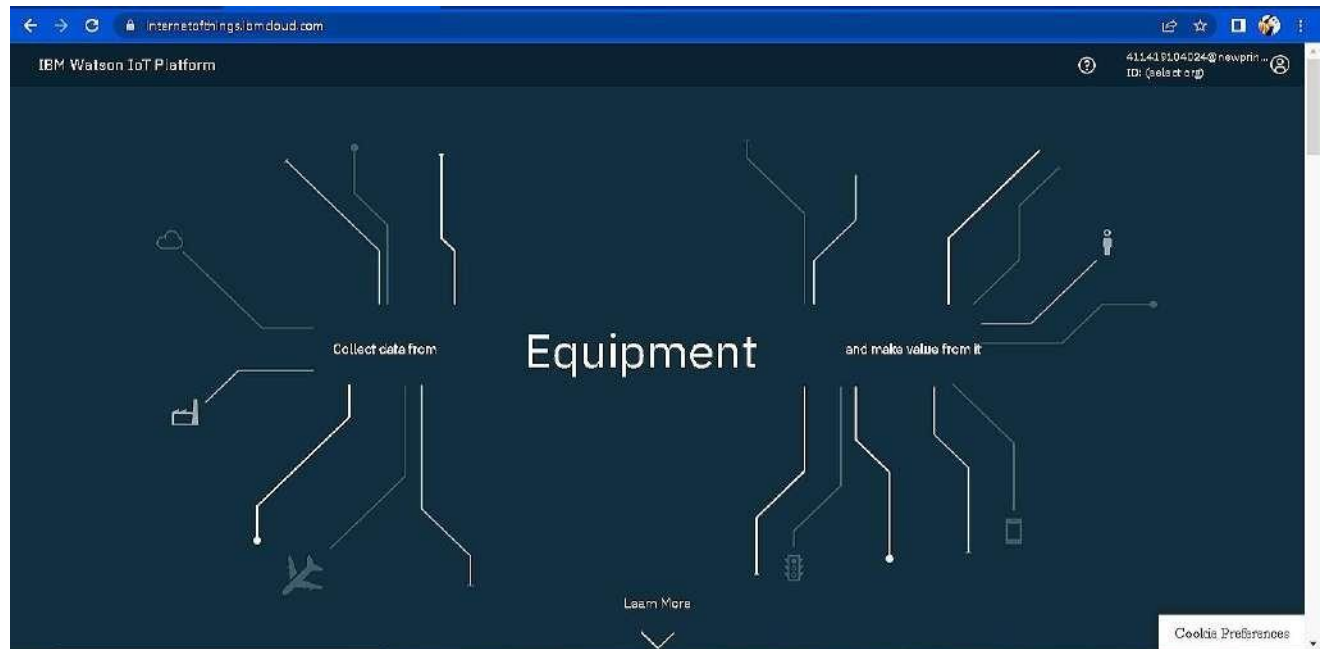
8. Clicking on the launch button in the manage tab, it will open to this



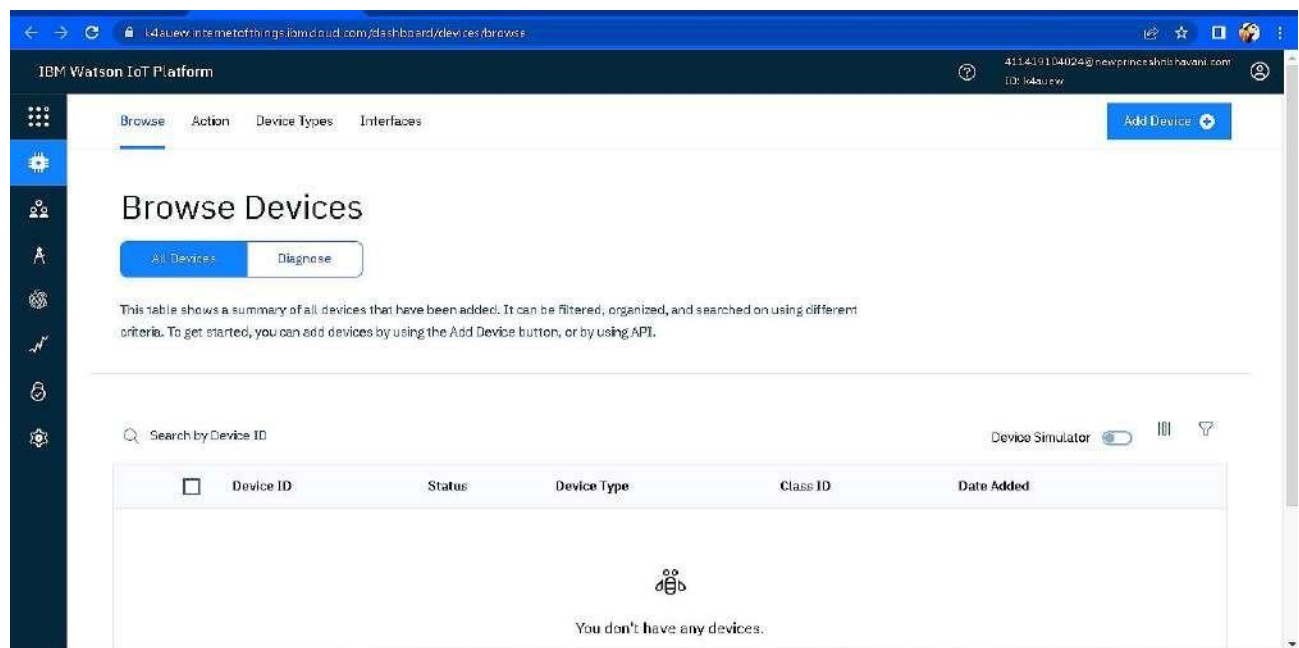
9. Enter the details to sign in to the Watson Cloud to create a device



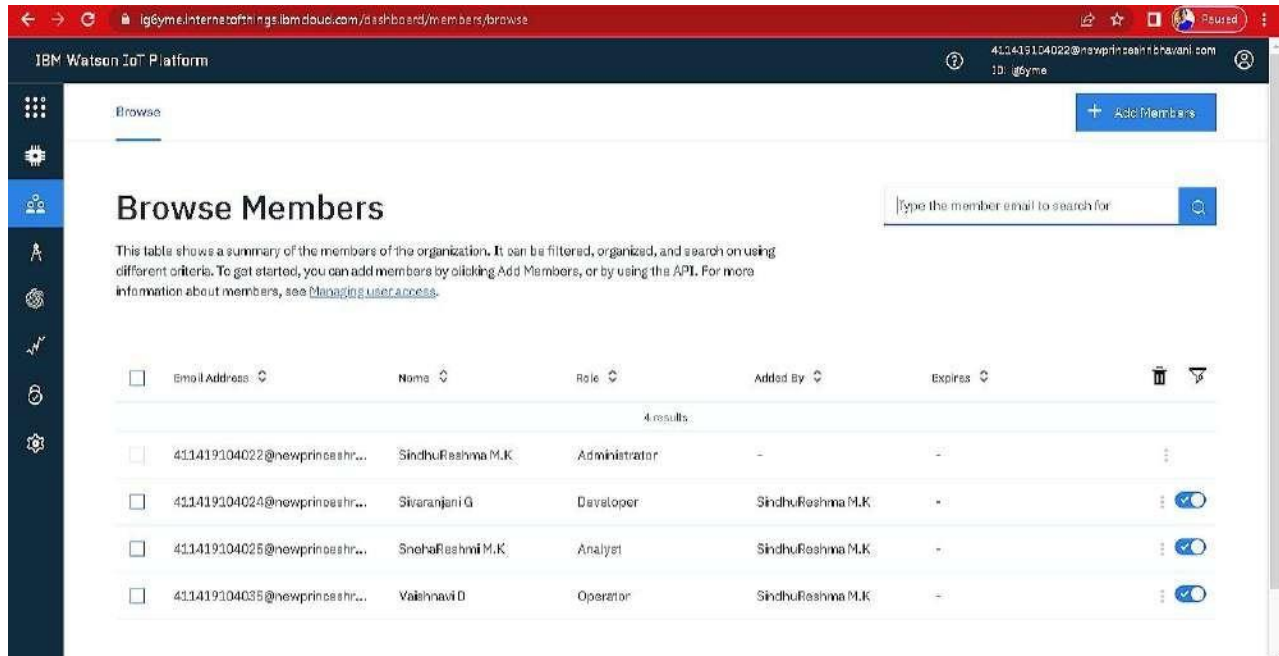
10. Once logged in the name will be displayed and it goes back to the first page



11. 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



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



IBM Watson IoT Platform

Browse

+ Add Members

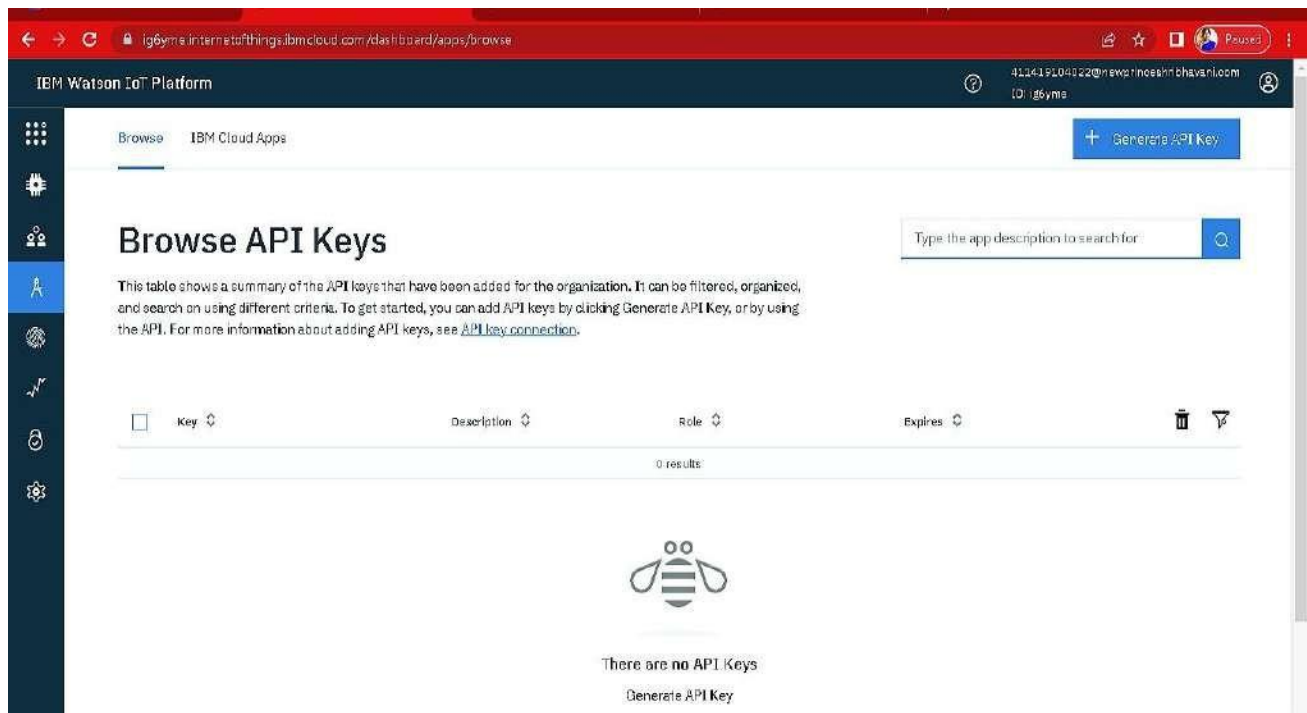
Browse Members

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	
4 results						
<input type="checkbox"/>	411419104022@newprincehr...	SindhuRashma M.K.	Administrator	-	-	
<input type="checkbox"/>	411419104024@newprincehr...	Sivaranjani G.	Developer	SindhuRashma M.K.	-	<input checked="" type="checkbox"/>
<input type="checkbox"/>	411419104025@newprincehr...	SnehaRashmi M.K.	Analyst	SindhuRashma M.K.	-	<input checked="" type="checkbox"/>
<input type="checkbox"/>	411419104035@newprincehr...	Vaishnavi D.	Operator	SindhuRashma M.K.	-	<input checked="" type="checkbox"/>

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



IBM Watson IoT Platform

Browse IBM Cloud Apps

+ 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					

There are no API Keys

Generate API Key

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

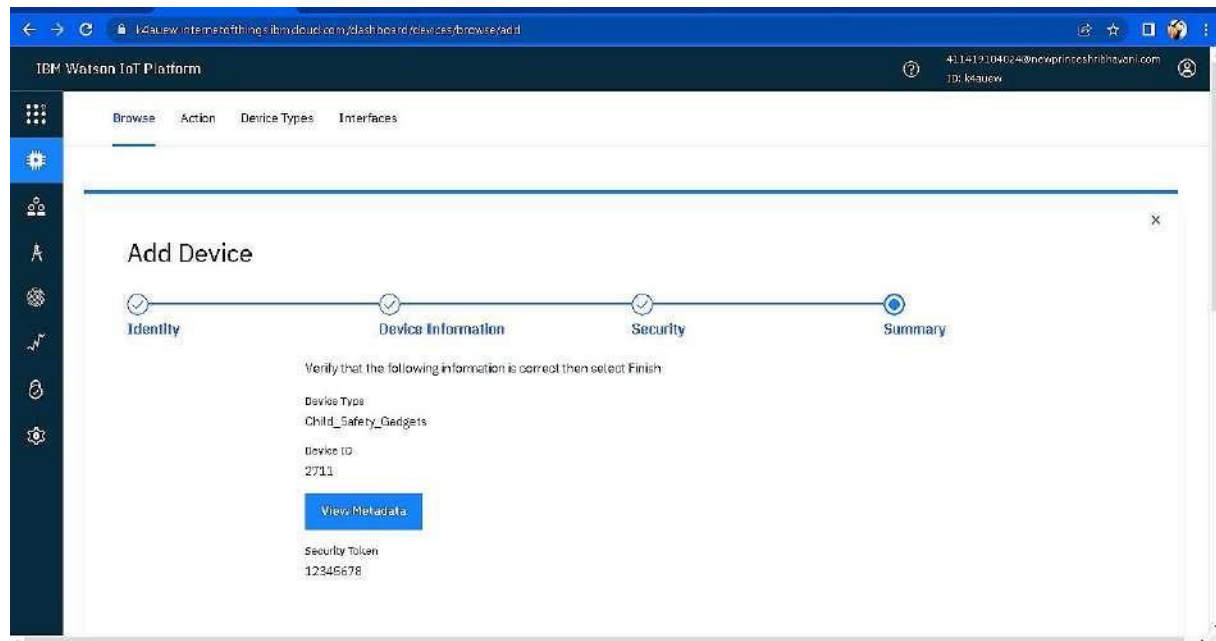
The screenshot shows the 'Add Device' page in the IBM Watson IoT Platform. The page has a dark blue header with the IBM Watson IoT Platform logo and a user profile. Below the header is a navigation bar with tabs: 'Browse', 'Action', 'Device Types', and 'Interfaces'. The 'Add Device' page is divided into four steps: 'Identity', 'Device Information', 'Security', and 'Summary'. The 'Identity' step is currently active, indicated by a blue circle and a checkmark. Below the steps, there is a text prompt: '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 a dropdown menu showing 'Select or create a device type...' and 'Device ID' with a text input field showing 'Enter Device ID'. At the bottom right, there are 'Cancel' and 'Next' buttons. Below the 'Add Device' section, there is a 'Browse Devices' section with 'All Devices' and 'Diagnose' buttons.

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

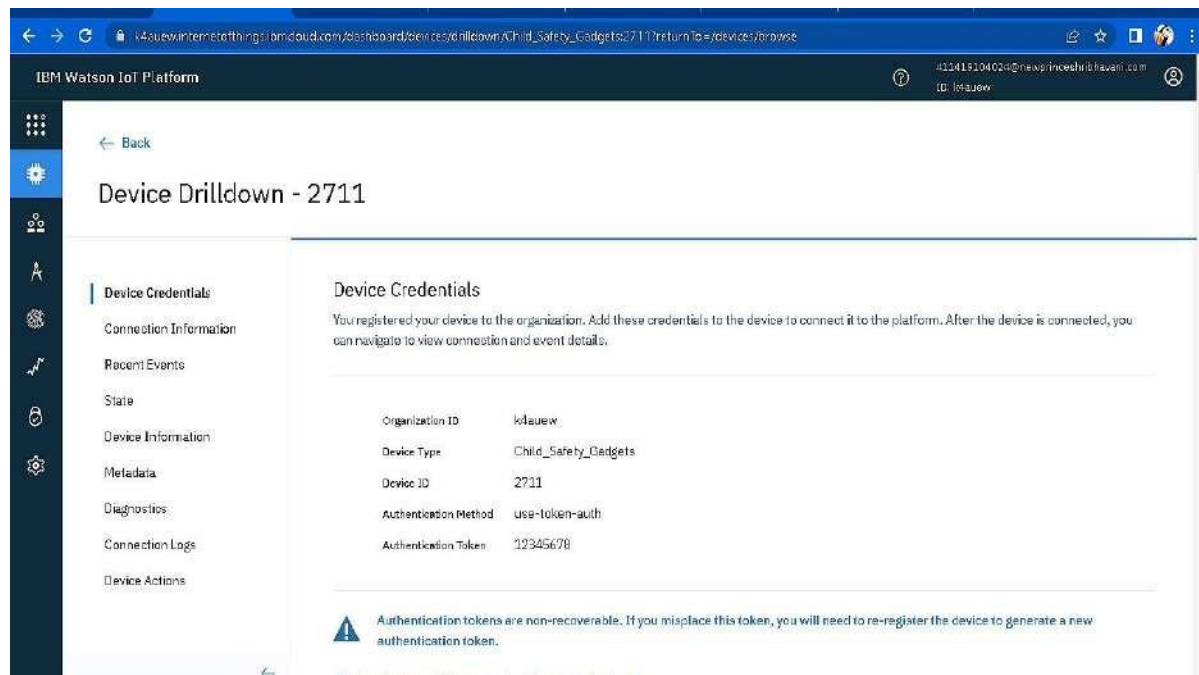
The screenshot shows the 'Add Device' page in the IBM Watson IoT Platform, specifically the 'Device Information' step. The 'Identity' step is now completed, indicated by a checkmark. The 'Device Information' step is active, indicated by a blue circle. Below the steps, there is a text prompt: 'You can modify the default device information and enter more information about the device for identification purposes.' There are two columns of input fields. The left column contains: 'Serial Number' (text input), 'Model' (text input), 'Description' (text input), and 'Hardware Version' (text input). The right column contains: 'Manufacturer' (text input), 'Device Class' (text input), 'Firmware Version' (text input), and 'Descriptive Location' (text input). Below the input fields, there is an 'Add Metadata' button with a plus icon. At the bottom right, there are 'Back' and 'Next' buttons.

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

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



18. 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.

19. 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.

IBM Watson IoT Platform

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
2711	Disconnected	Child_Safety_Gadgets	Device	Oct 30, 2022 9:00 PM

Items per page 50 | 1-1 of 1 item

1 of 1 page

IBM Watson IoT Platform

Browse Action Device Types Interfaces

Add Device +

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
2711	Disconnected	Child_Safety_Gadgets	Device	Oct 30, 2022 9:00 PM

Identity Device Information Recent Events State Logs

Device ID 2711

Device Type Child_Safety_Gadgets

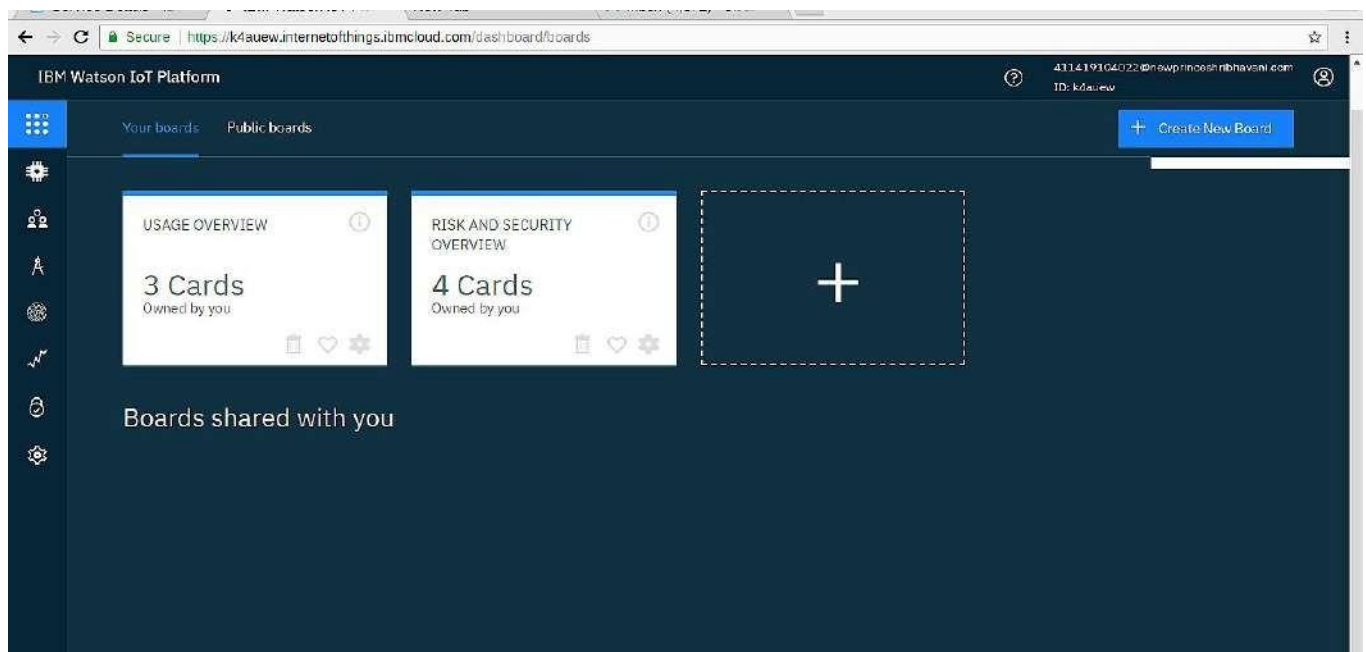
Date Added Oct 30, 2022 9:00 PM

Added By 411419104024@newprinceshribhavani.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

TEAM ID : PNT2022TMID37924
TEAM LEADER : M. K. SINDHU RESHMA
TEAM MEMBER 1 : G.SIVARANJANI
TEAM MEMBER 2 : M. K.SNEHA RESHMA
TEAM MEMBER 3 : D. VAISHNAVI
TEAM SIZE : 4

MENTOR : G. SIMI MARGARET