

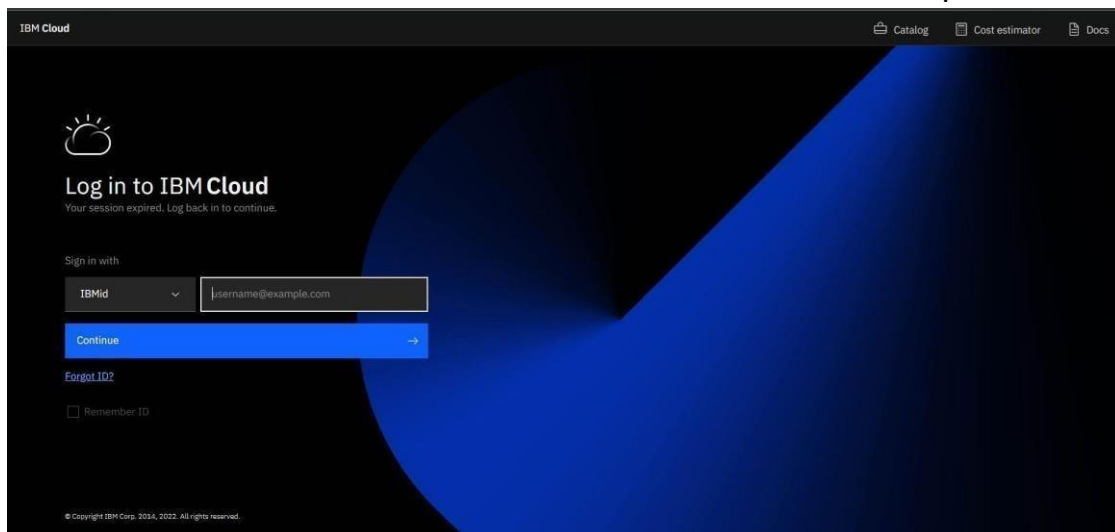
CREATE IBM WATSON IOT PLATFORM AND DEVICE

Project name	lot Based Smart Crop Protection System for Agriculture
Team ID	PNT2022TMID24163

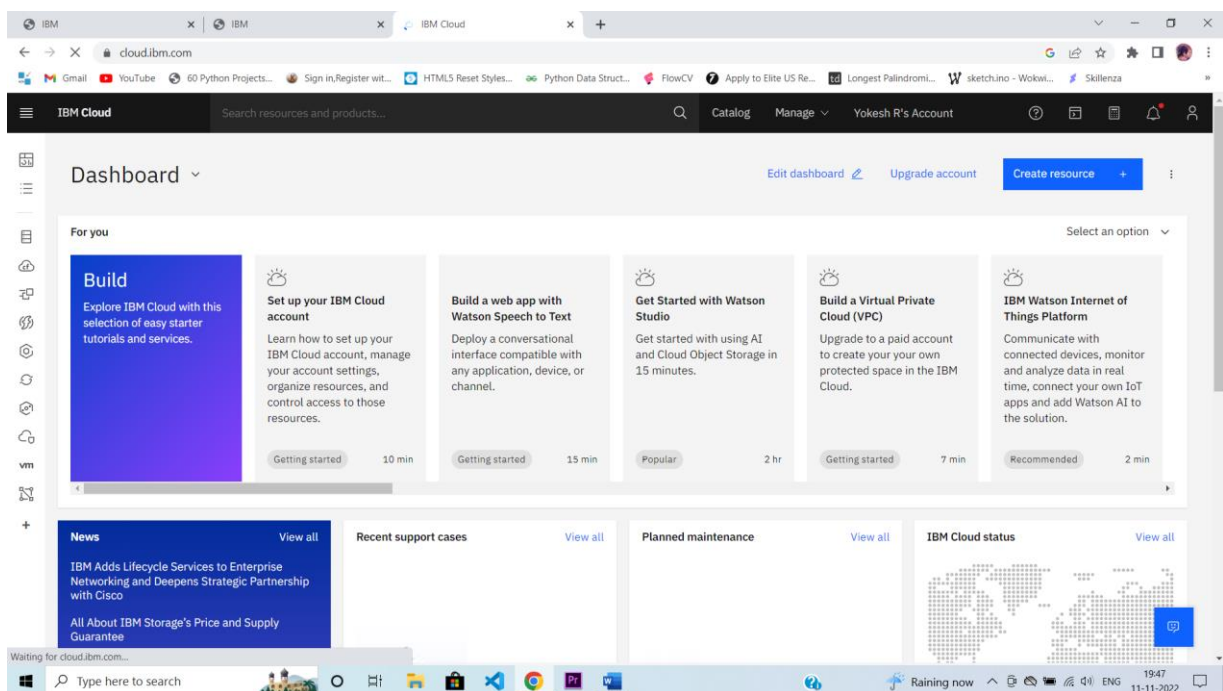
To create the IBM Watson IOT platform and device

STEPS:

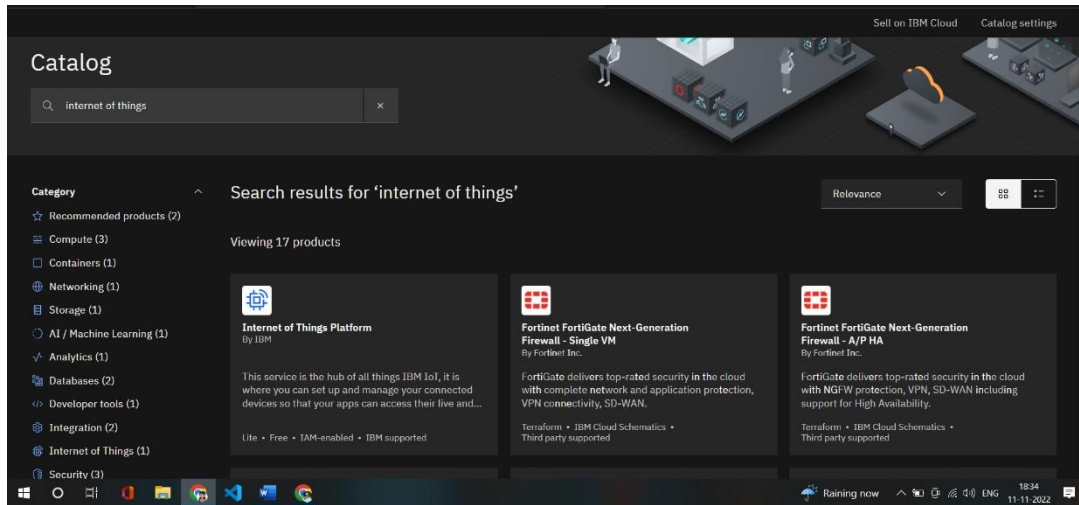
1. create an IBM cloud account with the individual IBM id and password



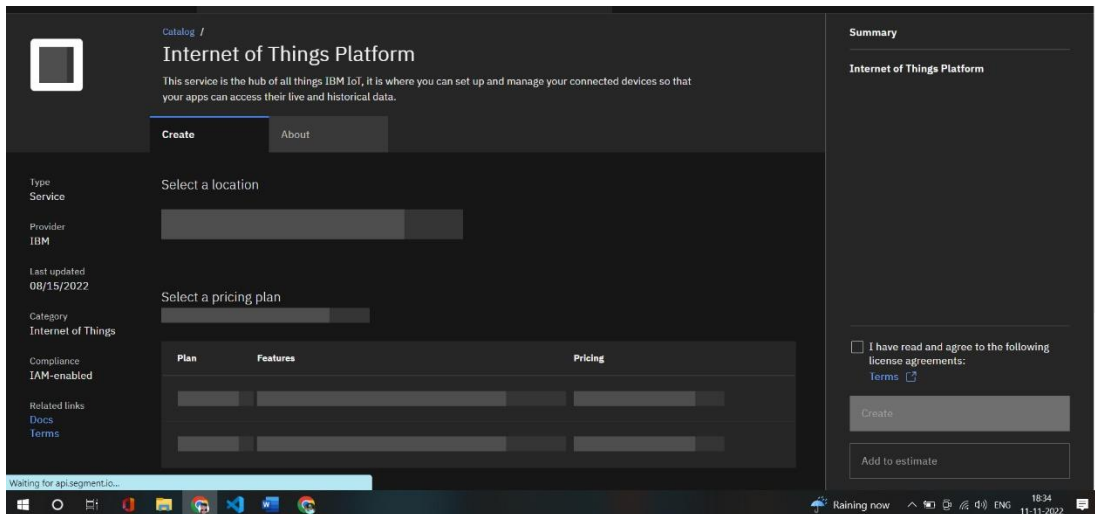
2. Home page of IBM cloud



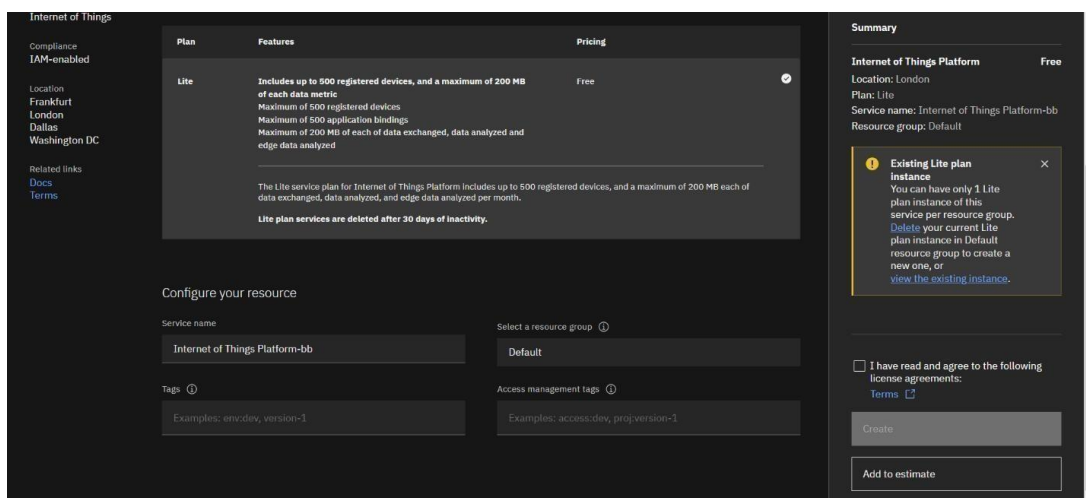
3. Click on the catalog on the top



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 agreements and then click on create

The screenshot shows the 'Internet of Things Platform' page in the IBM Cloud Catalog. The left sidebar contains navigation links: Type (Service), Provider (IBM), Updated on (08/15/2022), Category (Internet of Things), Compliance (IAM-enabled), Location (Frankfurt, London, Dallas, Washington DC), and Related links (Docs, Terms). The main content area has two tabs: 'Create' (active) and 'About'. Under 'Create', there are two sections: 'Select a location' with a dropdown menu showing 'Dallas (us-south)', and 'Select a pricing plan' with a table of plans. The table has columns for Plan, Features, and Pricing. The 'Lite' plan is selected, showing features like up to 500 registered devices and 200 MB of data metric, and a pricing of 'Free'. A summary panel on the right shows the service name 'Internet of Things Platform', location 'Dallas', plan 'Lite', and service name 'Internet of Things Platform-2w'. It also includes a warning about existing Lite plan instances and a checkbox for license agreements. At the bottom, there are 'Create' and 'Add to estimate' buttons.

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

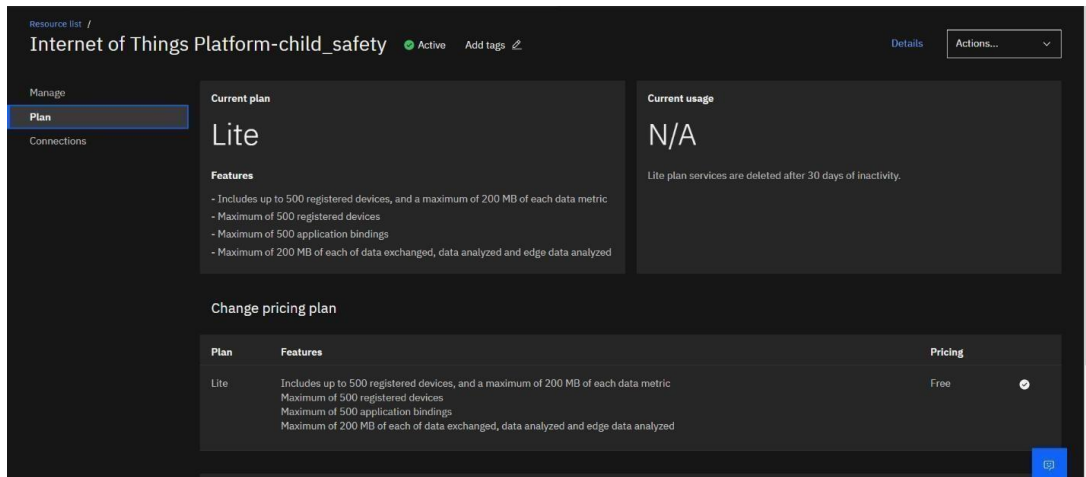
The screenshot shows the 'Configure your resource' page for 'Internet of Things Platform-child_safety'. The left sidebar is similar to the previous page, but the location is set to 'London'. The main content area has a 'Plan' section with a table showing the 'Lite' plan. Below this is a 'Configure your resource' section with fields for 'Service name' (set to 'Internet of Things Platform-child_safety'), 'Tags' (with examples like 'emc:dev, version-1'), 'Select a resource group' (set to 'Default'), and 'Access management tags' (with examples like 'access:dev, proj:version-1'). A summary panel on the right shows the service name 'Internet of Things Platform', location 'London', plan 'Lite', and service name 'Internet of Things Platform-child_safety'. It includes a checkbox for license agreements, which is checked. At the bottom, there are 'Create' and 'Add to estimate' buttons.

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

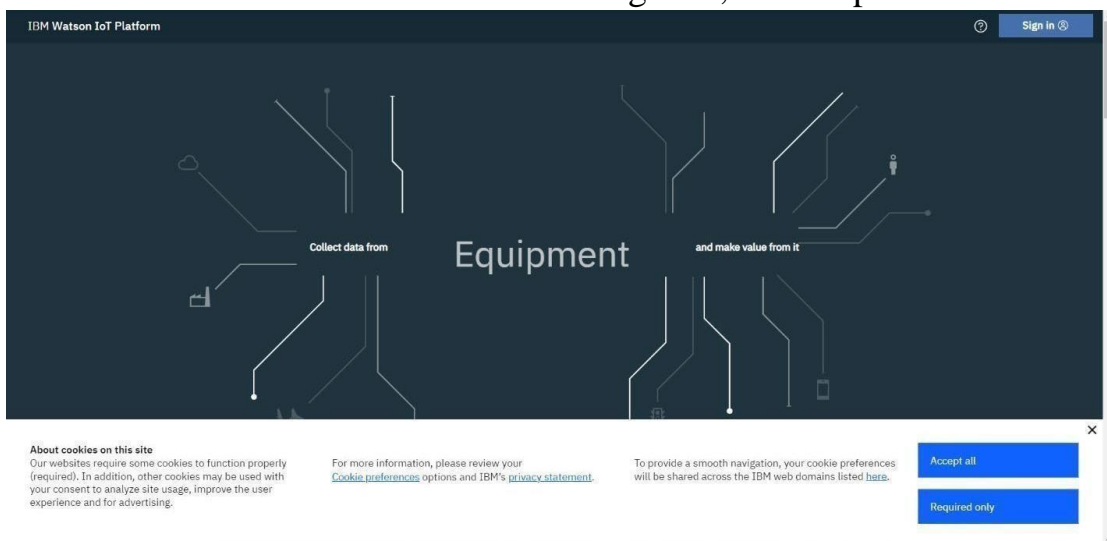
7. Internet of Things Platform Child_safety will be created, where there are different options like manage, plan, and connection

The screenshot shows the 'Manage' page for 'Internet of Things Platform-child_safety'. The left sidebar has a 'Manage' tab selected, with sub-tabs for 'Plan' and 'Connections'. The main content area has a header with the resource name, status 'Active', and links for 'Details' and 'Actions...'. Below this is a 'Let's get started with IBM Watson IoT Platform' section with a 'Launch' button. A 'Ready for the next level?' section shows the 'IBM Watson IoT Platform Journey' with three stages: 'Lite' (selected), 'Non-Production', and 'Production'. Each stage has a description and a 'Free' or 'Starts at \$500 per month' label. At the bottom right, there is a chat icon.

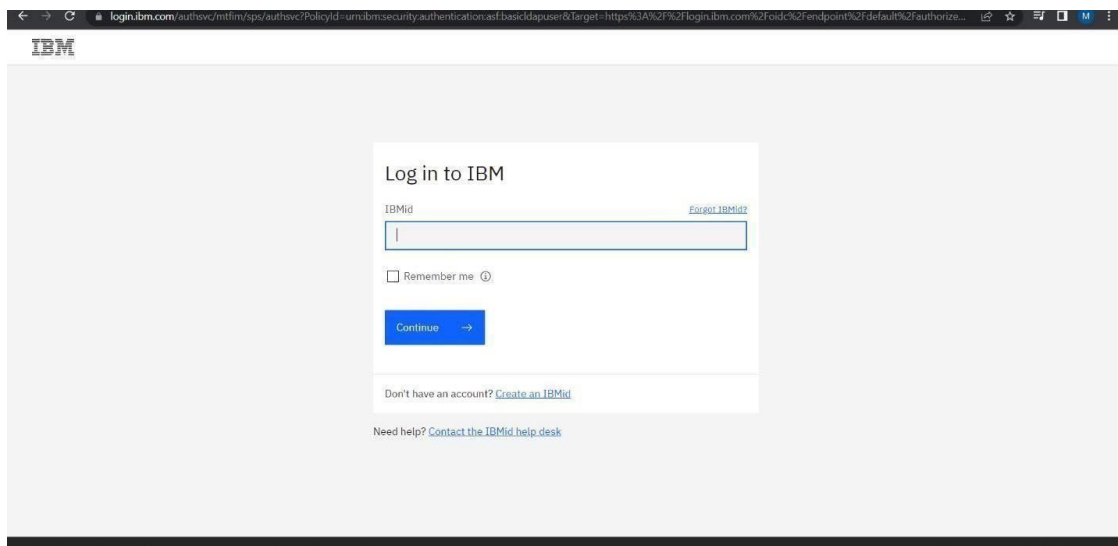
8. Manage is for launch, plan gives us the idea about the payment package and its upgrades, and lastly the connection is for to connect IOT with other services



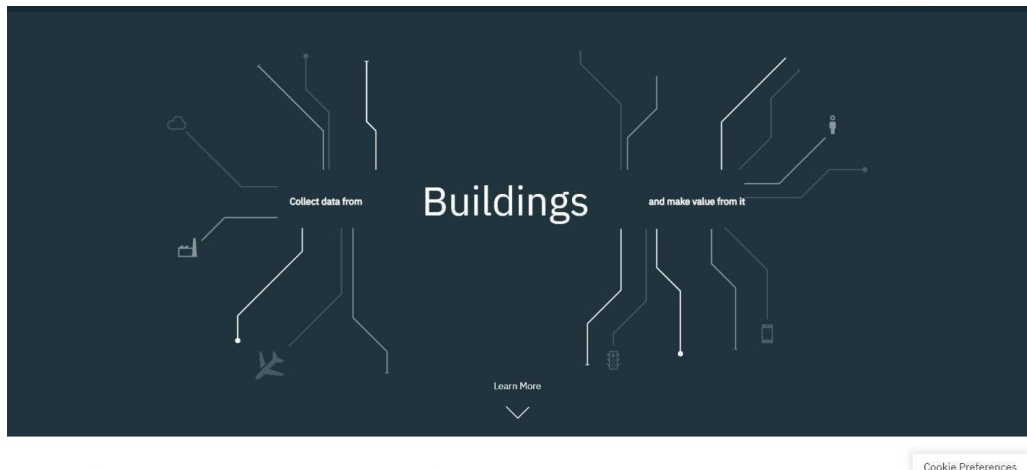
9. Click on the launch button in the manage tab, it will open to this device



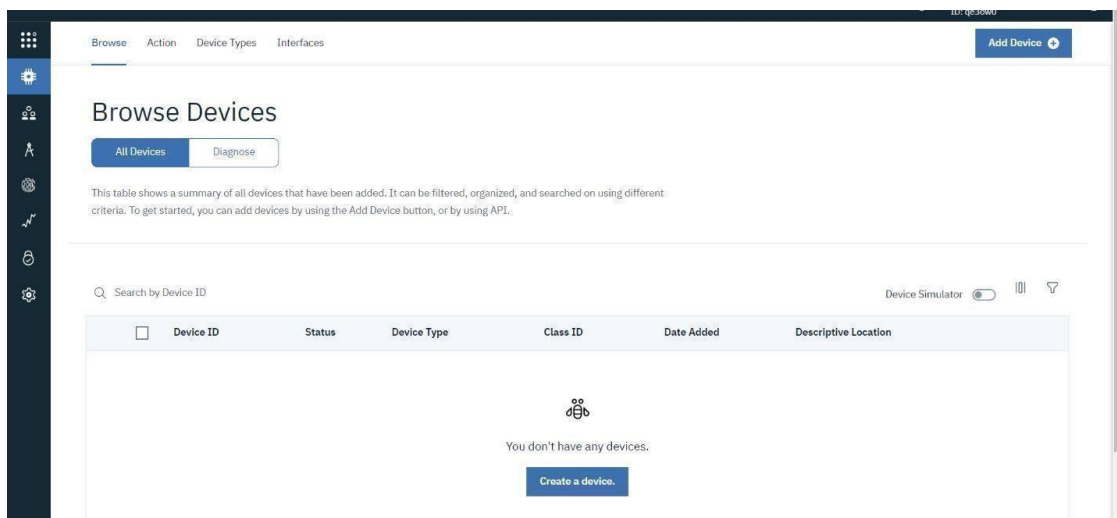
10. Enter the details to sign in to the Watson Cloud to create a device



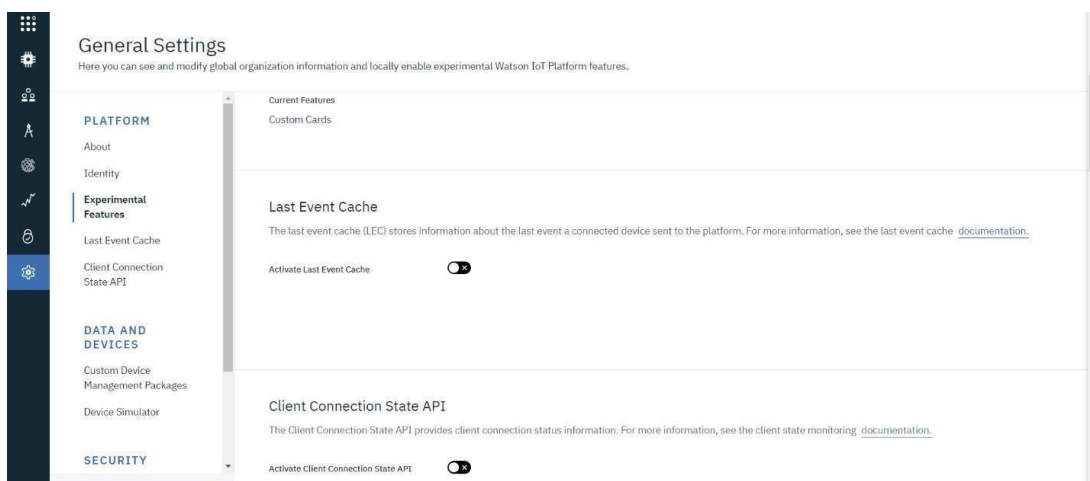
11. Once logged in the name will be displayed and it goes back to the first page



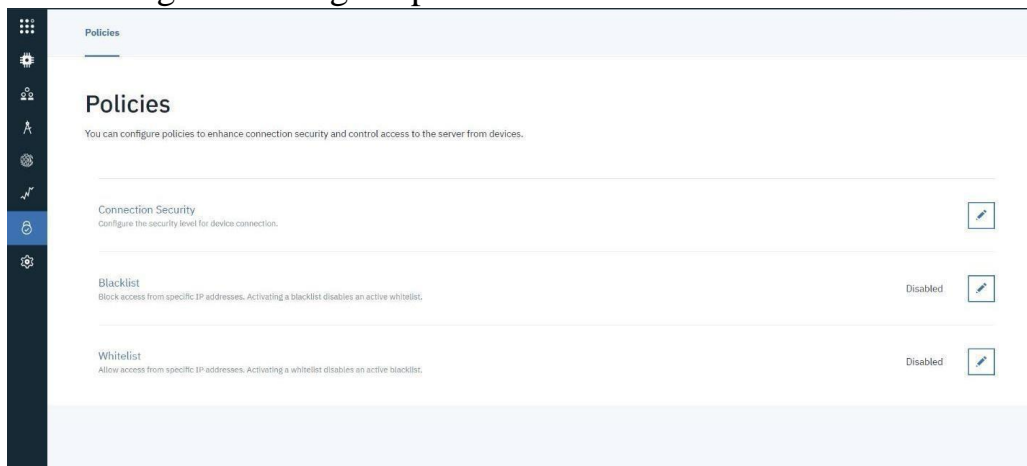
12. And again clicking on the launch button will open this tab, the device will help in the creation of the devices, the addition of devices, and the display of details of the devices.



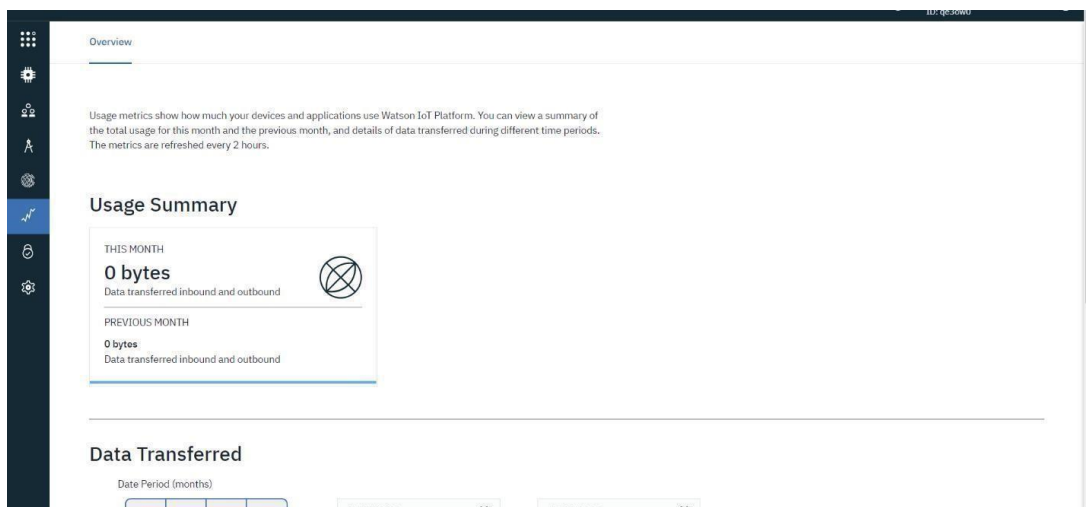
13. The setting tab is used to change the general setting if needed for the project.



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



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

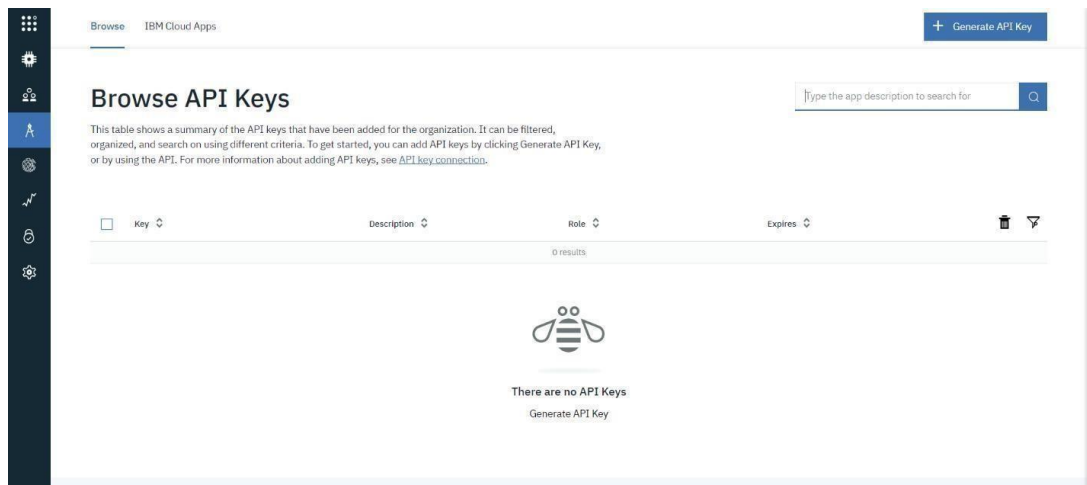


15. The member tab is add the teams members to work in the platform

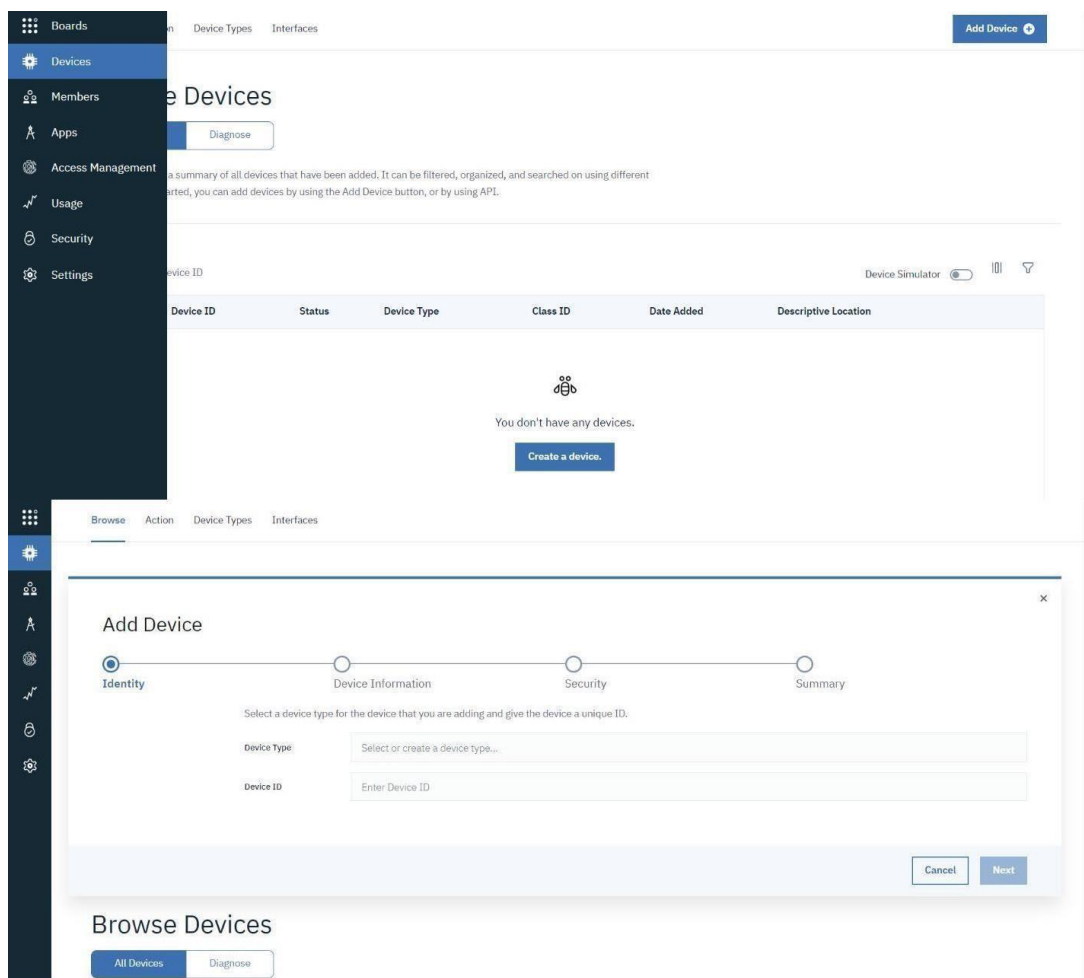
The screenshot shows the 'Browse Members' page in the Watson IoT Platform. The page has a dark sidebar with icons for various functions. The main content area is titled 'Browse Members' and includes a sub-header 'This table shows a summary of the members of the organization. It can be filtered, organized, 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](#).' Below this, there is a table of members:

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

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



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



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

The screenshot shows the 'Add Device' form with the 'Device Information' step selected. The form includes fields for Serial Number, Model, Description, Hardware Version, Manufacturer, Device Class, Firmware Version, and Descriptive Location. A 'Back' button is at the bottom left, and a 'Next' button is at the bottom right.

18. This page is used to enter extra details and of the hardware.

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

The screenshot shows the 'Add Device' form with the 'Security' step selected. It presents two options for selecting a device authentication token: 'Auto-generated authentication token (default)' and 'Self-provided authentication token'. The 'Auto-generated' option is selected, and a generated token '1997199520012005' is displayed. A 'Back' button is at the bottom left, and a 'Next' button is at the bottom right.

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

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

The screenshot shows the 'Add Device' form with the 'Summary' step selected. It displays a summary of the device information entered in the previous steps, including Device Type (NodeMCU), Device ID (199795), and Security Token (1997199520012005). A 'Back' button is at the bottom left, and a 'Finish' button is at the bottom right.

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

The device credentials will be displayed with all the details

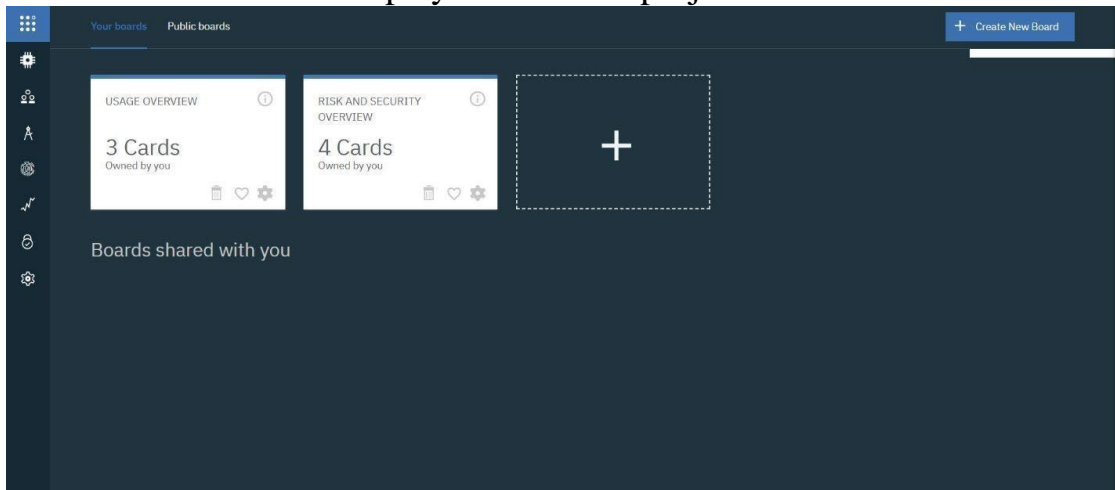
Safe the details of the device as the authentication tokens are non recoverable and if misplaced then we have to create a new one.

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

21. The Boards will display card for the project.



CONCLUSION:

An IBM Watson cloud for IoT and a device is created