

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

PROJECT TITLE :

IoT Based Safety Gadget for Child Safety Monitoring and Notification

TEAM ID : PNT2022TMID42176

TEAM LEADER : SAMEERA N

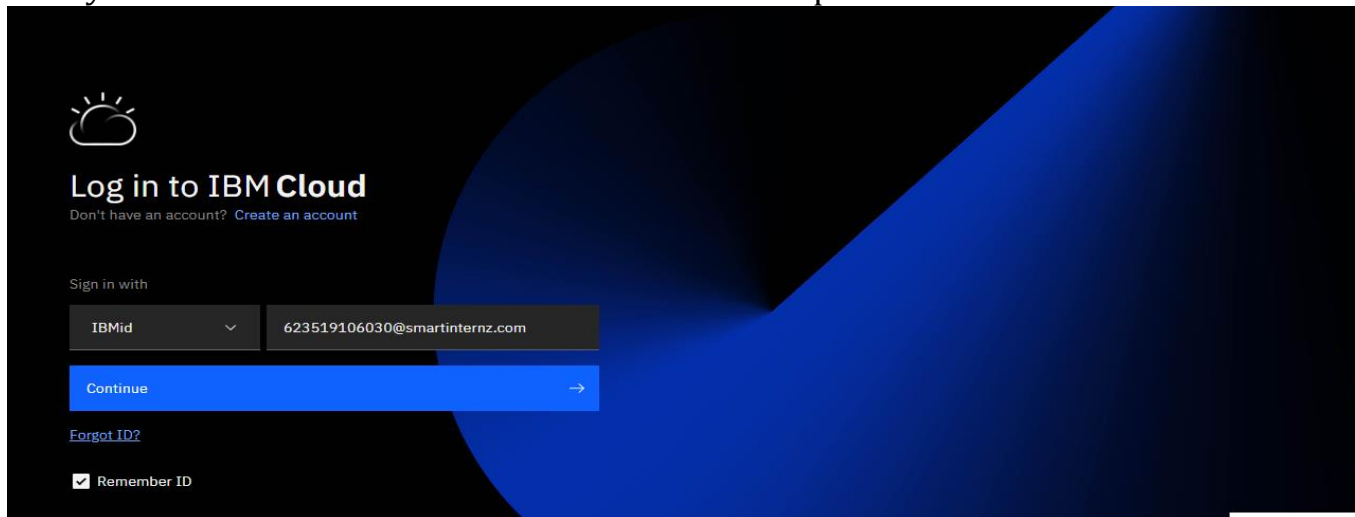
TEAM MEMBER 1 : MYTHILI T

TEAM MEMBER 2 : YOGESHWARI V

TEAM MEMBER 3 : SOWMIYA S

STEPS

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



2. Home page of IBM cloud

The screenshot displays the IBM Cloud dashboard interface. At the top, a navigation bar includes the IBM Cloud logo, a search bar, and links for Catalog, Manage, and user profile (SAMEERA NAZIR AHM...). The main dashboard area is titled "Dashboard" and features a "For you" section with several recommended actions: "Build" (Explore IBM Cloud with this selection of easy starter tutorials and services), "Build a web app with Watson Speech to Text" (Deploy a conversational interface compatible with any application, device, or channel), "Get Started with Watson Studio" (Get started with using AI and Cloud Object Storage in 15 minutes), "Build a Virtual Private Cloud (VPC)" (Upgrade to a paid account to create your own protected space in the IBM Cloud), "Learn about IAM Roles" (Learn about roles in IBM Cloud and how they work to control access), and "Build a Lift and Shift workload". Below this, the dashboard is divided into several sections: "User access" (Manage users), "News" (Introducing Badges to IBM Cloud Certification, Announcing IBM SevOne Network Performance Management Version 6.4, IBM Named a Leader in Gartner Magic Quadrant for Full Life Cycle API Management, IBM to Introduce a New Incident Management SaaS Offering), "Planned maintenance" (Clear skies! You can view your scheduled maintenance events here), "IBM Cloud status" (No issues), "Recent support cases" (You can view a summary of your support cases here after you submit them. Learn more about how to get support), and "Usage" (Looks like you don't have any resources yet. Get started in the catalog).

IBM Cloud

Search resources and products...

Catalog Manage SAMEERA NAZIR AHM...

Dashboard

Edit dashboard Upgrade account Create resource

For you

Select an option

Build
Explore IBM Cloud with this selection of easy starter tutorials and services.

Build a web app with Watson Speech to Text
Deploy a conversational interface compatible with any application, device, or channel.
Getting started 15 min

Get Started with Watson Studio
Get started with using AI and Cloud Object Storage in 15 minutes.
Popular 2 hr

Build a Virtual Private Cloud (VPC)
Upgrade to a paid account to create your own protected space in the IBM Cloud.
Getting started 7 min

Learn about IAM Roles
Learn about roles in IBM Cloud and how they work to control access.
Recommended 5 min

Build a Lift and Shift workload
Getting started

User access Manage users

News View all

Introducing Badges to IBM Cloud Certification

Announcing IBM SevOne Network Performance Management Version 6.4

IBM Named a Leader in Gartner Magic Quadrant for Full Life Cycle API Management

IBM to Introduce a New Incident Management SaaS Offering

Planned maintenance View all

Clear skies!
You can view your scheduled maintenance events here.

IBM Cloud status View all

No issues

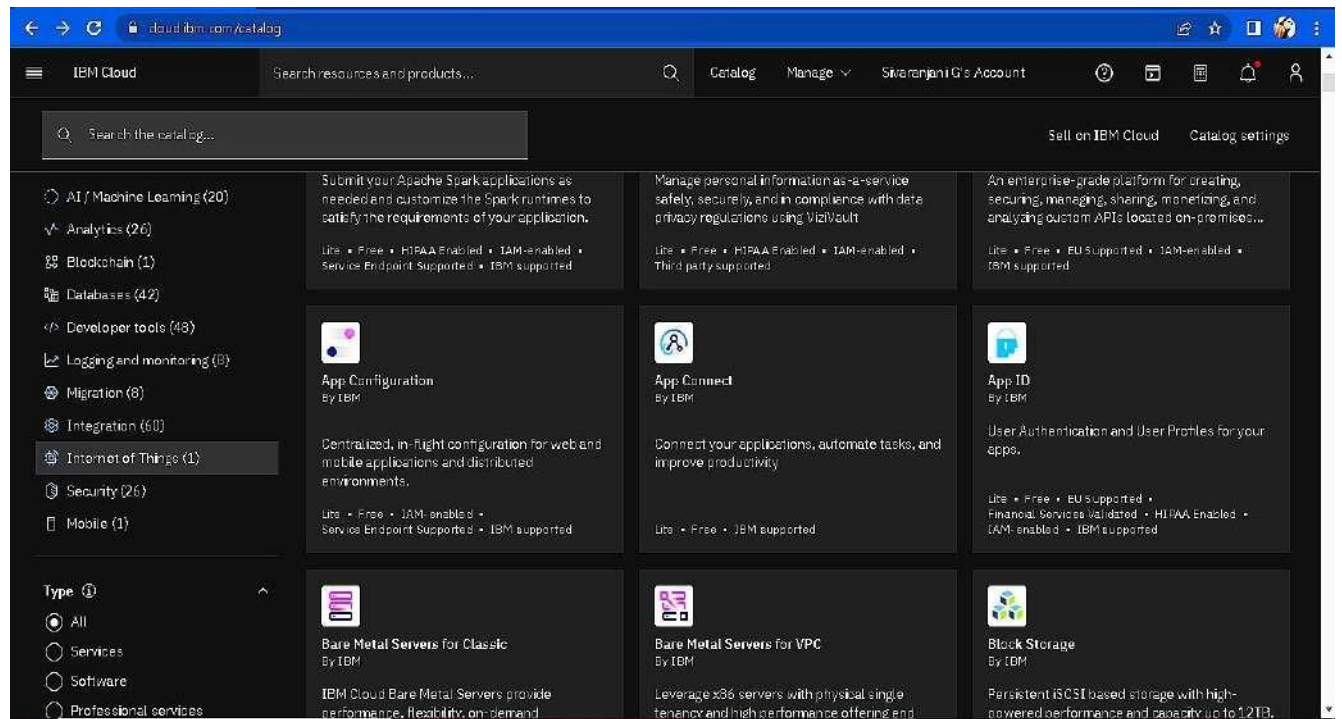
Recent support cases View all

You can view a summary of your support cases here after you submit them. Learn more about how to get support.

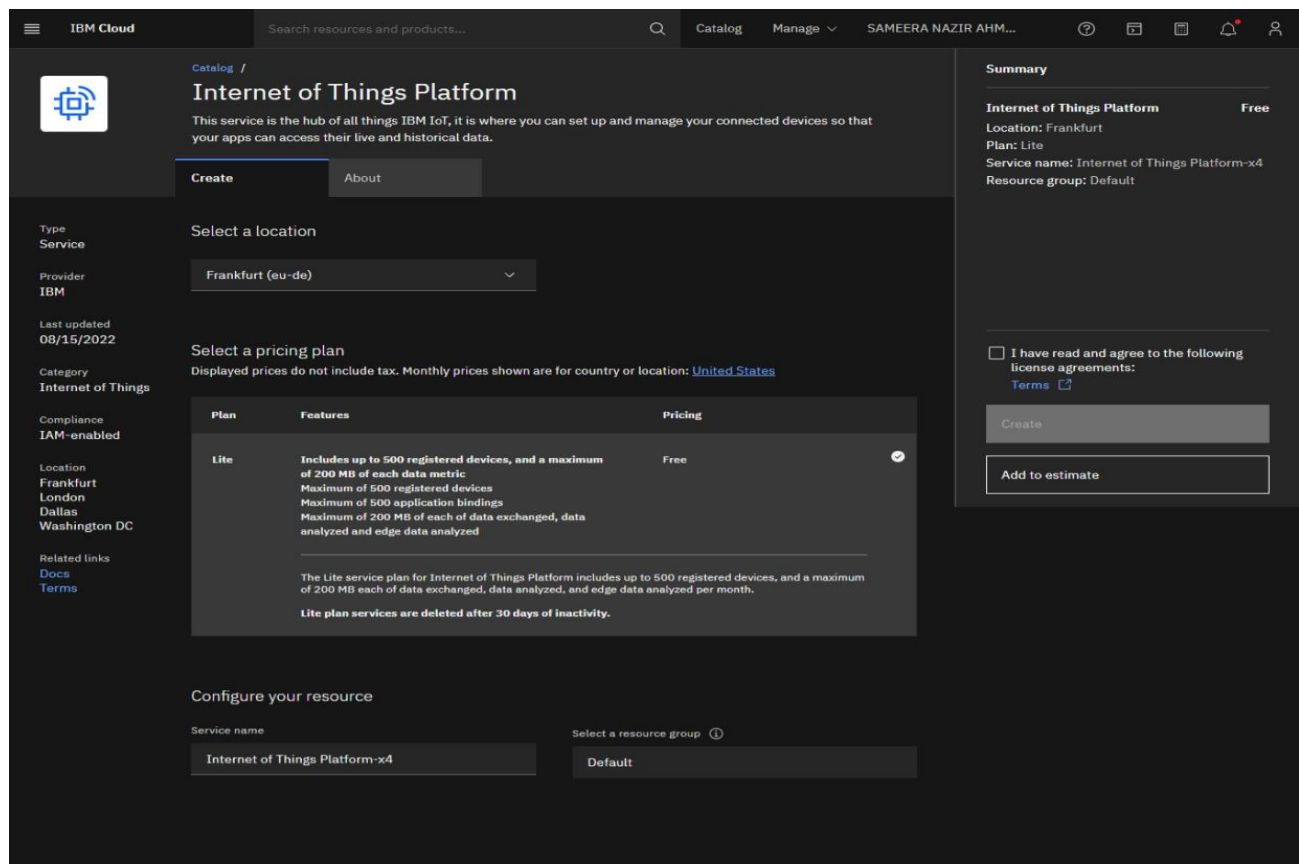
Usage View usage

Looks like you don't have any resources yet.
Get started in the catalog

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

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
09/16/2022

Category
Internet of Things

Compliance
IAM-enabled

Location
Frankfurt
London
Dallas

Select a location

Frankfurt (eu-de)

Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

Plan	Features	Pricing
Lite	Instant use up to 500 registered devices, and a maximum of 200 MB of each data resource. Maximum of 500 registered devices. Maximum of 500 application insights. Maximum of 200 MB of each of data exchanged, store	Free

Summary

Internet of Things Platform

Free

Location: Frankfurt

Plant: Lite

Service name: Internet of Things Platform-6g

Resource group: Default

☐ I have read and agree to the following license agreements:

[Terms](#)

Create

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 it agreements and then click on create

The screenshot shows the AWS IoT Platform console in the 'Create' tab. The left sidebar contains navigation links: Type, Service, Provider (IBM), Updated on (08/16/2022), Category (Internet of Things), Compliance (IAM-enabled), Location (Frankfurt, London, Dallas, Washington DC), and Related links (Docs, Terms).

The main content area is divided into two sections: 'Select a location' and 'Select a pricing plan'. The 'Select a location' dropdown is set to 'Dallas [us-east-1]'. The 'Select a pricing plan' section displays a table of available plans.

Plan	Features	Price
Use	Includes up to 500 registered devices and a maximum of 200 MB of each data matrix. Maximum of 500 registered devices. Maximum of 500 applications that are. Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed.	Free

Below the table, a note states: 'The Use 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 each month. Use plan services are billed after 30 days of inactivity.'

The right sidebar contains a 'Summary' section with the following details: 'Internet of Things Platform', 'Free', 'Location: Dallas', 'Plan: Use', 'Service name: Internet of Things Platform-v6', and 'Resource group: Default'. Below this is a checkbox labeled 'I have read and agree to the following license agreements:' with a link to 'Terms'. At the bottom of the sidebar are two buttons: 'Create' and '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 services)

The screenshot shows the IBM Watson IoT Platform console for a resource named "Internet of Things Platform-Child_Safety". The interface includes a left-hand navigation menu with options: "Manage" (selected), "Plan", and "Connections". The main content area features a "Let's get started with IBM Watson IoT Platform" section with a "Launch" button and a "Docs" link. Below this, a section titled "Ready for the next level?" displays the "IBM Watson IoT Platform Journey" with three stages: "Lite" (marked with a checkmark), "Non-Production", and "Production". Each stage has a brief description of the service plan.

Resource list /

Internet of Things Platform-Child_Safety Active Add tags

Details Actions...

- Manage
- Plan
- Connections

Let's get started with IBM Watson IoT Platform

Securely connect, control, and manage devices. Quickly build IoT applications that analyze data from the physical world.

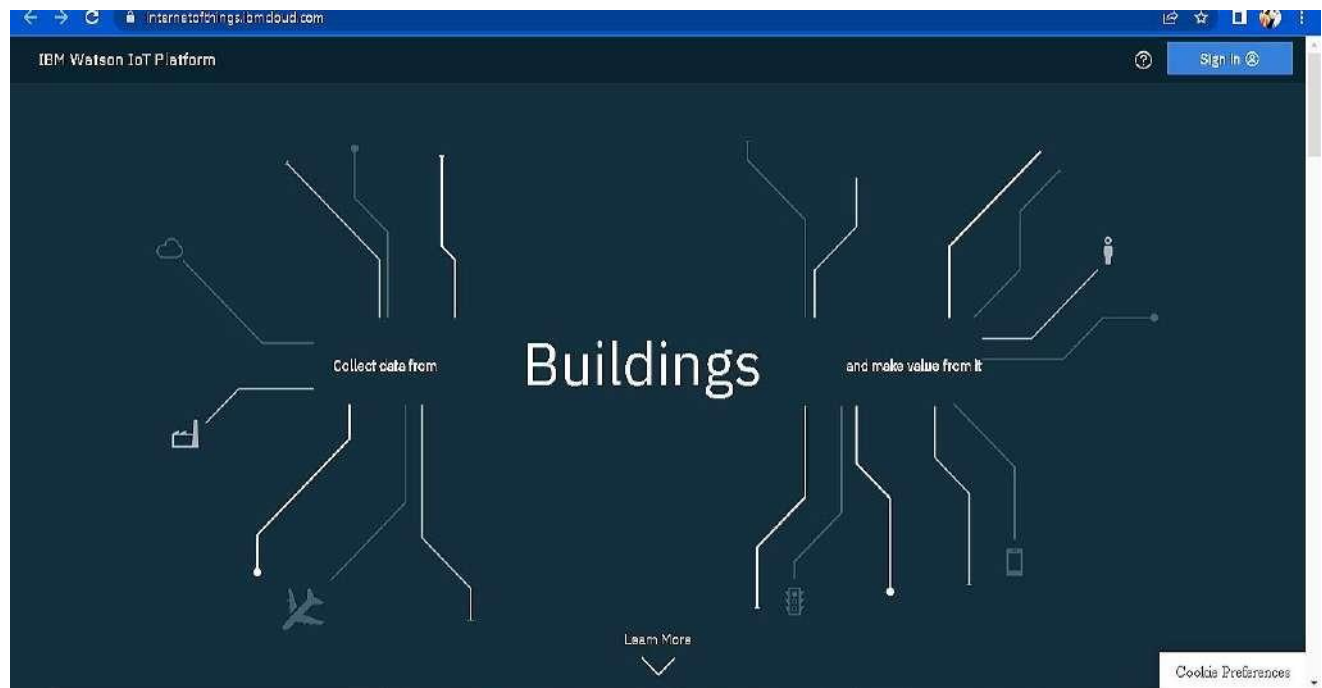
[Launch](#) [Docs](#)

Ready for the next level?

IBM Watson IoT Platform Journey

- ☒ **Lite**
The Lite service plan provides a lightweight, cloud-managed environment for small-scale IoT deployments.
- ☐ **Non-Production**
The Non-Production service plan is a full-featured, fully managed environment for development and testing.
- ☐ **Production**
The Production service is a fully managed SaaS offering that provides a secure, scalable environment for production IoT workloads.

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



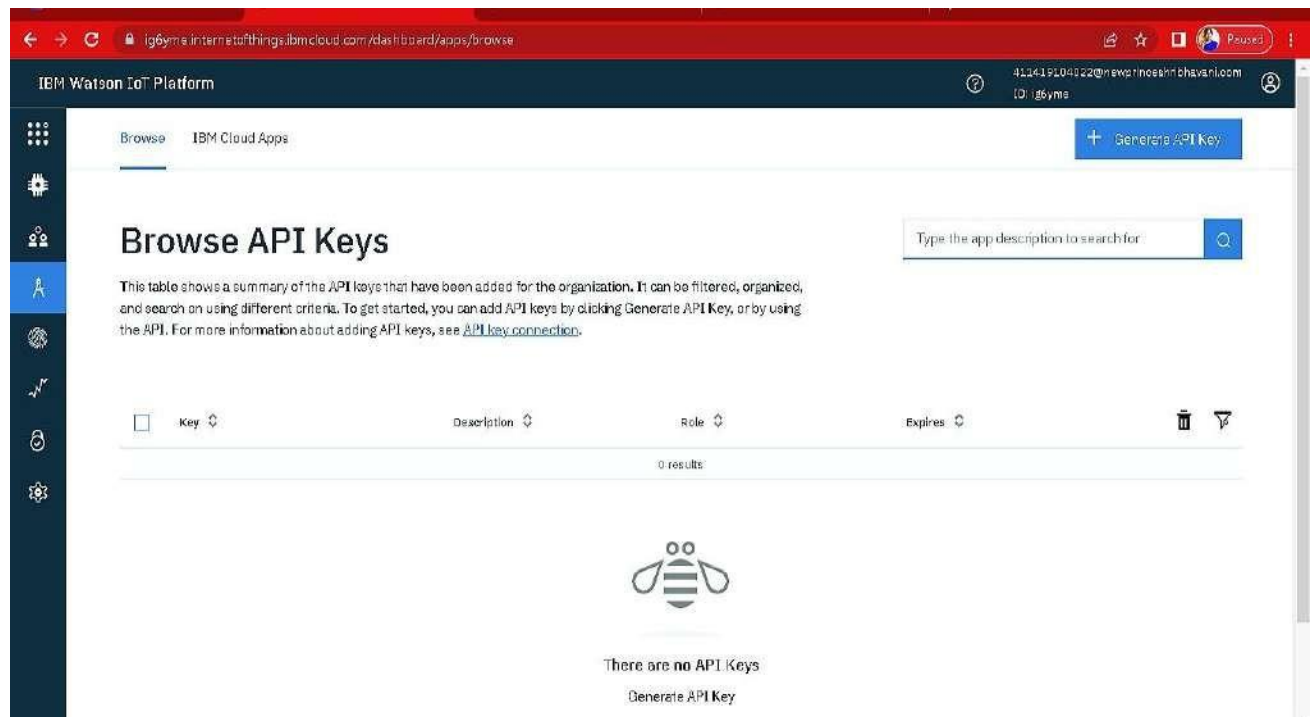
8. Once logged in the name will be displayed and it goes back to the first page



9. 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

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

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



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

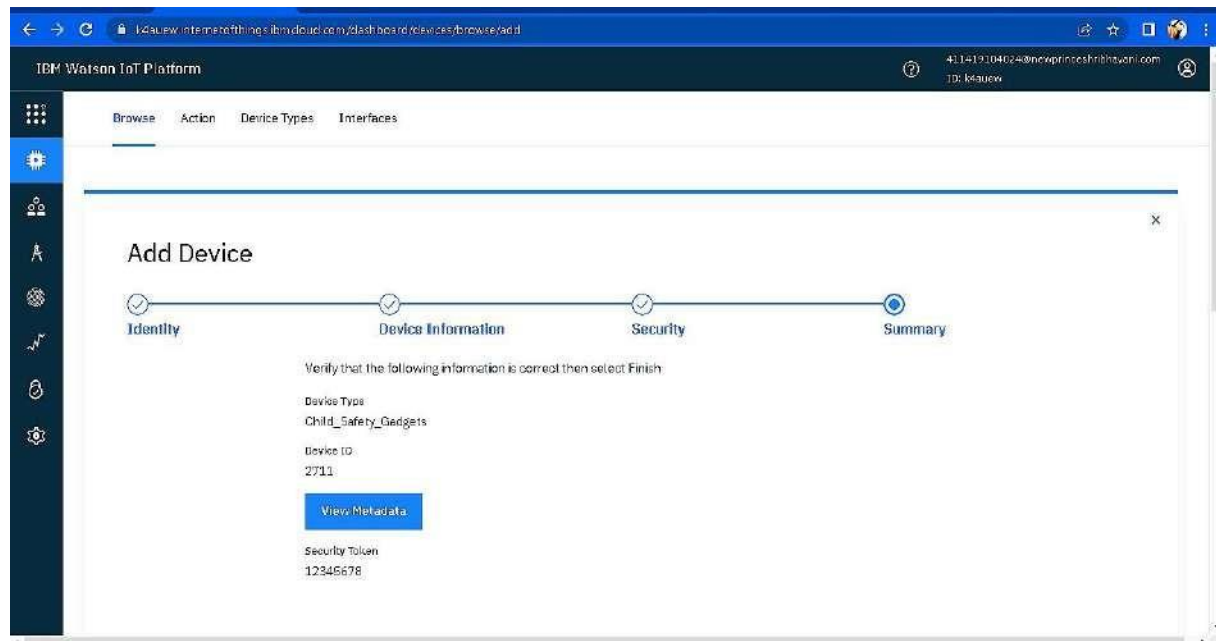
The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The 'Identity' step is active, indicated by a blue circle and a checkmark. The progress bar shows four steps: Identity, Device Information, Security, and Summary. Below the progress bar, a message states: 'Select a device type for the device that you are adding and give the device a unique ID.' There are two input fields: 'Device Type' with a dropdown menu showing 'Select or create a device type...' and 'Device ID' with a text input field containing 'Enter Device ID'. At the bottom right, there are 'Cancel' and 'Next' buttons. Below the wizard, there is a 'Browse Devices' section with 'All Devices' and 'Diagnose' buttons.

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

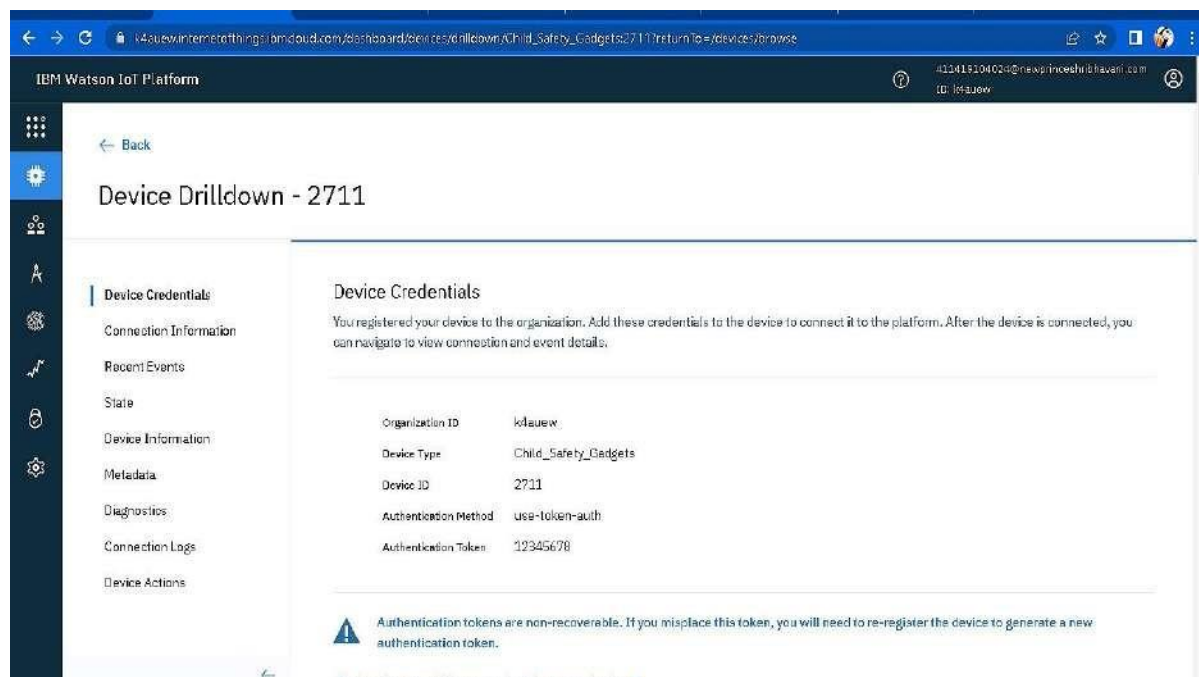
The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform, now at the 'Device Information' step. The 'Identity' step is completed with a checkmark, and 'Device Information' is the active step with a blue circle. The progress bar shows four steps: Identity, Device Information, Security, 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.' There are two columns of input fields. The left column includes: 'Serial Number' (text input), 'Model' (text input), 'Description' (text input), and 'Hardware Version' (text input). The right column includes: 'Manufacturer' (text input), 'Device Class' (text input), 'Firmware Version' (text input), and 'Descriptive Location' (text input). Below these fields is an 'Add Metadata' button with a plus icon. At the bottom right, there are 'Back' and 'Next' buttons.

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



Safe 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.

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

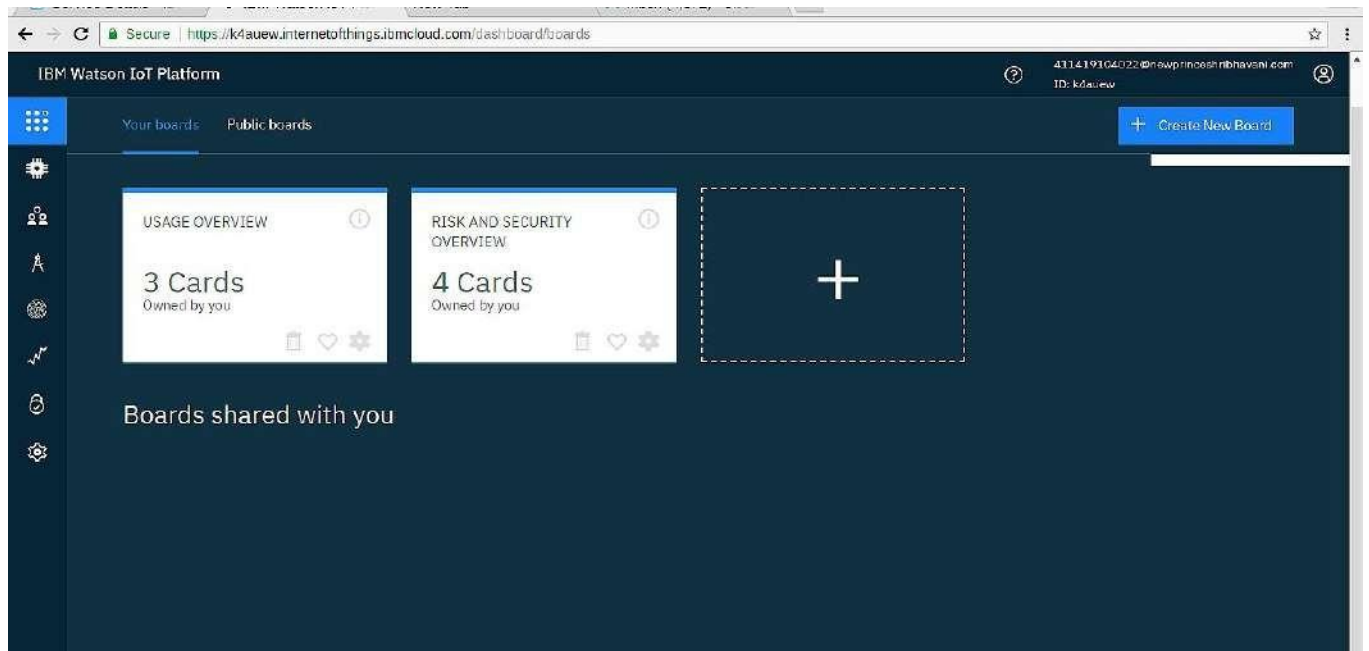
Date Added Oct 30, 2022 9:00 PM

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

