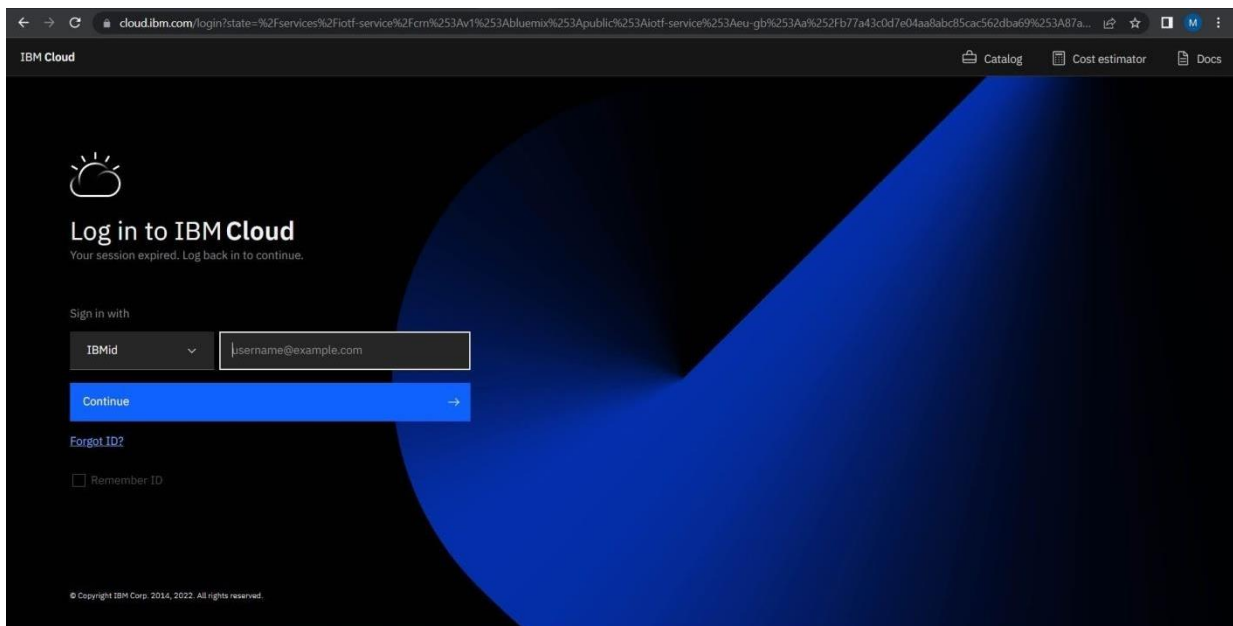


CREATE IBM WATSON IOT PLATFORM AND DEVICE

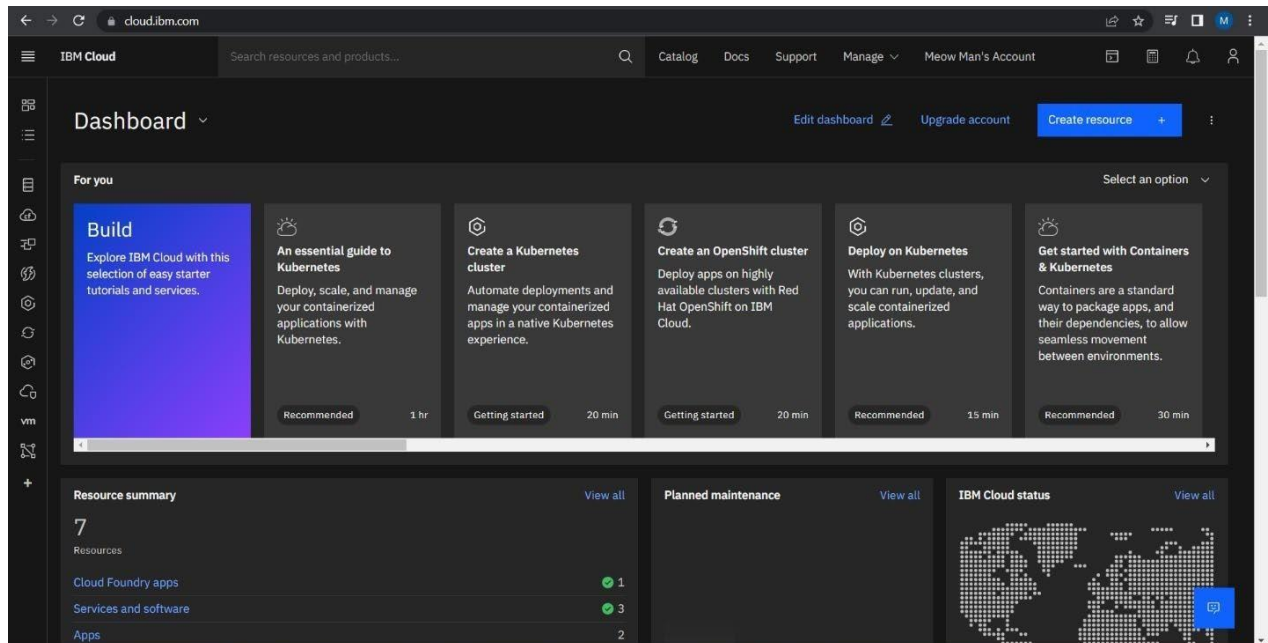
Date	29-10-2022
Team ID	PNT2022TMID18238
Project Name	Project - IOT based safety gadget for child safety monitoring and notification
Maximum Marks	4 Marks
Submitted By	Shabna R

STEPS:

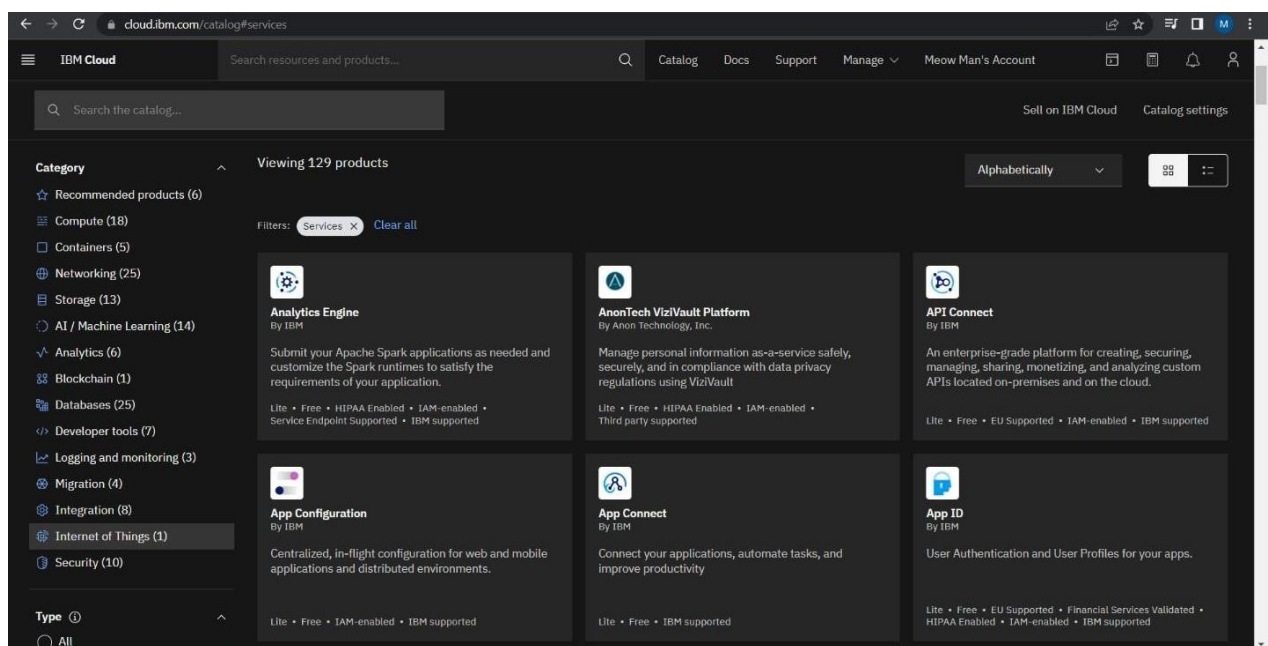
1. Firstly create an IBM cloud account with IBM id and password



2. Home page of IBM cloud



3. 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 'Dallas (us-south)' selected. Below this is a 'Select a pricing plan' section with a table of available plans. The 'Lite' plan is selected, showing features like up to 500 registered devices and 200 MB of data metric, and a 'Free' pricing. A summary panel on the right shows the selected location and plan, along with a warning about existing Lite plan instances. A '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

4. 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 summary panel on the right shows the selected location and plan, along with a warning about existing Lite plan instances. A '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

5. 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

cloud.ibm.com/catalog/services/internet-of-things-platform

IBM Cloud

Search resources and products...

Catalog Docs Support Manage Meow Man's Account

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

cloud.ibm.com/catalog/services/internet-of-things-platform

IBM Cloud

Search resources and products...

Catalog Docs Support Manage Meow Man's Account

Internet of Things

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

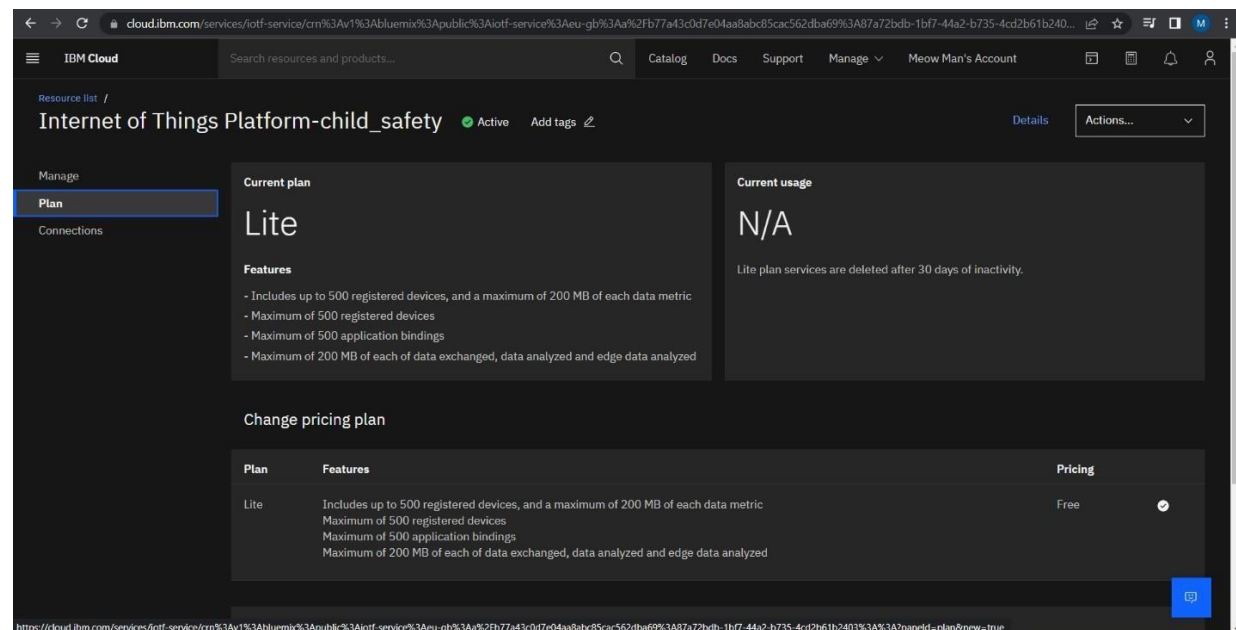
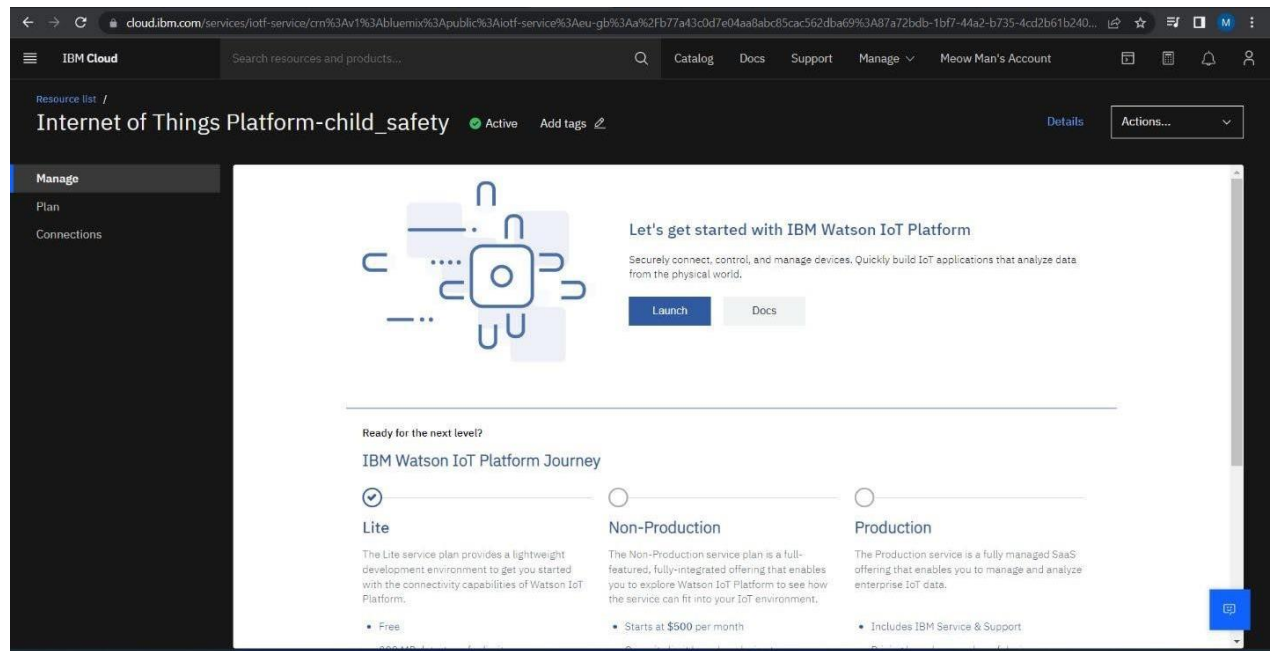
Resource group: Default

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

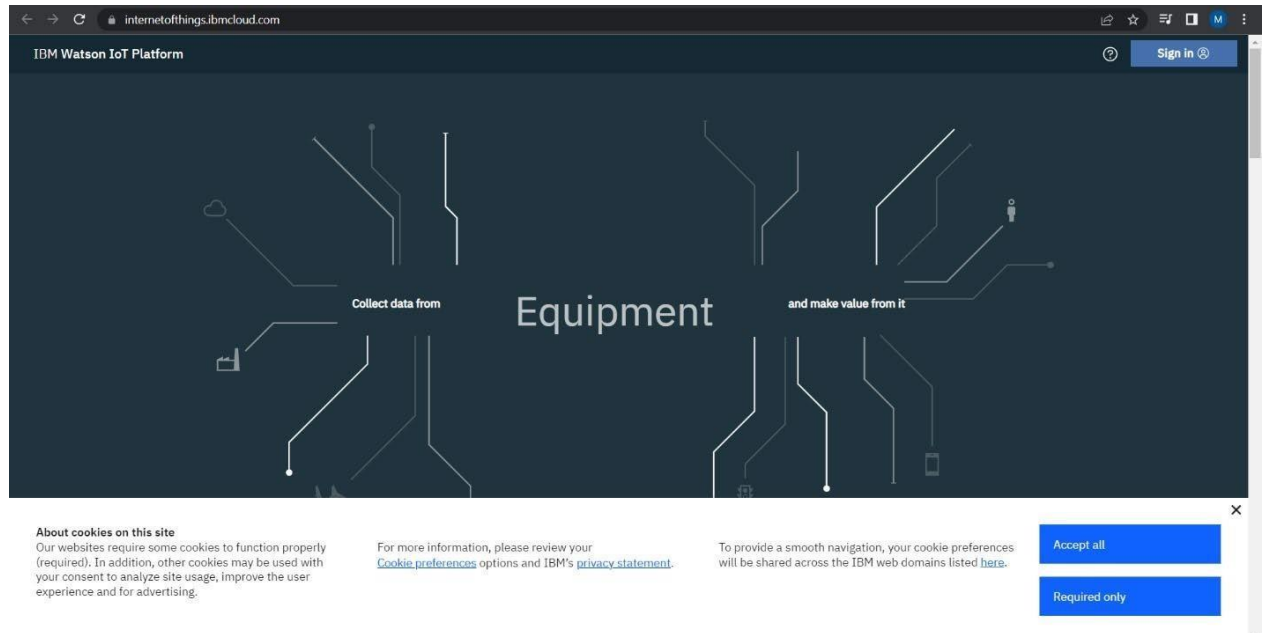
Create

Add to estimate

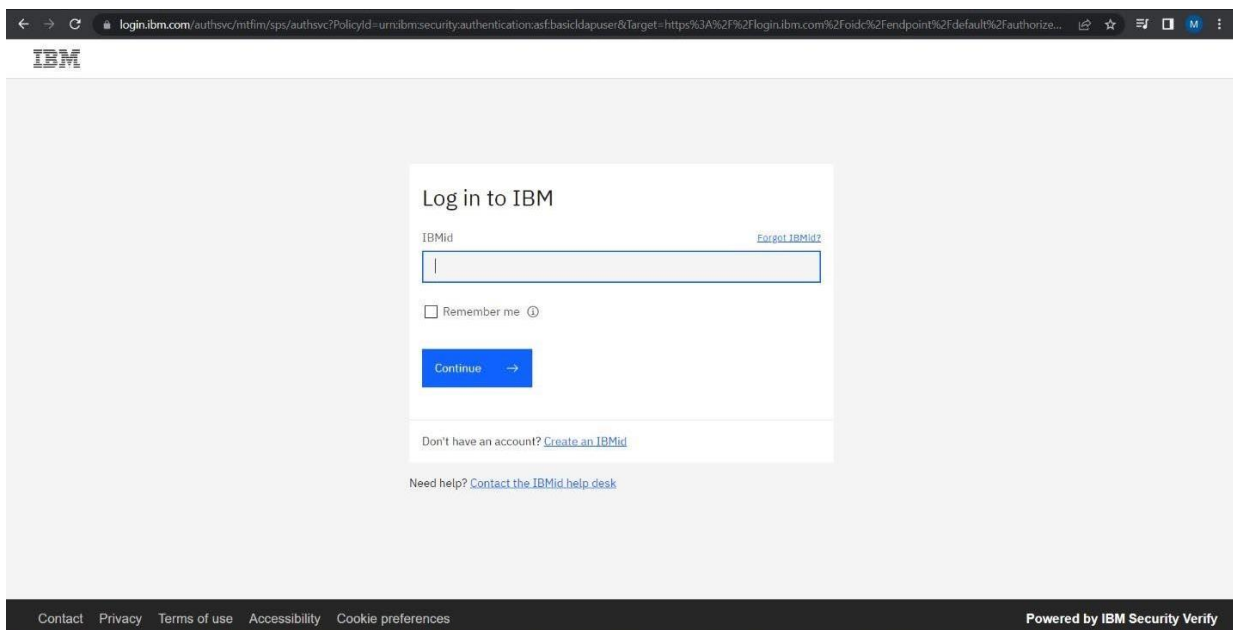
6. Internet of Things Platform Child safety will be created, where there are different options like manage, plan, and connection (manage is for launch, Plan gives us the idea about the payment package and its upgrades, and lastly the connection is for to connect IoT with other servies)



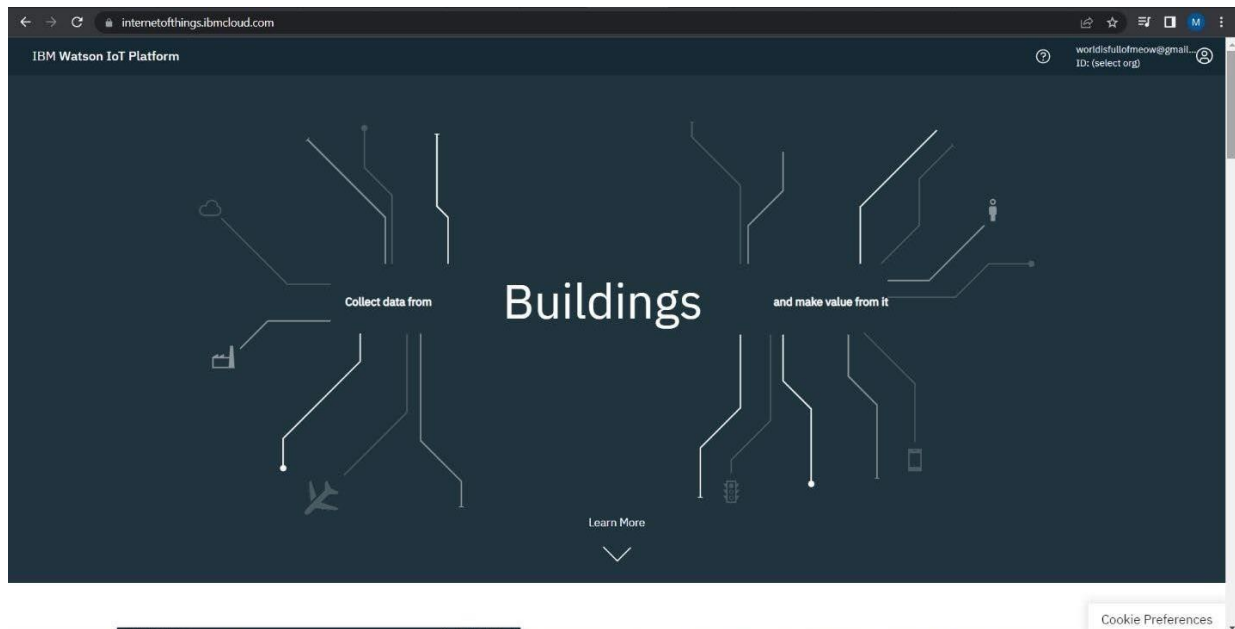
Clicking on the launch button in the manage tab, it will open to this



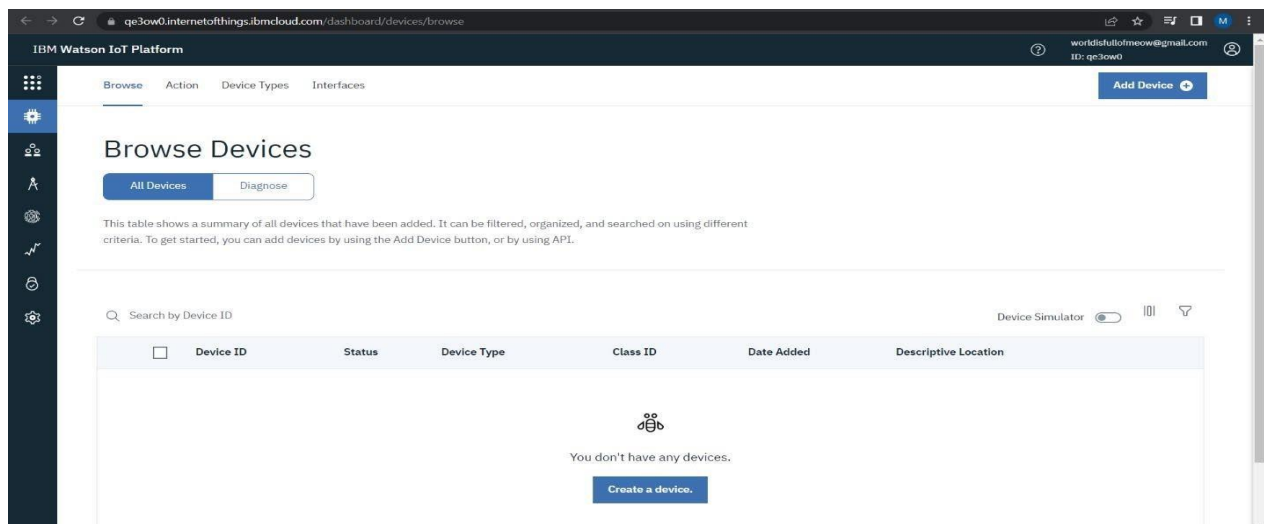
8. Enter the details to sign in to the Watson Cloud to create a device



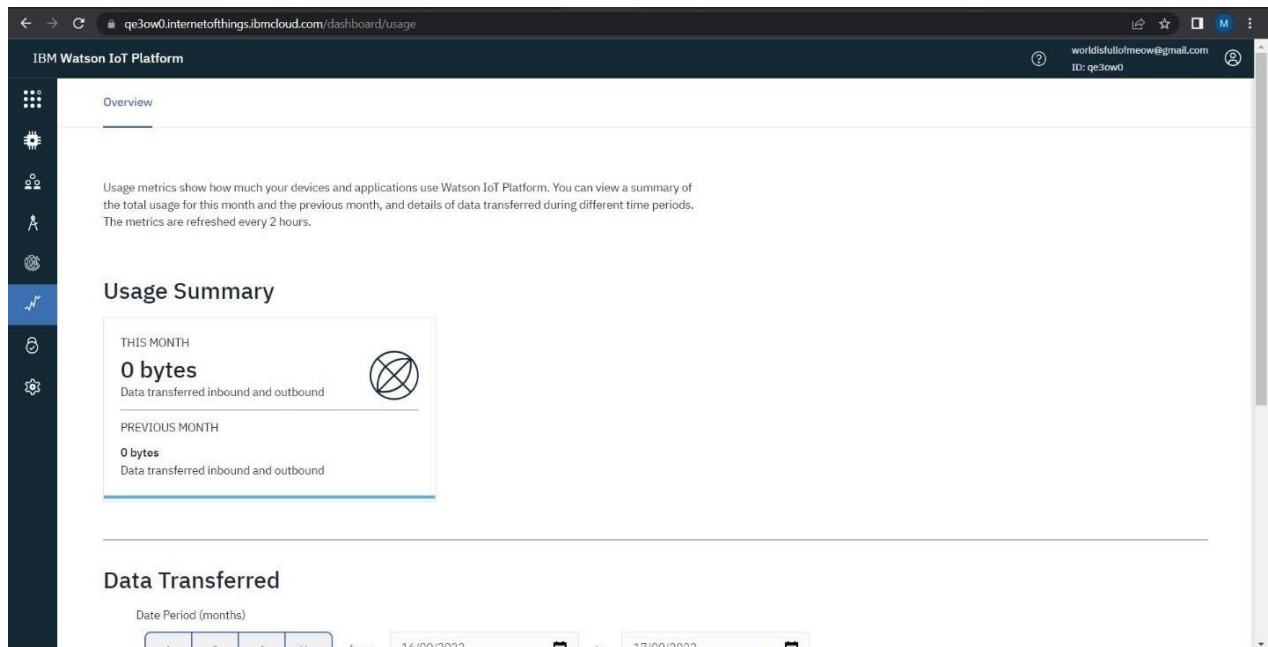
9. Once logged in the name will be displayed and it goes back to the first page



10. 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



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



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

The screenshot shows the 'Browse Members' page in the IBM Watson IoT Platform. The page title is 'Browse Members'. Below the title, there is a search bar with the placeholder text 'Type the member email to search for'. Below the search bar, there is a table showing the members of the organization. The table has columns for 'Email Address', 'Name', 'Role', 'Added By', and 'Expires'. There is one member listed: 'worldisfullofmeow@gmail.com' with the role 'Administrator'. The page includes a sidebar with navigation icons and a top header with the user's email and ID. The URL in the browser is 'qe3ow0.internetofthings.ibmcloud.com/dashboard/members/browse'.

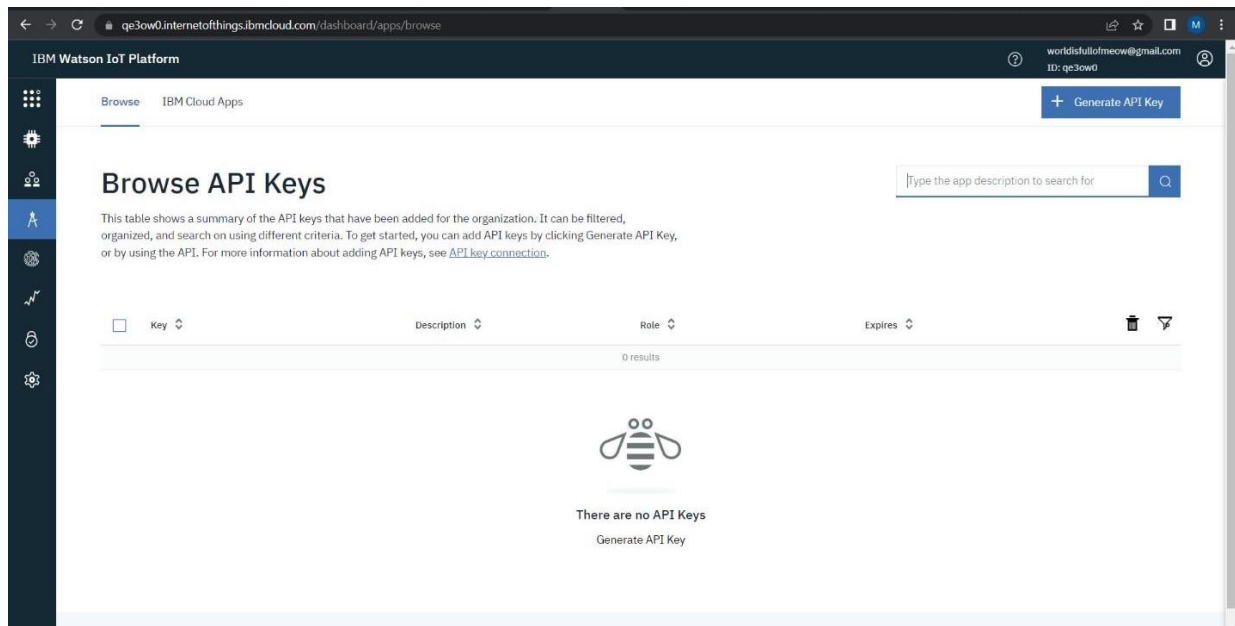
Browse Members

Type the member email to search for

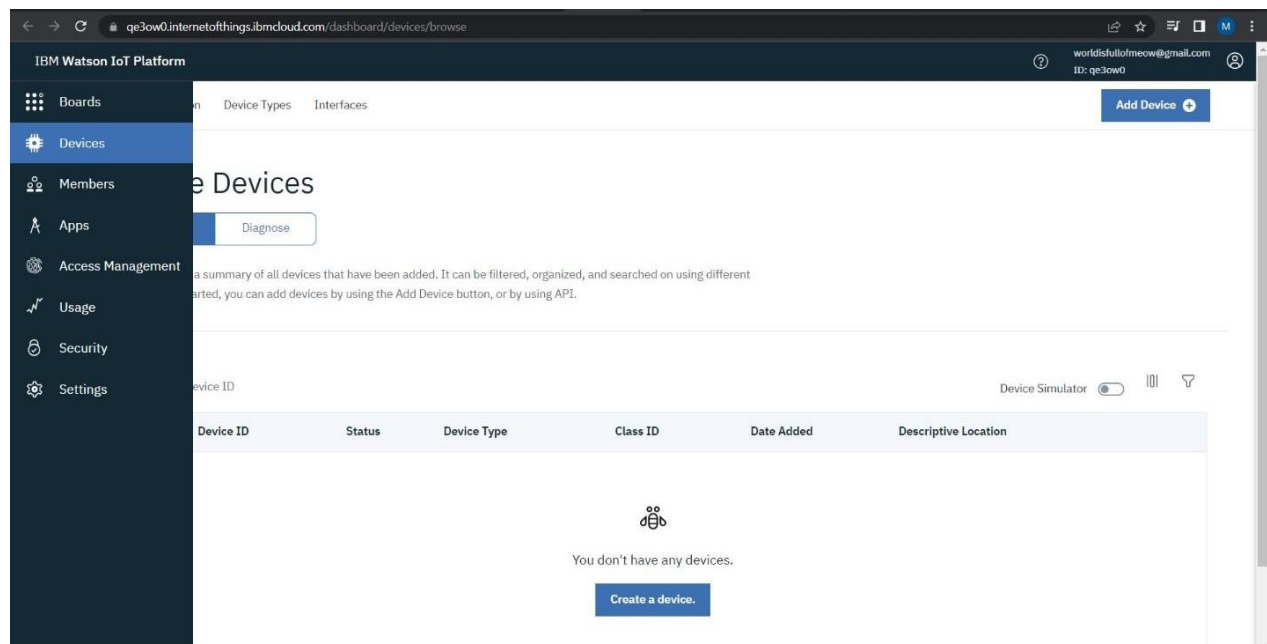
This table shows a summary of the members of the organization. It can be filtered, organized, and search on using different criteria. To get started, you can add members by clicking Add Members, or by using the API. For more information about members, see [Managing user access](#).

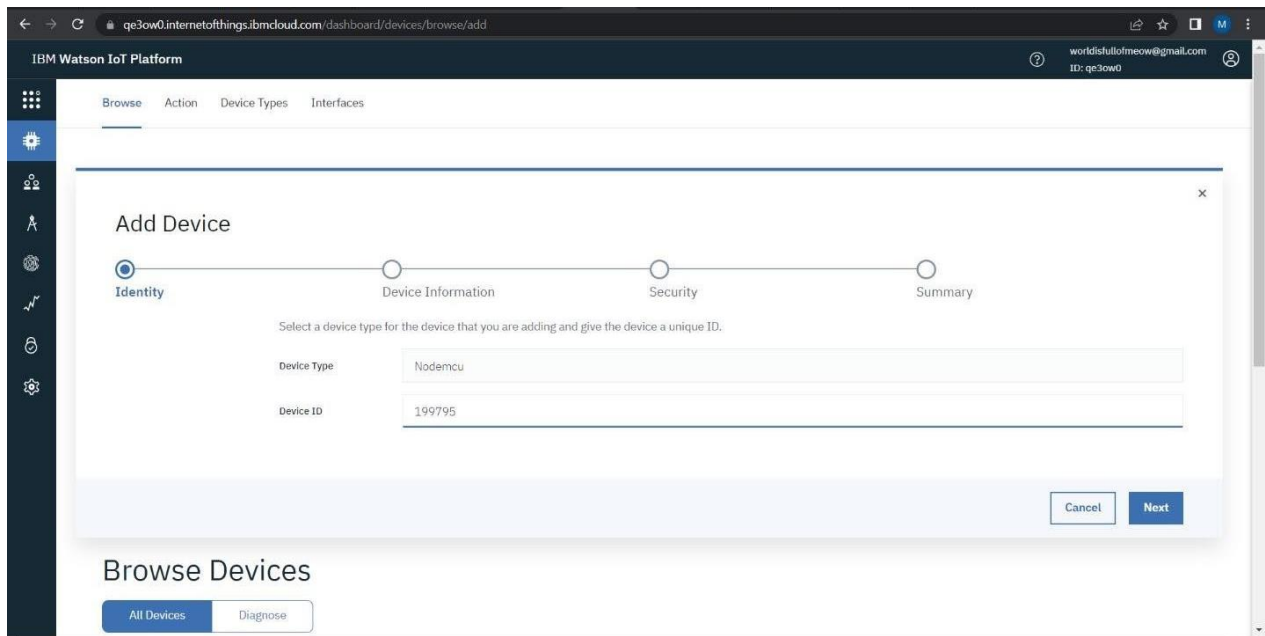
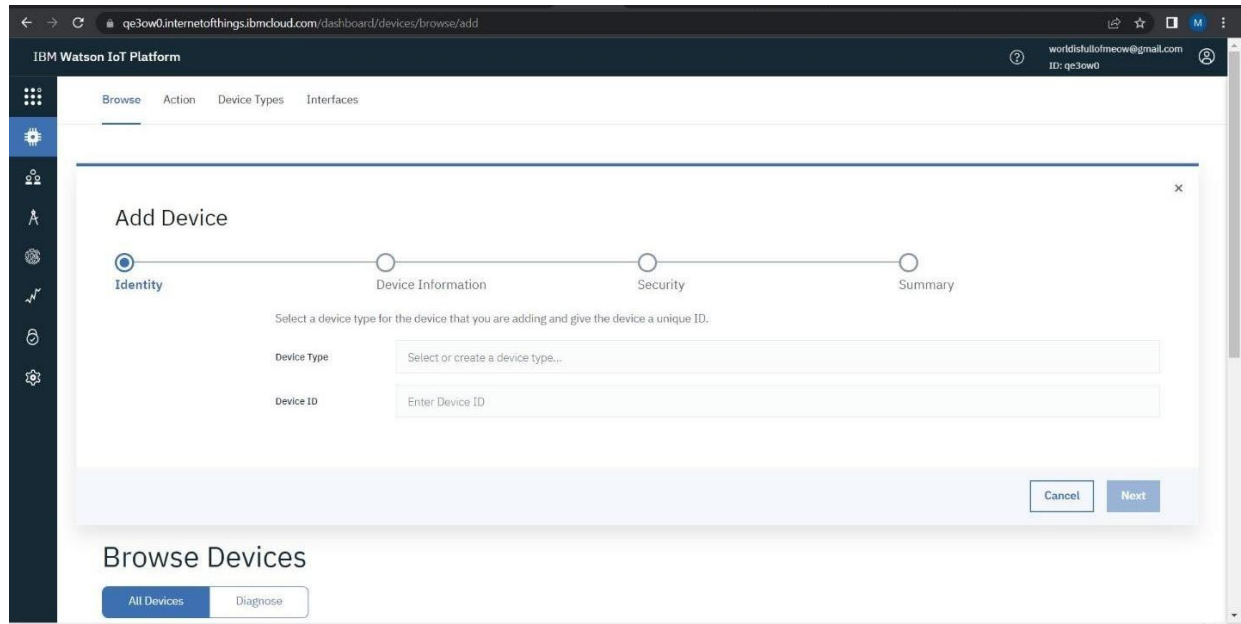
<input type="checkbox"/>	Email Address	Name	Role	Added By	Expires	
1 result						
<input type="checkbox"/>	worldisfullofmeow@gmail.com	worldisfullofmeow@gmail.com	Administrator	-	-	

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



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





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

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The progress bar indicates four steps: Identity, Device Information (current), Security, and Summary. The 'Device Information' step contains several input fields for device details:

- 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

Below these fields is an 'Add Metadata' button with a plus icon. At the bottom right of the form are 'Back' and 'Next' buttons. The 'Next' button is highlighted in blue, indicating it is the active action.

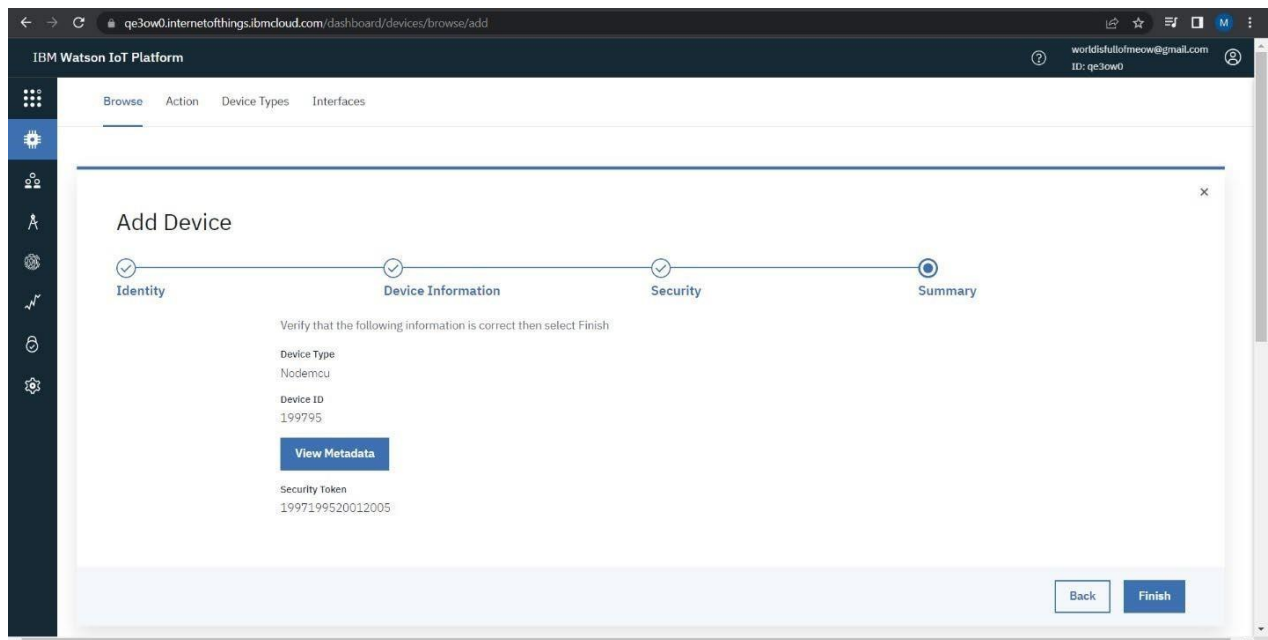
16. Clicking next it goes to the security where we do authentication token id.

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform, now at the 'Security' step. The progress bar shows Identity, Device Information, Security (current), and Summary. The 'Security' step presents two options for selecting a device authentication token:

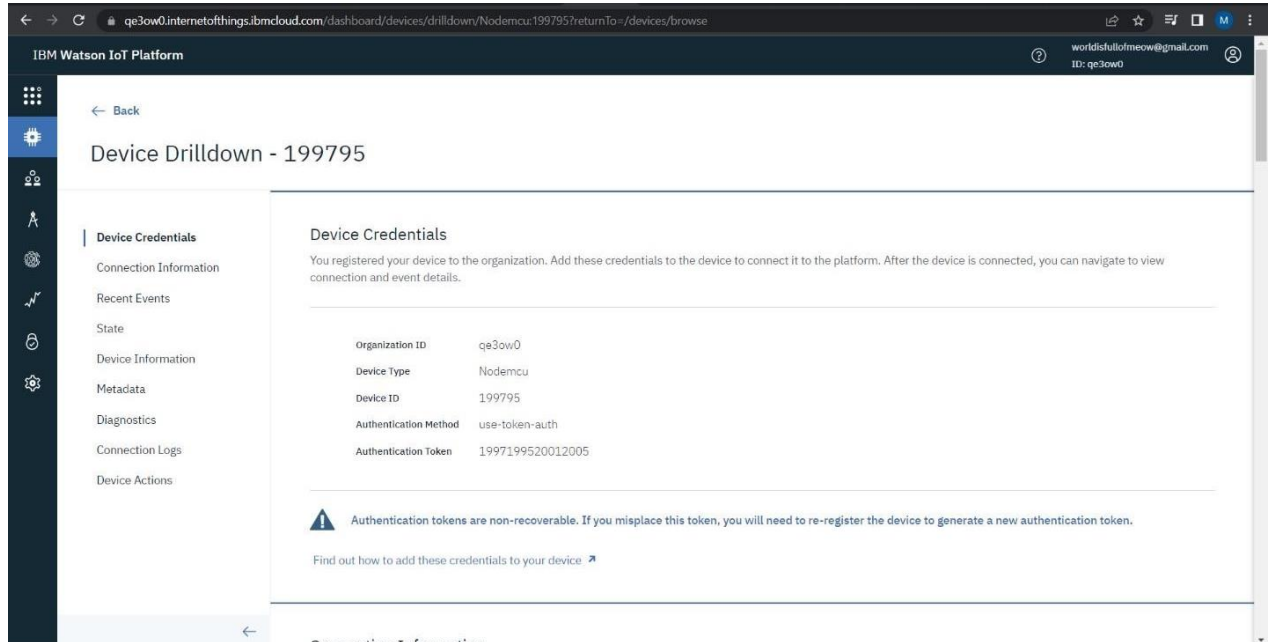
- Auto-generated authentication token (default):** Allow the service to generate an authentication token for you. Tokens are 18 characters and contain a mix of alphanumeric characters and symbols. The token is returned to you at the end of the device registration process.
- Self-provided authentication token:** Provide your own authentication token for this device. The token must be between 8 and 36 characters and contain a mix of lowercase and uppercase letters, numbers, and symbols, which can include hyphens, underscores, and periods. Do not use repeated characters, dictionary words, user names, or other predefined sequences.

Below these options is an 'Authentication Token' input field. The 'Auto-generated' option is selected, and the field contains the token: 1997199520012005. Below the input field, a note states: 'Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored.' and 'Authentication token are encrypted before we store them.'

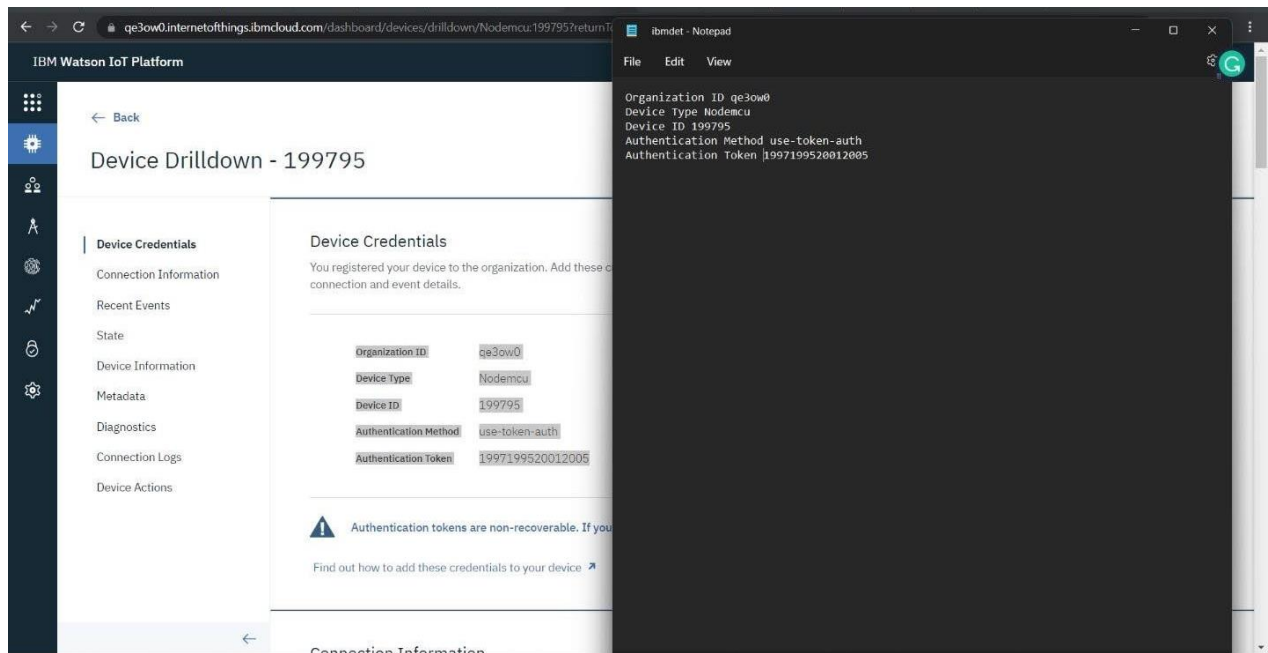
17. Clicking on next it goes to the summary of the device then click finish



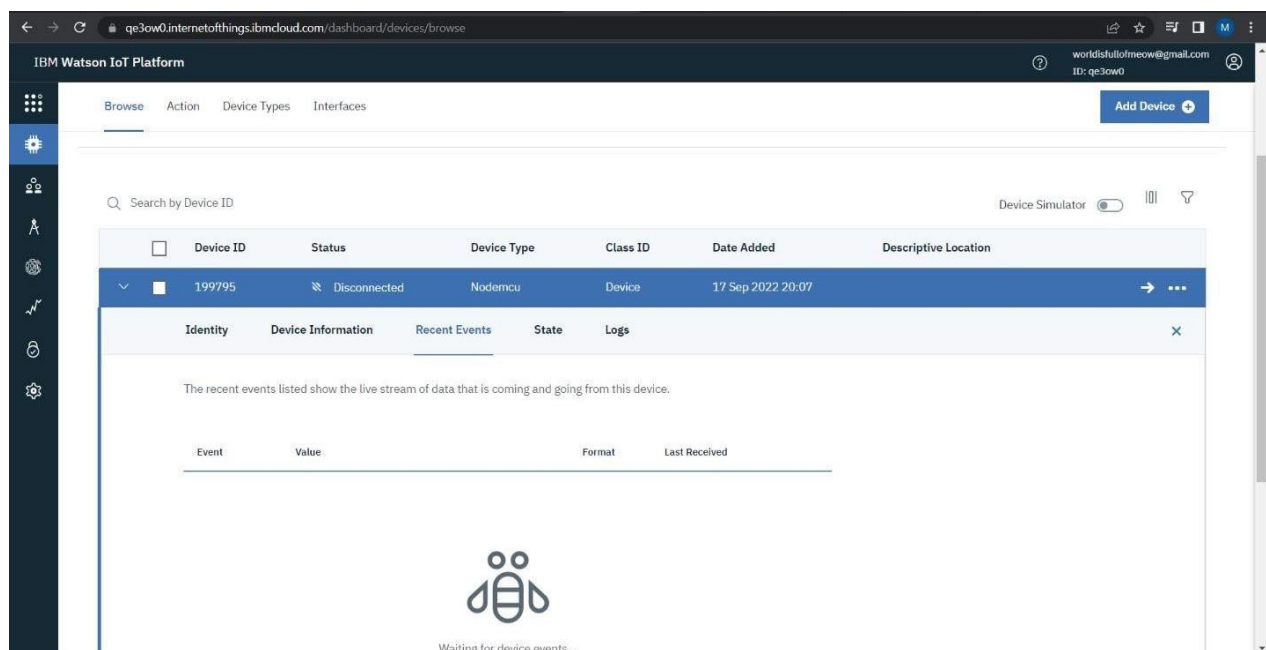
18. The device credentials will be displayed with all the details

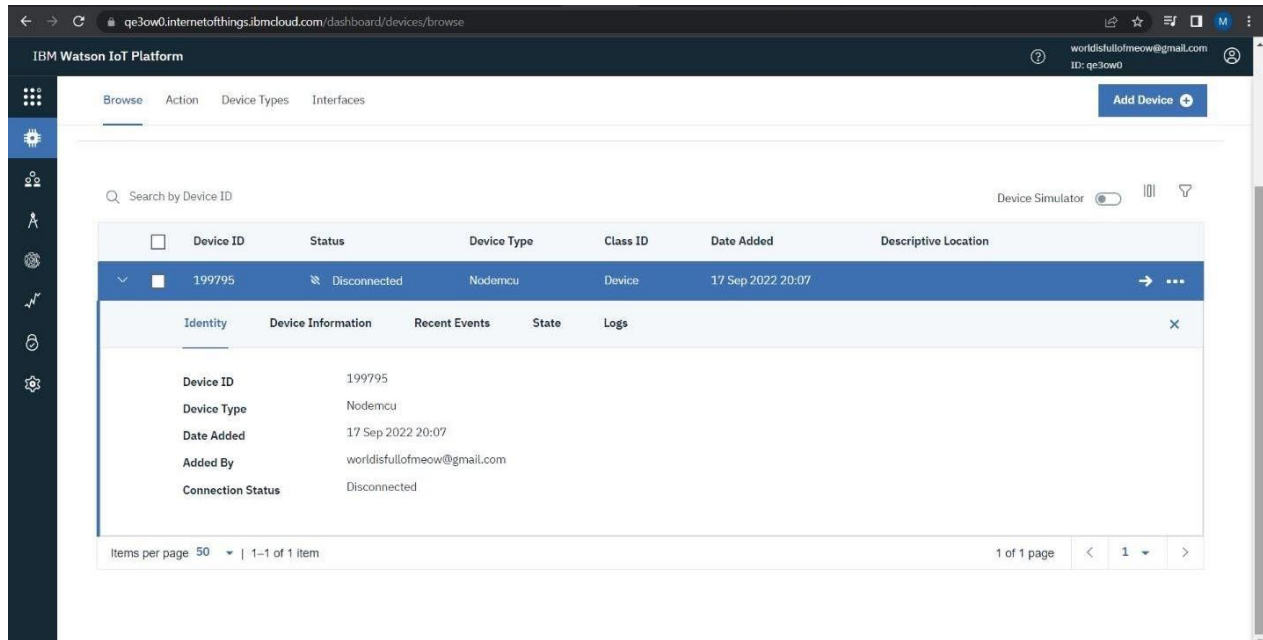


19. Safe the details of the device as the authentication tokens are non-recoverable and if misplaced then we have to create a new one.

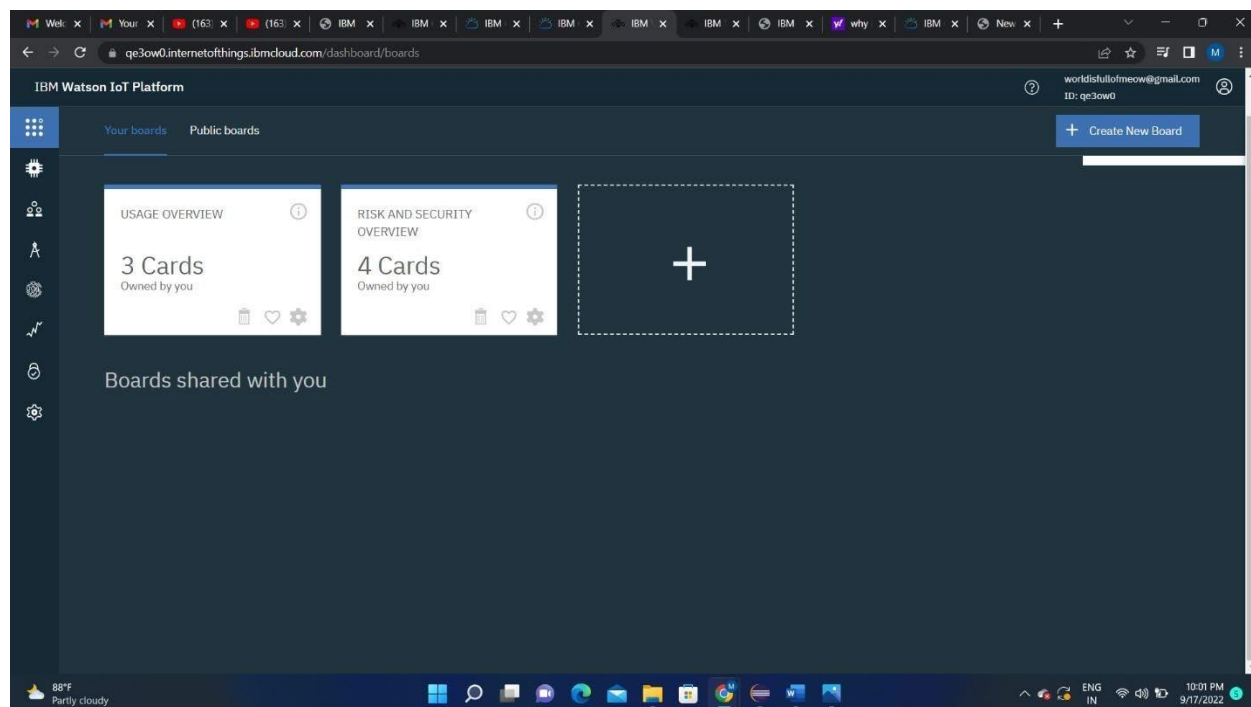


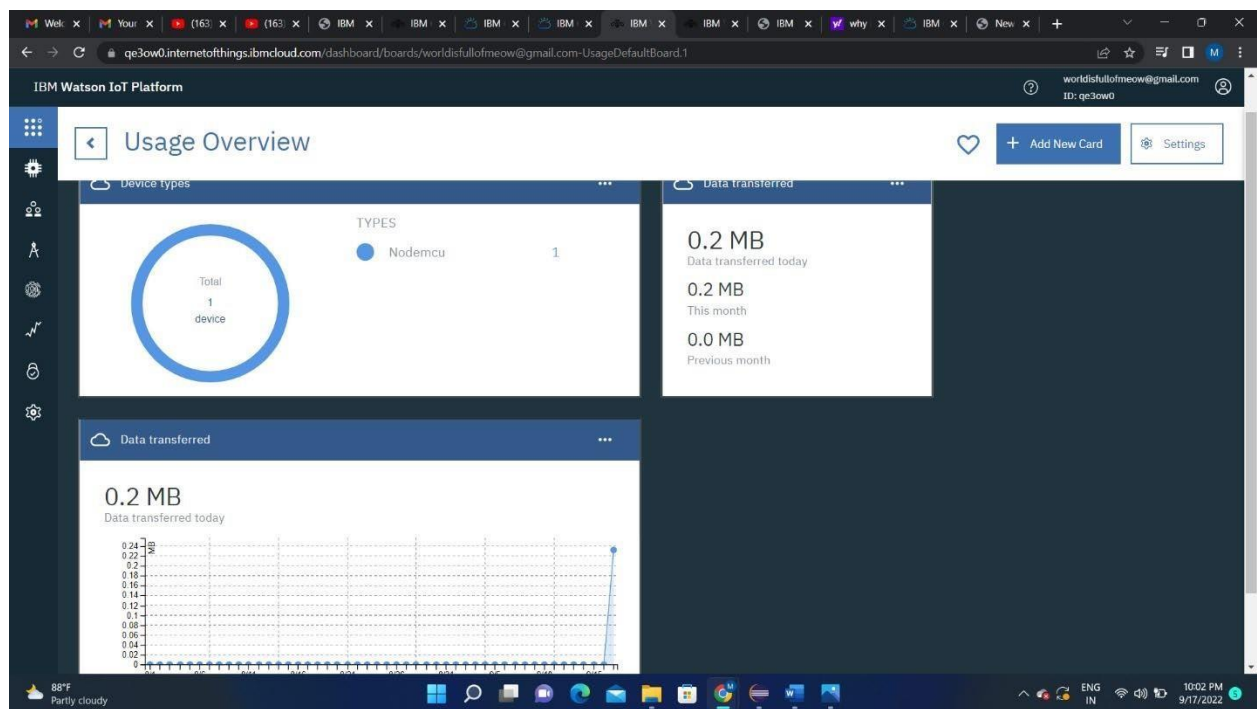
20. Clicking on the device tab we can now see the added device. Clicking on it will display the other details. It has different tabs like Identity, Device Information, State and login.





21.The Boards will display card for the project.





RESULT:

An IBM Watson cloud for IoT and a device is created