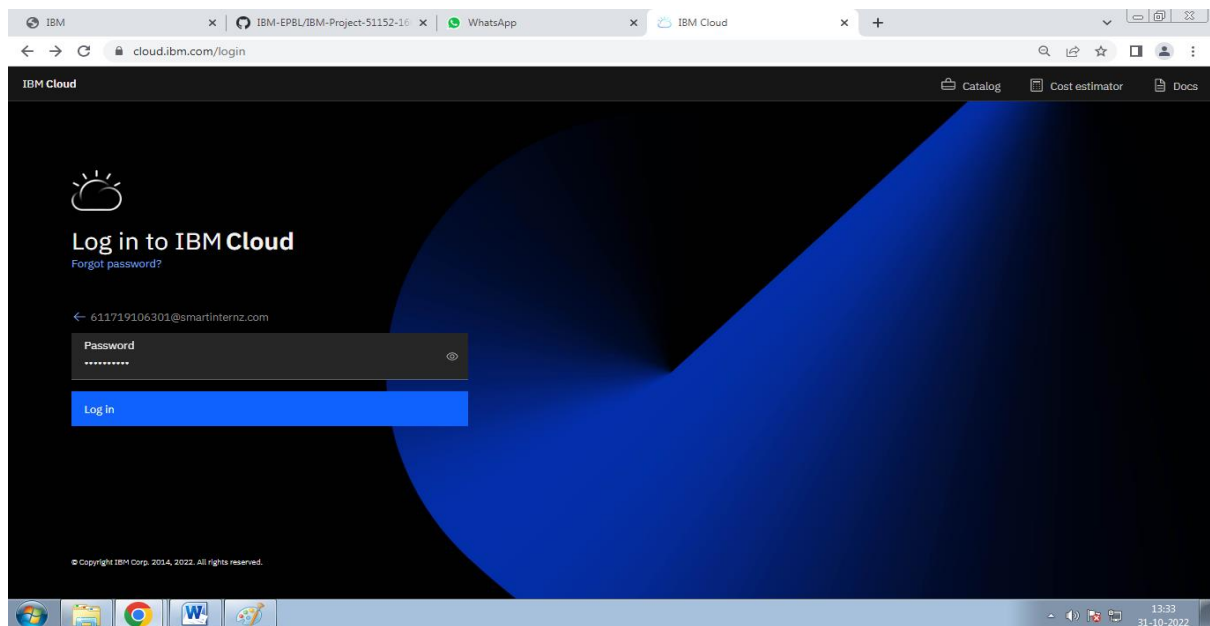


Create IBM Watson IoT Platform and Device

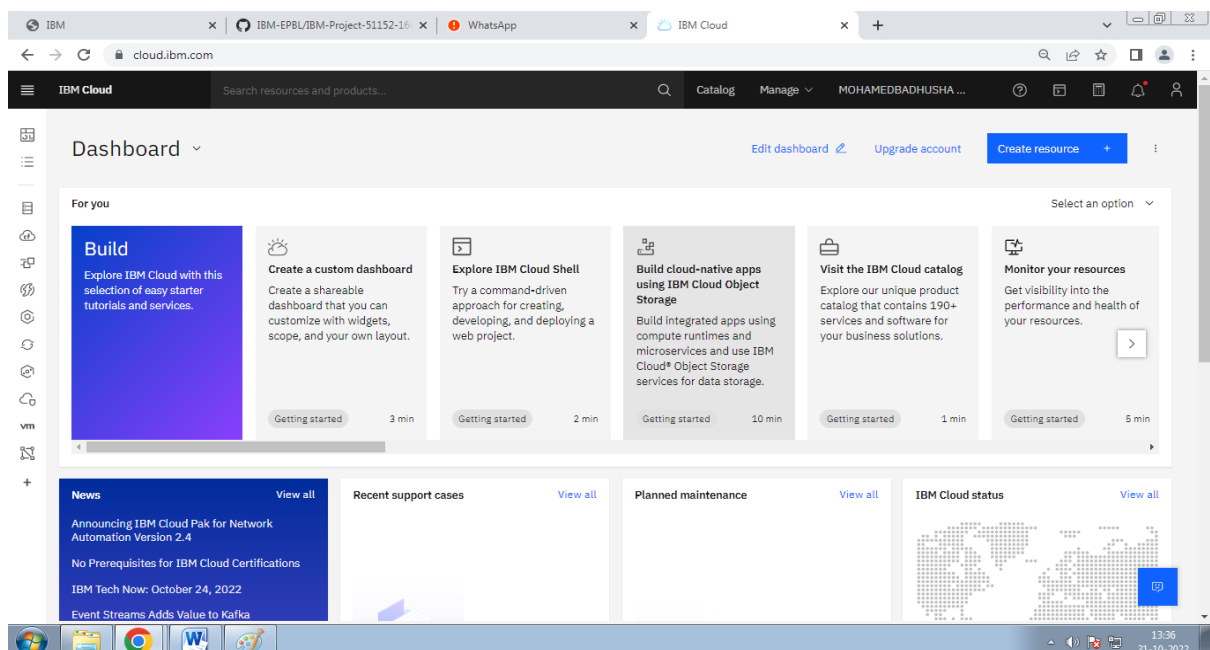
Date	22-10-2022
Team ID	PNT2022TMID40851
Project Name	IoT based safety gadget for child safety monitoring and notification
Maximum Marks	4 Marks
Submitted by	

STEPS:

1. First log-in to IBM cloud account with IBM ID and Password



2. Home page of IBM cloud



3. Click on the catalog and search Internet of Things

The screenshot shows the IBM Cloud Catalog page for the Internet of Things Platform. The page is titled "Internet of Things Platform" and includes a description: "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." The page is divided into two tabs: "Create" and "About". The "Create" tab is active, showing a "Select a location" dropdown menu with "Frankfurt (eu-de)" selected. Below this is a "Select a pricing plan" section with a table of plans. The table has three columns: "Plan", "Features", and "Pricing". The "Lite" plan is selected, showing features like "Includes up to 500 registered devices, and a maximum of 200 MB of each data metric" and a pricing of "Free". A "Create" button is visible at the bottom right of the pricing plan section. On the right side of the page, there is a "Summary" panel showing the service name, location, and plan. A warning message is displayed: "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." Below the warning, there is a checkbox for "I have read and agree to the following license agreements:" and a "Create" button.

IBM Cloud

Search resources and products...

Catalog Manage MOHAMEDBADHUSHA ...

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

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

The Lite service plan for Internet of Things Platform includes up to 500 registered devices, and a maximum of 200 MB each of

Summary

Internet of Things Platform Free

Location: Frankfurt

Plan: Lite

Service name: Internet of Things Platform-fh

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

4. Next click on the Launch Button

The screenshot shows the IBM Cloud Service Details page for the Internet of Things Platform-4g. The page is titled "Internet of Things Platform-4g" and includes a status indicator "Active" and a link to "Add tags". The page is divided into two tabs: "Manage" and "Details". The "Manage" tab is active, showing a "Launch" button and a "Docs" button. Below this is a "Ready for the next level?" section with a heading "IBM Watson IoT Platform Journey". The journey is divided into three stages: "Lite", "Non-Production", and "Production". The "Lite" stage is selected, showing a description: "The Lite service plan provides a lightweight development environment to get you started with the connectivity capabilities of Watson IoT Platform." Below this, there is a "Launch" button. The "Non-Production" stage shows a description: "The Non-Production service plan is a full-featured, fully-integrated offering that enables you to explore Watson IoT Platform to see how the service can fit into your IoT environment." Below this, there is a "Launch" button. The "Production" stage shows a description: "The Production service is a fully managed SaaS offering that enables you to manage and analyze enterprise IoT data." Below this, there is a "Launch" button.

IBM Cloud

Search resources and products...

Catalog Manage MOHAMEDBADHUSHA ...

Internet of Things Platform-4g 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 the connectivity capabilities of Watson IoT Platform.

Free

Non-Production

The Non-Production service plan is a full-featured, fully-integrated offering that enables you to explore Watson IoT Platform to see how the service can fit into your IoT environment.

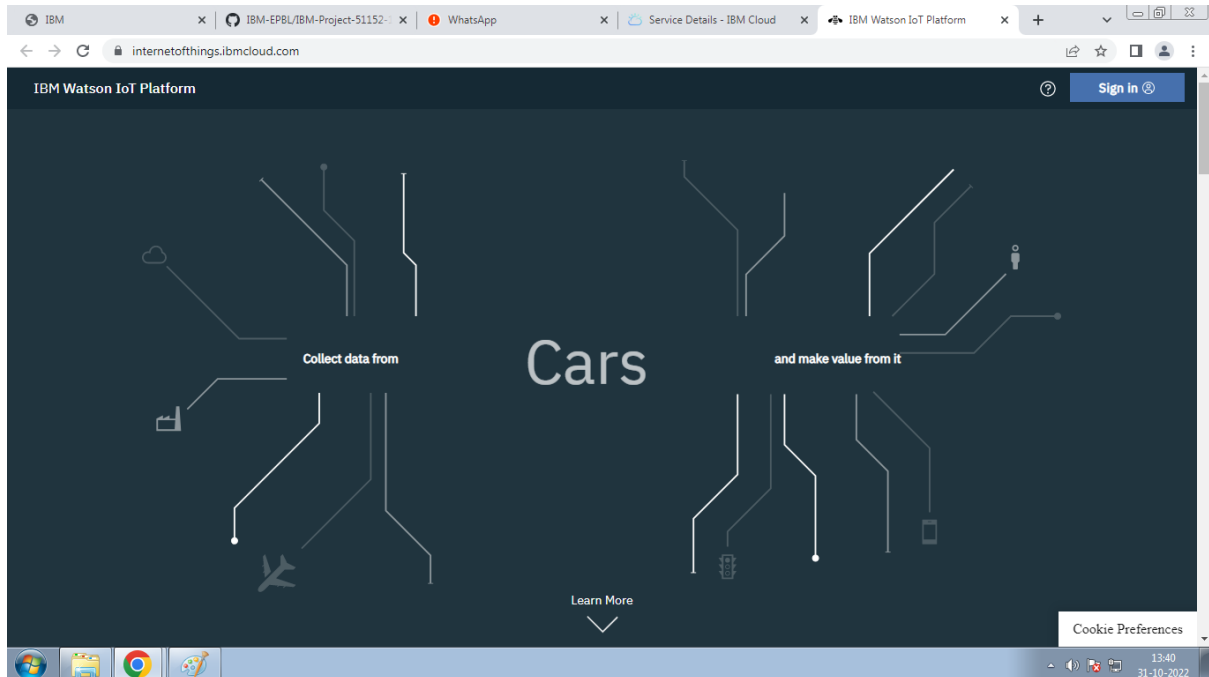
Starts at \$500 per month

Production

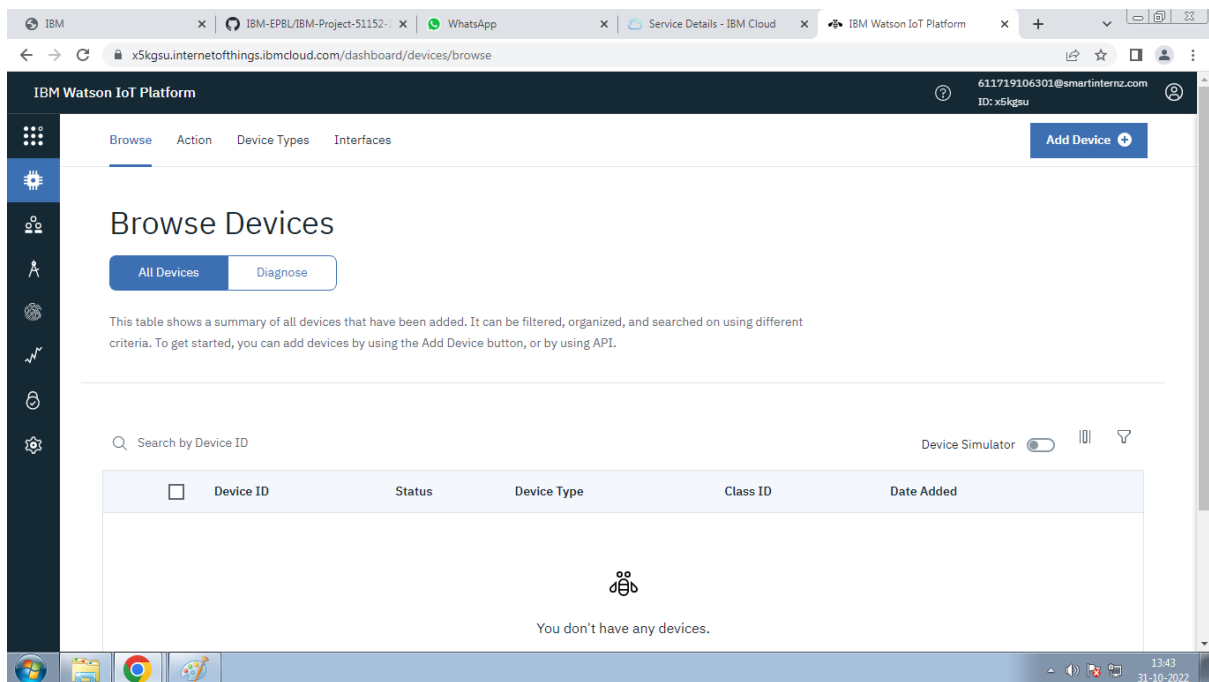
The Production service is a fully managed SaaS offering that enables you to manage and analyze enterprise IoT data.

Includes IBM Service & Support

5. Sign in IBM Watson IoT Platform



6. Home page of IBM Watson IoT Platform



7. Usage of Summary IBM Watson IoT Platform

The screenshot shows the 'Usage Summary' page in the IBM Watson IoT Platform. The page header includes the IBM logo and navigation tabs for 'IBM-EPBL/IBM-Project-51152', 'WhatsApp', 'Service Details - IBM Cloud', and 'IBM Watson IoT Platform'. The user profile '611719106301@smartinternz.com' with ID 'x5kgau' is visible in the top right. The main content area features a 'Usage Summary' section with two cards: 'THIS MONTH' and 'PREVIOUS MONTH', both showing '0 bytes' of data transferred. Below this is a 'Data Transferred' section with a date range selector set to 'from 27/10/2022' and a status box indicating '0 Simulations running'. The left sidebar contains various icons for navigation, and the bottom of the screen shows a Windows taskbar with the system clock at 13:47 on 31-10-2022.

IBM Watson IoT Platform

Usage metrics show how much your devices and applications use Watson IoT Platform. You can view a summary of the total usage for this month and the previous month, and details of data transferred during different time periods. The metrics are refreshed every 2 hours.

Usage Summary

THIS MONTH
0 bytes
Data transferred inbound and outbound

PREVIOUS MONTH
0 bytes
Data transferred inbound and outbound

Data Transferred

Date Period (months)
1 3 6 Max from 27/10/2022

0 Simulations running

8. Browse Members of IBM Watson IoT Platform

The screenshot shows the 'Browse Members' page in the IBM Watson IoT Platform. The page header is similar to the previous screenshot, with the user profile '611719106301@smartinternz.com' and ID 'x5kgau'. The main content area features a 'Browse Members' section with a search bar labeled 'Type the member email to search for'. Below the search bar is a table with columns: 'Email Address', 'Name', 'Role', 'Added By', and 'Expires'. The table shows one result: a member with email '611719106301@smartinternz....', name '611719106301@smar...', role 'Administrator', and 'Added By' and 'Expires' fields set to '-'. A status box at the bottom right indicates '0 Simulations running'. The left sidebar contains various icons for navigation, and the bottom of the screen shows a Windows taskbar with the system clock at 13:47 on 31-10-2022.

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	
1 result						
<input type="checkbox"/>	611719106301@smartinternz....	611719106301@smar...	Administrator	-	-	

0 Simulations running

9. Browse API Keys of IBM Watson IoT Platform

IBM Watson IoT Platform

611719106301@smartinternz.com
ID: x5kgsu

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	
1 result					
<input type="checkbox"/>	a-x5kgsu-0uempmbswg	API Key for the device simulator	Standard Application	-	

0 Simulations running

10. Browse Device of IBM Watson IoT Platform

IBM Watson IoT Platform

611719106301@smartinternz.com
ID: x5kgsu

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

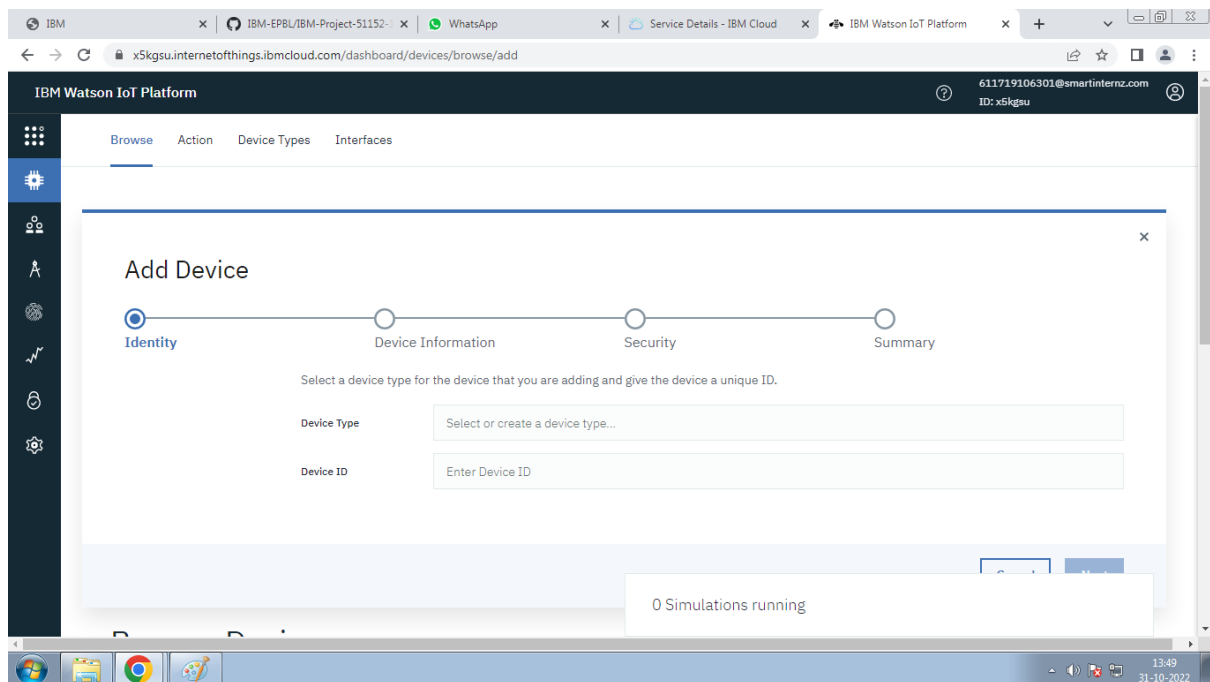
Device Simulator

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added
--------------------------	-----------	--------	-------------	----------	------------

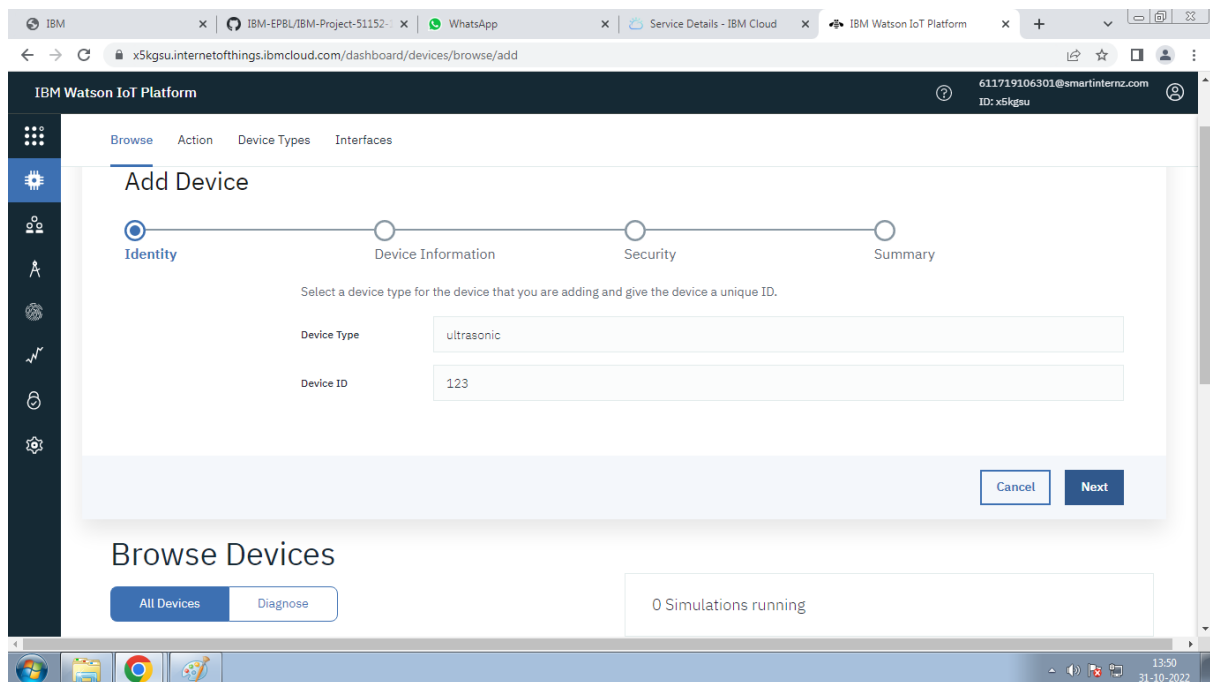
You don't have any devices yet

0 Simulations running

11. Click on Add Device Button



12. Enter the Device Type and Device ID



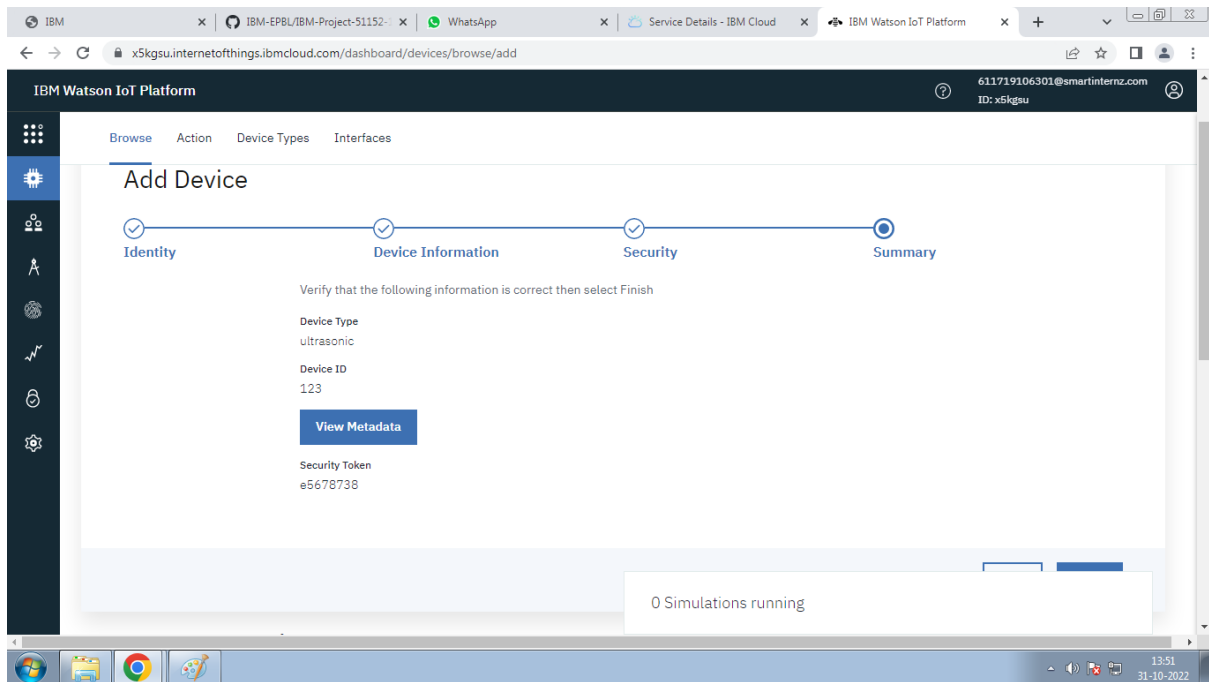
13. Can't Change the Device Information and Click Next Button

The screenshot shows the 'Add Device' page in the IBM Watson IoT Platform. The page has a dark blue header with the IBM logo and user information. A sidebar on the left contains icons for various functions. The main content area is titled 'Add Device' and features a progress bar with four steps: Identity, Device Information (current), 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.' The form contains several input fields: 'Serial Number', 'Model', 'Description', 'Hardware Version', 'Manufacturer', 'Device Class', 'Firmware Version', and 'Descriptive Location'. Each field has a placeholder text 'Enter [field name]'. There is an 'Add Metadata' button with a plus icon. At the bottom right, it says '0 Simulations running'.

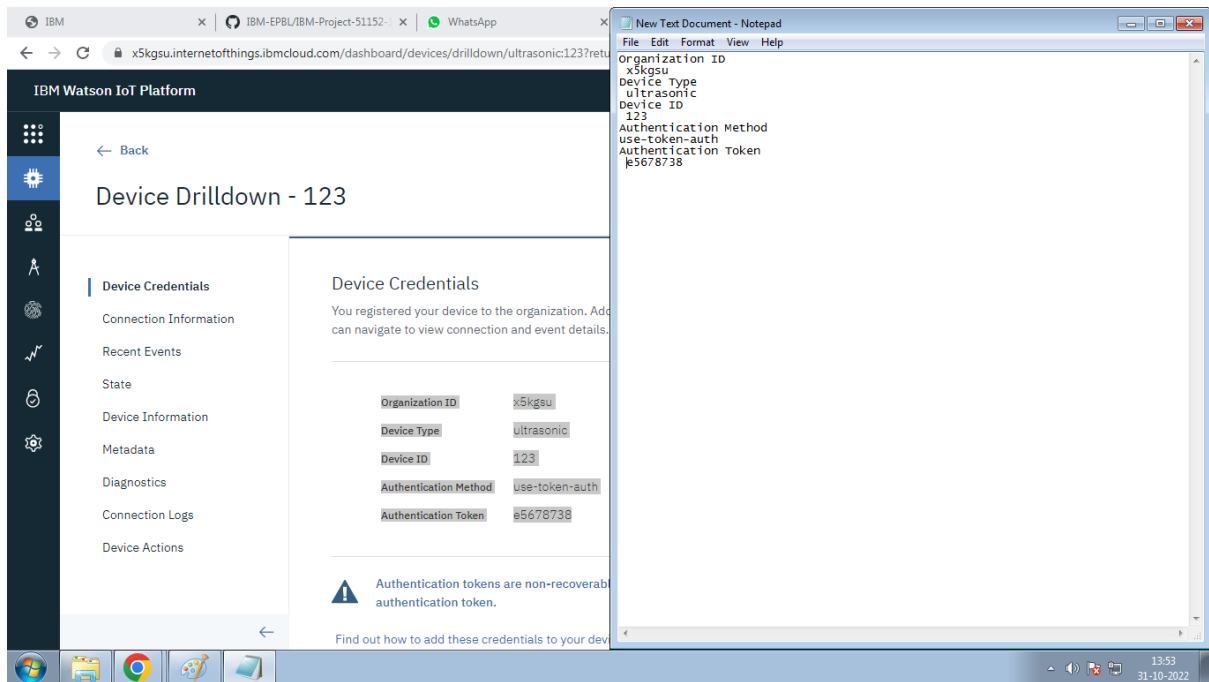
14. Enter the Authentication Code and Click Next Button

The screenshot shows the 'Add Device' page in the IBM Watson IoT Platform, specifically the 'Authentication Token' step. The progress bar indicates the current step is 'Authentication Token'. The main content area contains instructions: '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.' and '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 the instructions, there is an 'Authentication Token' input field with the value 'e5678738'. A tooltip is visible over the input field, stating: 'Make a note of the Authentication Token. tokens cannot be recovered. Tokens are encrypted before being stored. Authentication token are encrypted before we store them.' At the bottom right, there are 'Back' and 'Next' buttons. At the bottom left, it says 'Browse Devices' and '0 Simulations running'.

15. View Summary



16. Save the Device information(Note Pad)



17. Successfully Created Device and Turn ON the Simulation Device

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
123	Disconnected	ultrasonic	Device	31 Oct 2022 13:52

Items per page 50 | 1-1 of 1 item

1 of 1 page

0 Simulations running

18. Click New Cards

IBM Watson IoT Platform

Your boards Public boards

Create New Board

USAGE OVERVIEW

3 Cards

Owned by you

RISK AND SECURITY OVERVIEW

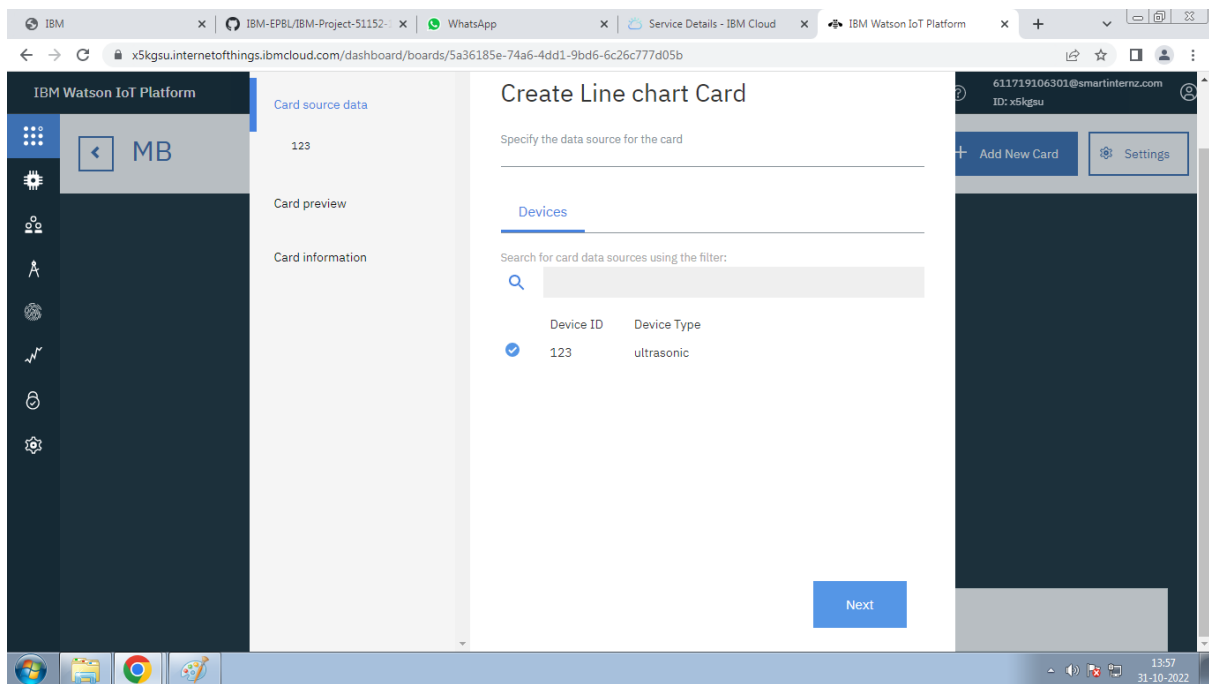
4 Cards

Owned by you

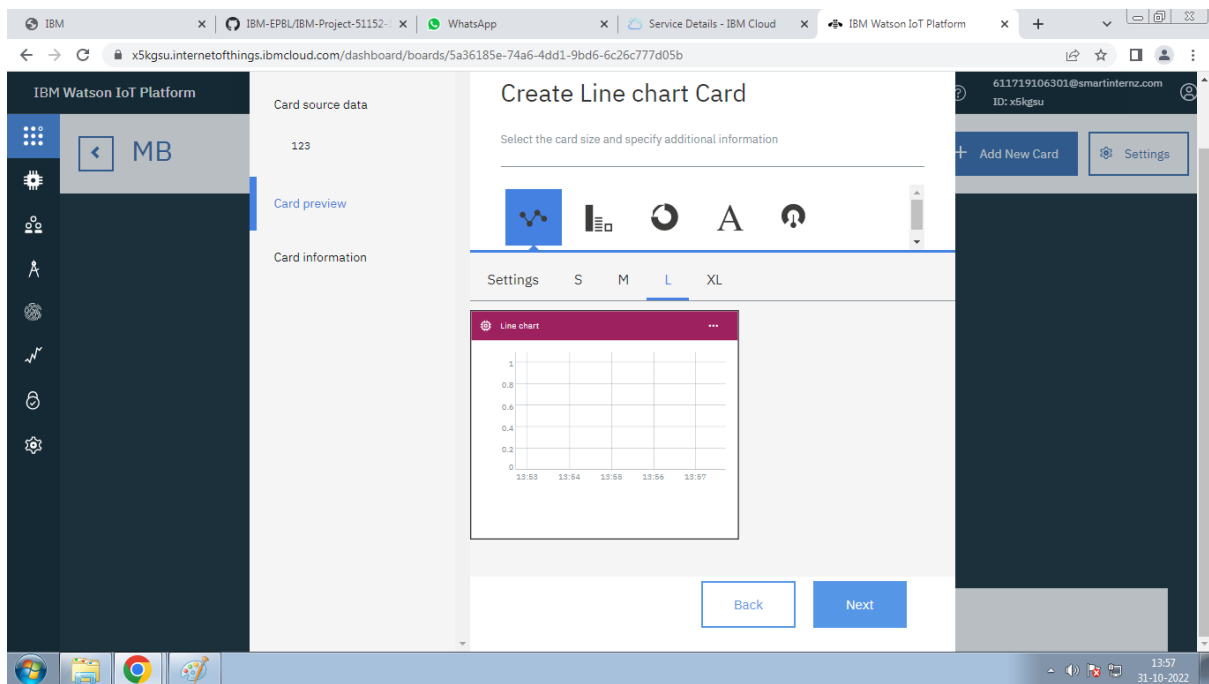
Boards shared with you

0 Simulations running

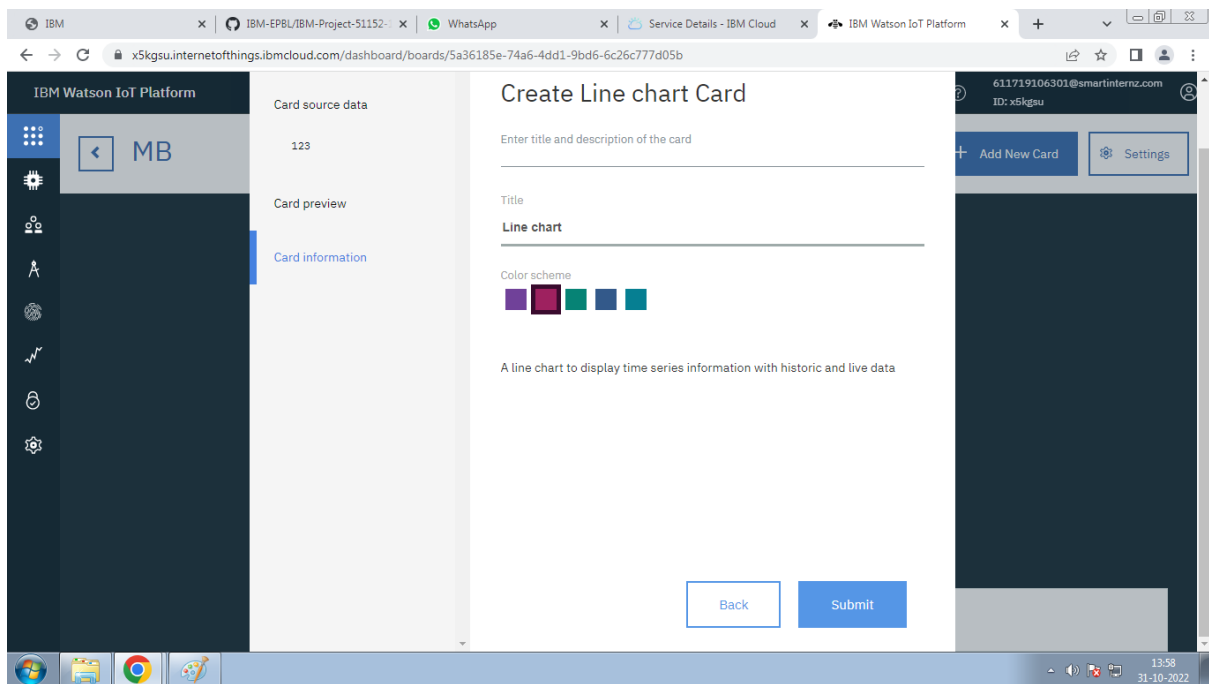
19. Create Line Chart Card and Select Device ID



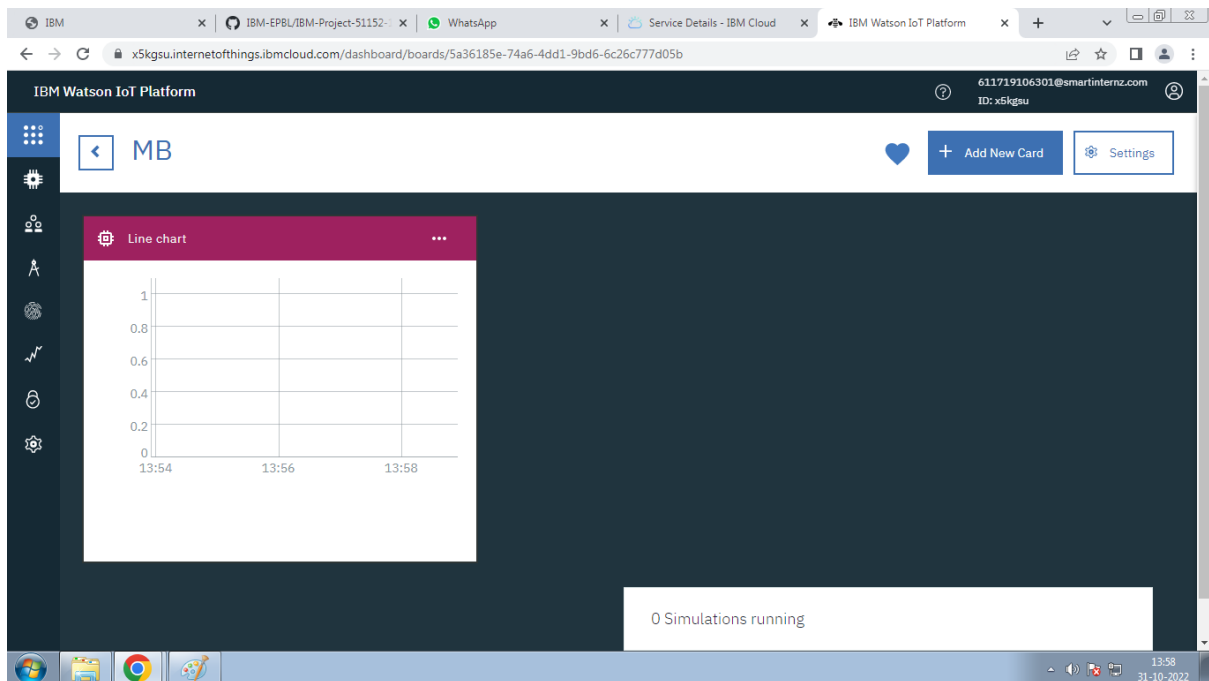
20. Click Card Design and Select the Size of Chart



21. Select the Colour



22. Successfully Created the Line Chart



Result:

An IBM Watson Cloud for IoT and a Line Chart