

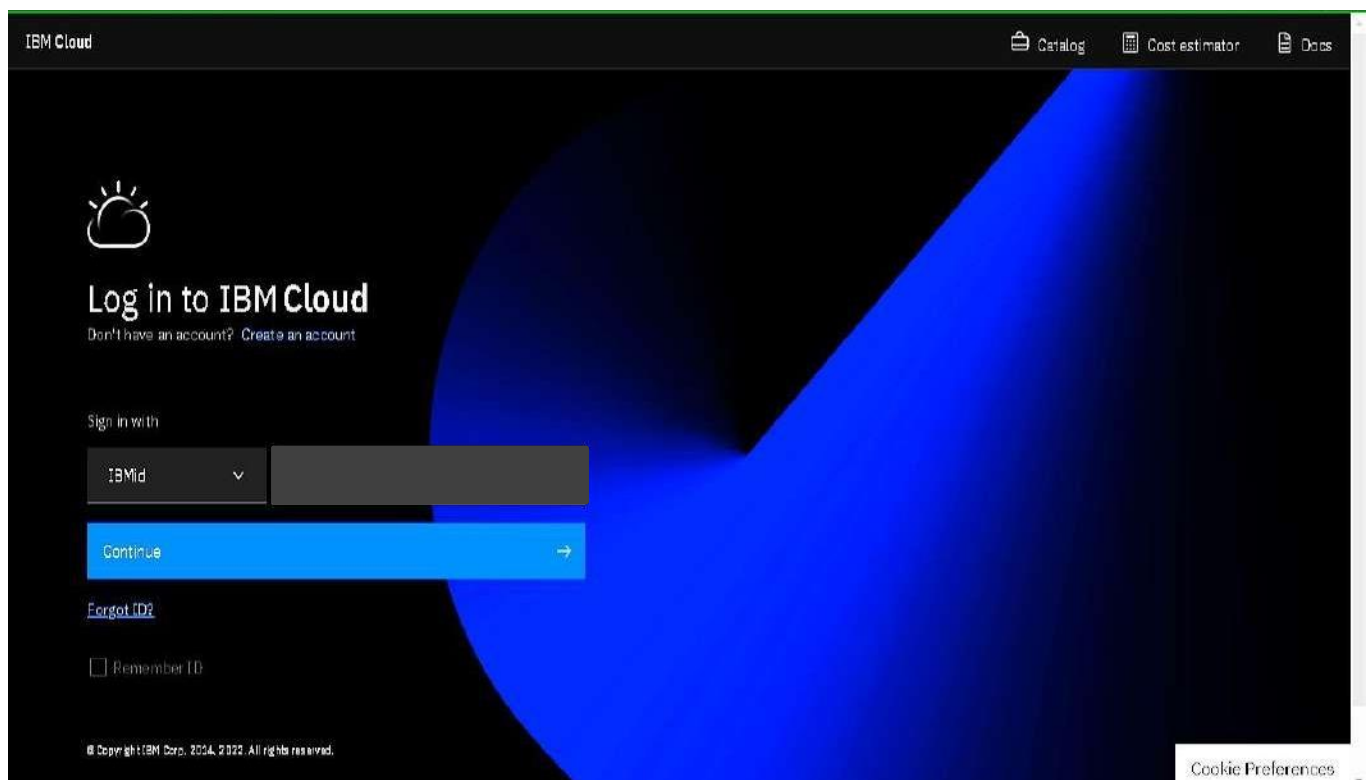
Create And Configure IBM Cloud Service

Create IBM Watson IoT Platform And Device

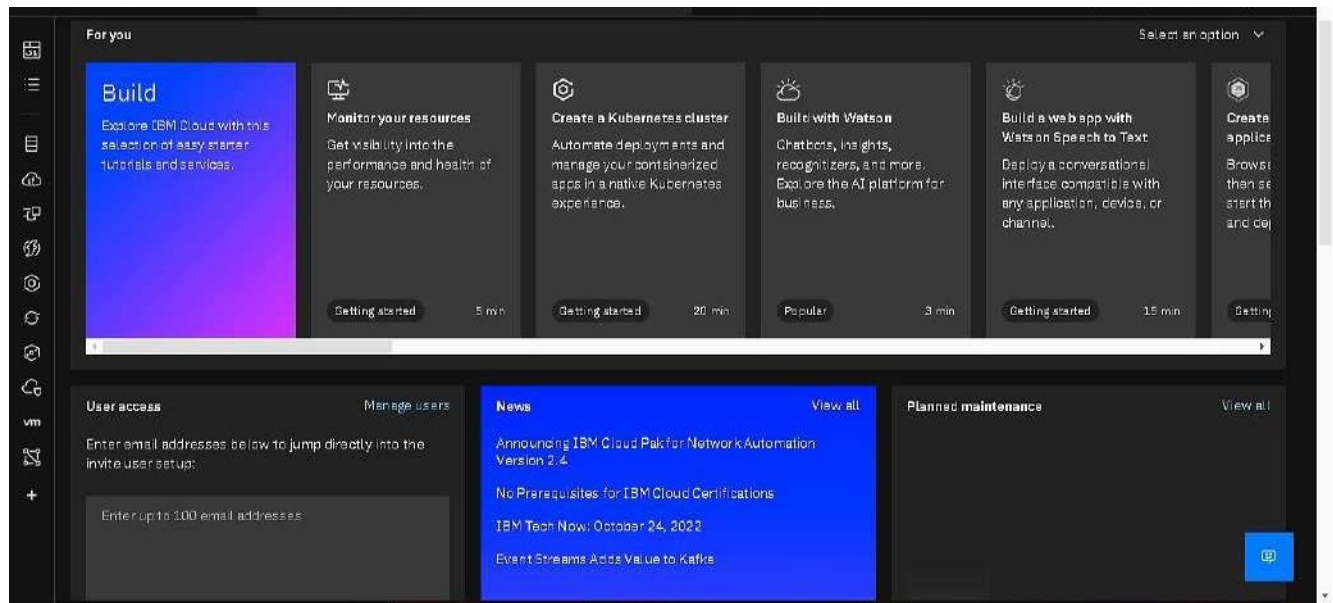
Team ID	PNT2022TMID38861
Project Name	IoT Based Safety Gadget For Child Safety Monitoring & Notification
Maximum Marks	4 Marks

STEPS

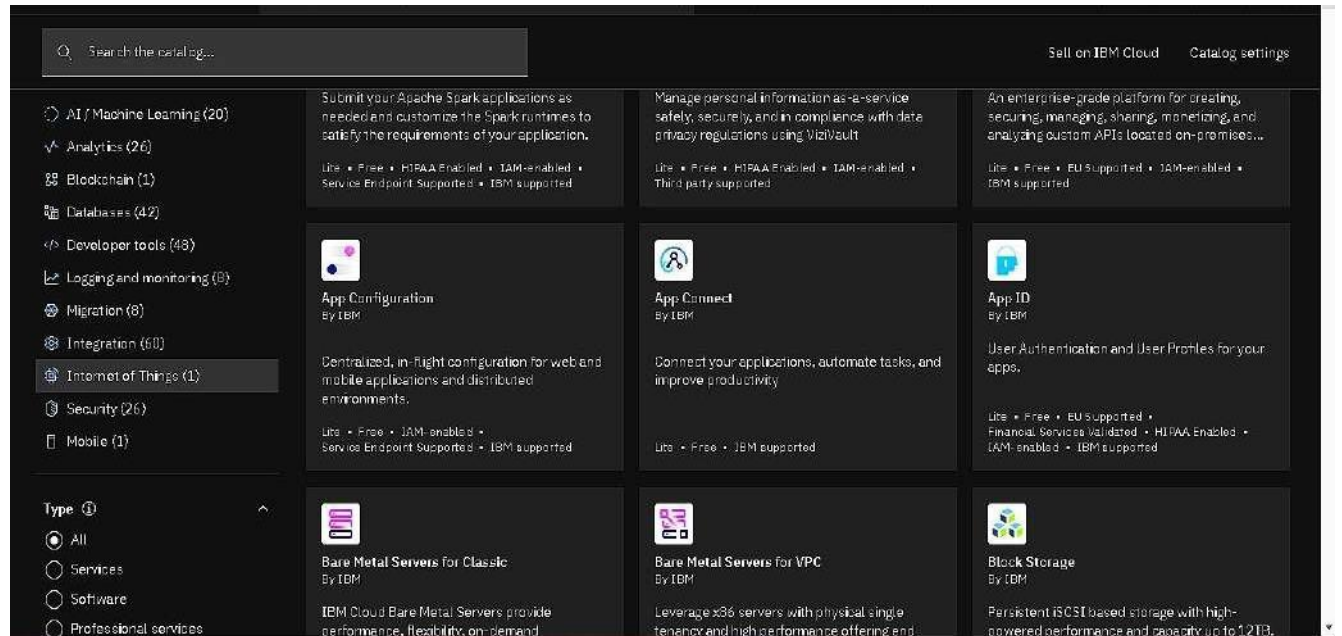
1. Firstly create an IBM cloud account with IBMid and password




2. Home page of IBM cloud



3. Click on the catalog on the top



4. Click on IoT in the category mentioned



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.

Catalog /

Create About

Type: Service

Provider: IBM

Updated on: 09/16/2022

Category: Internet of Things

Compliance: IAM-enabled

Location: Frankfurt, London, Dallas, Washington DC

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	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

Summary

Internet of Things Platform **Free**

Location: Frankfurt

Plan: 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

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

Location: Frankfurt, London, Dallas, Washington DC

Related links: Docs, Terms

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

Configure your resource

Service name: Internet of Things Platform-Child_Safety

Select a resource group: Default

Tags: Example1:env:dev, version:1

Access management tags: Example1:access:dev, provision:1

Summary

Internet of Things Platform **Free**

Location: Dallas

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. 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

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

08/16/2022

Category

Internet of Things

Compliance

IAM-enabled

Location

Frankfurt

London

Dallas

Washington DC

Related Link

Docs

Terms

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	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

Summary

Internet of Things Platform

Free

Location:

Frankfurt

Plan:

Lite

Service name:

Internet of Things Platform-6g

Resource group:

Default

☐ I have read and agree to the following license agreement:
Terms

Create

Add to estimate

Create

About

Type

Service

Provider

IBM

Updated on

08/16/2022

Category

Internet of Things

Compliance

IAM-enabled

Location

Frankfurt

London

Dallas

Washington DC

Related Link

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.

Lite plan services are deleted after 90 days of inactivity.

Summary

Internet of Things Platform

Free

Location:

Dallas

Plan:

Lite

Service name:

Internet of Things Platform-6g

Resource group:

Default

☒ I have read and agree to the following license agreement:
Terms

Create

Add to estimate

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)

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 development environment to get you started with



Non-Production

The Non-Production service plan is a full-featured, fully-integrated offering that enables



Production

The Production service is a fully managed SaaS offering that enables you to manage and analyze

Resource list /

Internet of Things Platform-Child_Safety

Active [Add tags](#)

Details

Actions...

Manage

Plan

Connections

Current plan

Lite

Features

- 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

Current usage

N/A

Lite plan services are deleted after 30 days of inactivity.

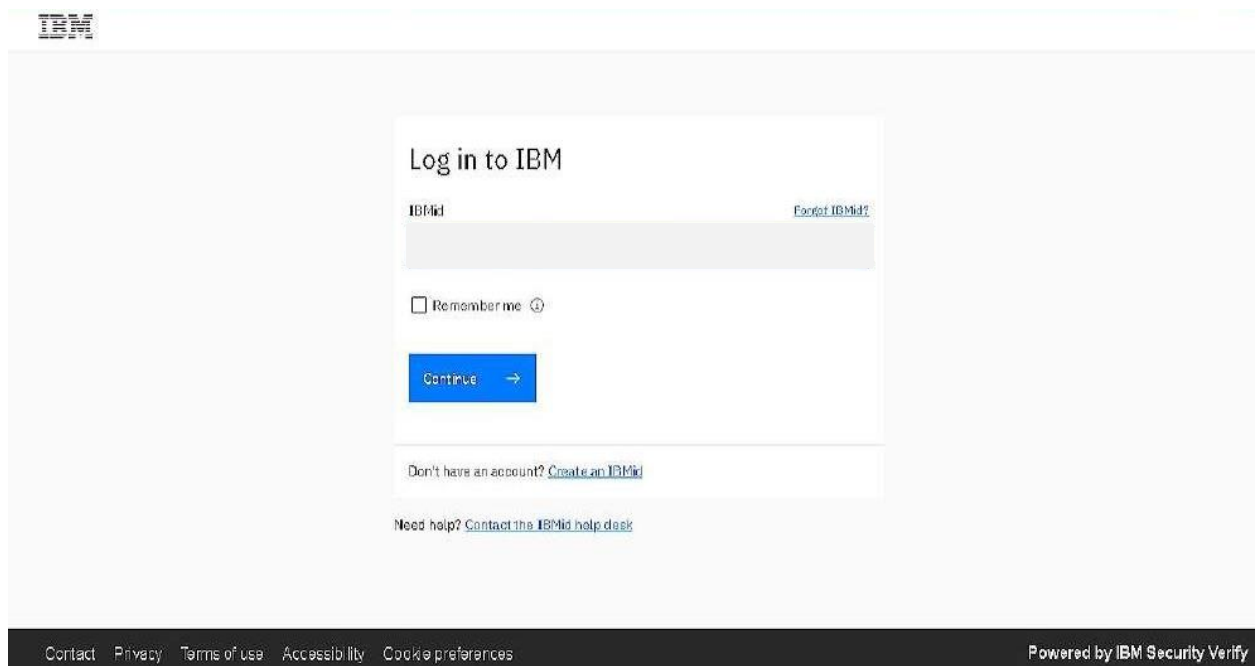
Change pricing plan

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

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



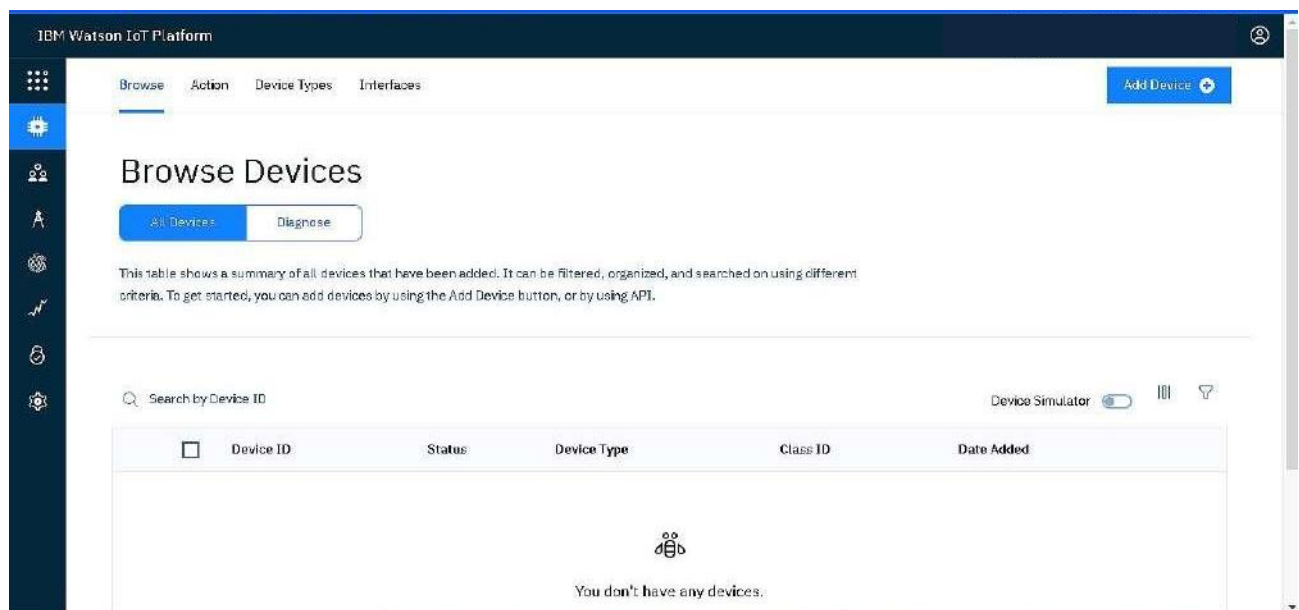
9. Enter the details to sign in to the Watson Cloud to create a device



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

Browse

IBM Cloud Apps

+ Generate API Key

Browse API Keys

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](#).

☐


Key

Description

Role

Expires

0 results



There are no API Keys

Generate API Key

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

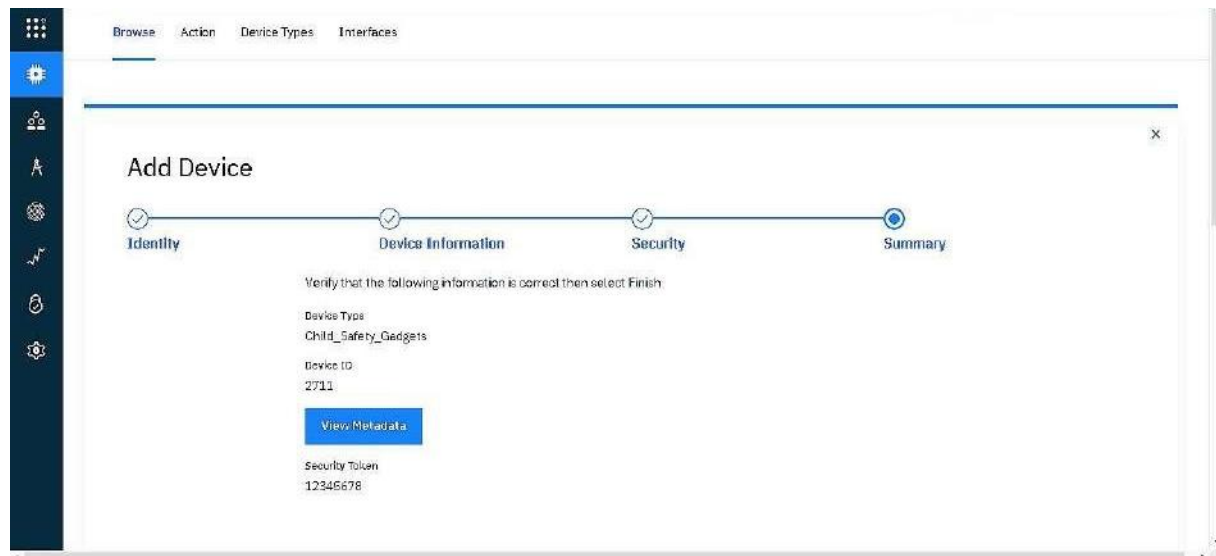
The screenshot shows the 'Add Device' wizard in the 'Identity' step. The wizard has four steps: Identity, Device Information, Security, and Summary. The 'Identity' step is currently active, indicated by a blue circle and a checkmark. Below the step indicator, there is a text prompt: 'Select a device 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 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 'Device Information' step. The wizard has four steps: Identity, Device Information, Security, and Summary. The 'Device Information' step is currently active, indicated by a blue circle and a checkmark. Below the step indicator, 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 'Enter Serial Number'), 'Model' (text input 'Enter Model'), 'Description' (text input 'Enter Description'), and 'Hardware Version' (text input 'Enter Hardware Version'). The right column contains: 'Manufacturer' (text input 'Enter Manufacturer'), 'Device Class' (text input 'Enter Device Class'), 'Firmware Version' (text input 'Enter Firmware Version'), and 'Descriptive Location' (text input 'Enter Descriptive Location'). At the bottom left, there 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.

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

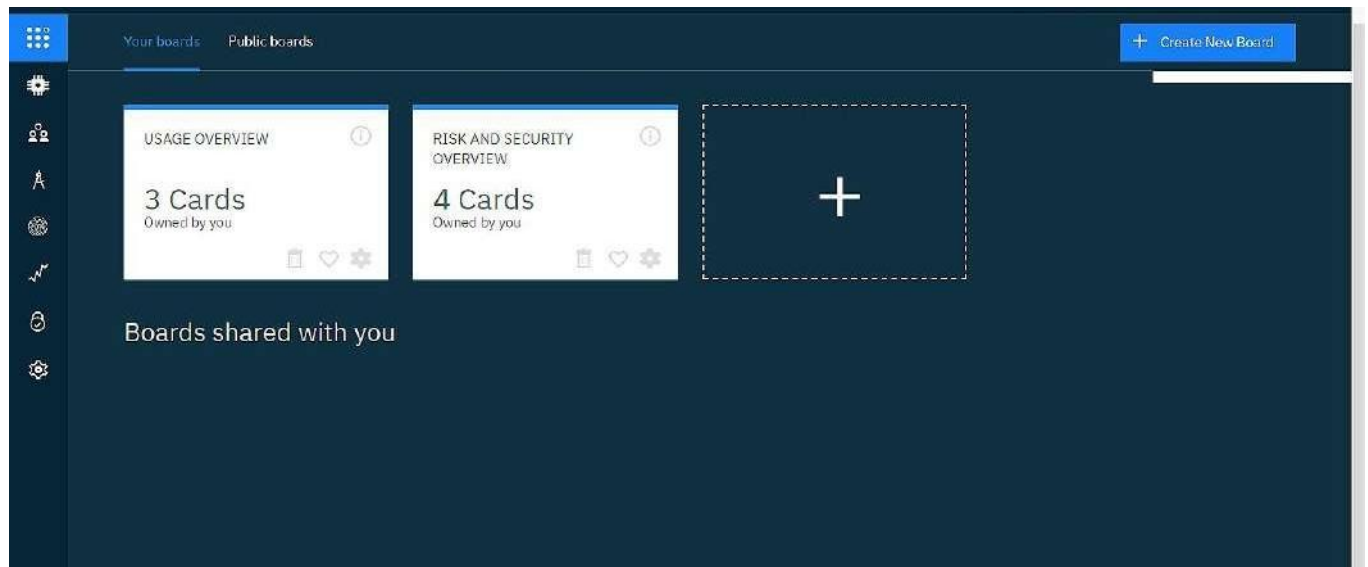
Device Details

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	
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.

19..The Boards will display card for the project.



RESULT:

An IBM Watson cloud for IoT and a device is created

TEAM ID : PNT2022TMID38861
TEAM LEADER : D.SIVA SANKAR
TEAM MEMBER 1 : R.GOKUL
TEAM MEMBER 2 : S.JEEVANANTHAM
TEAM MEMBER 3 : N.LOGESH KUMAR
TEAM SIZE : 4

MENTOR : BARADWAJ IL