

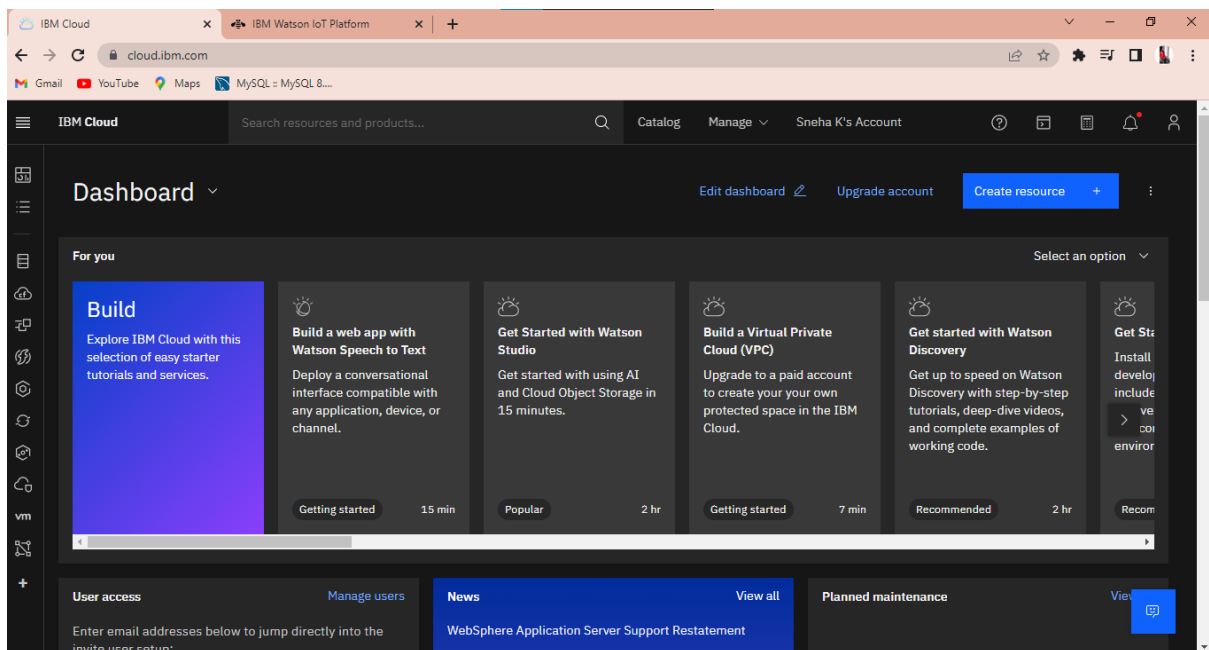
GAS LEAKAGE MONITORING & ALERTING SYSTEM FOR INDUSTRIES

CREATE IBM WATSON IOT PLATFORM AND DEVICE

Team ID	PNT2022TMID21717
Project Name	Project - Gas leakage monitoring and alerting system for industries

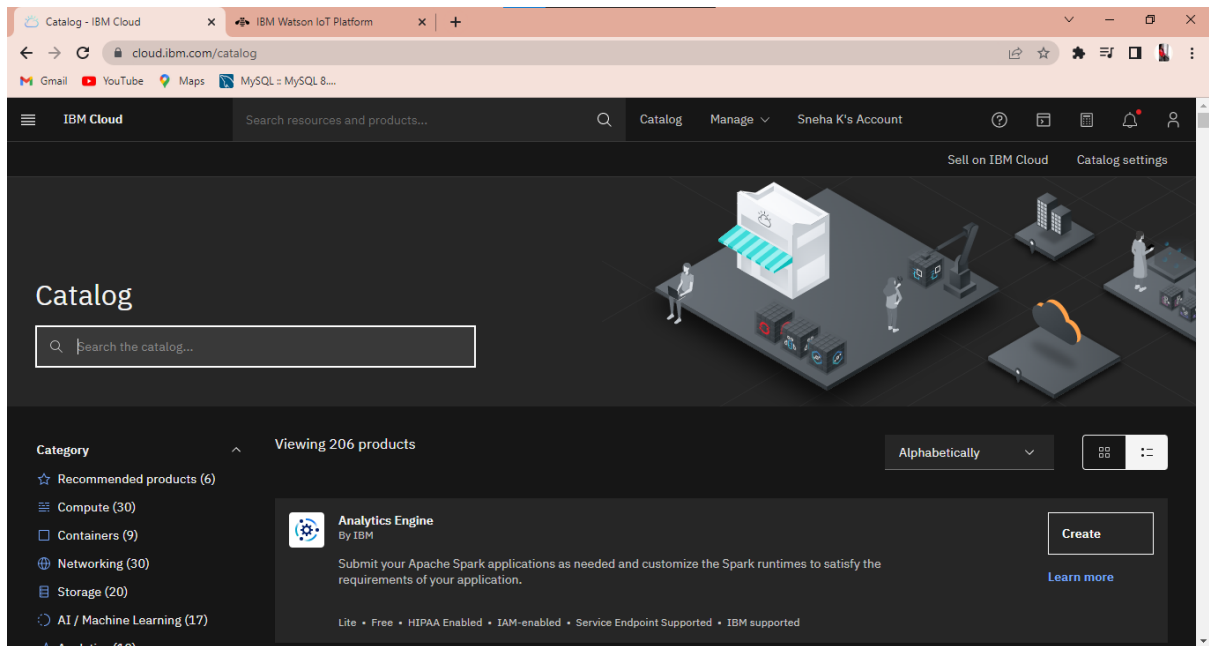
STEP 1 :

Creation of IBM cloud Account



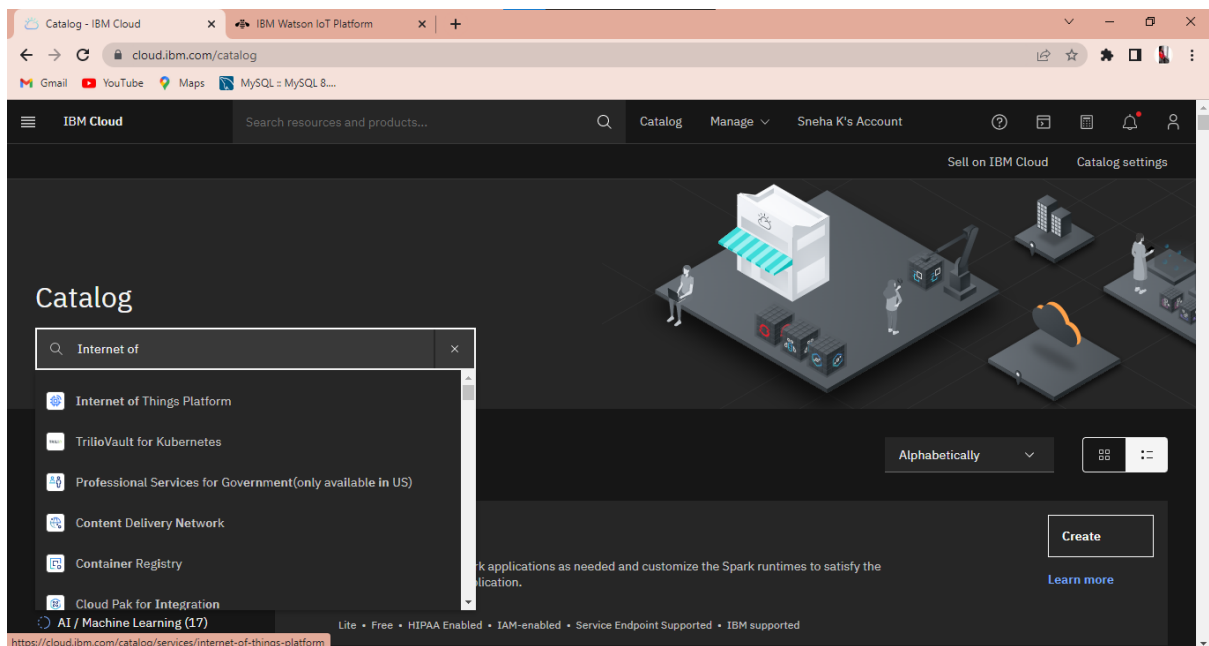
STEP 2 :

Click on the catalogue option



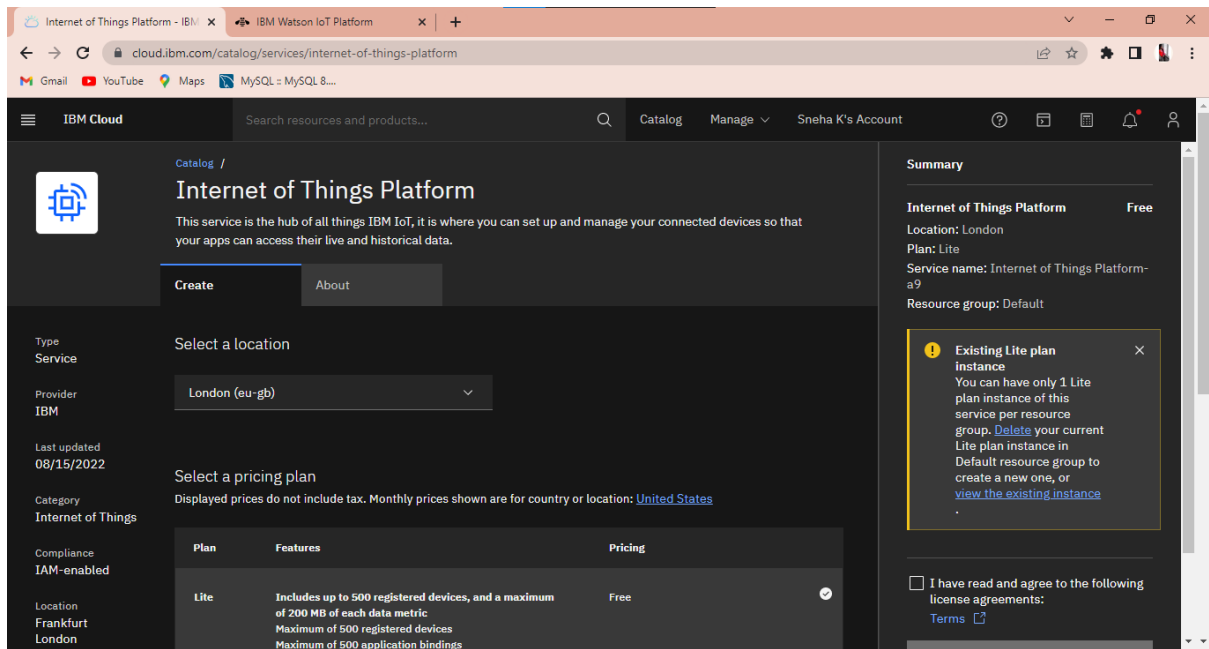
STEP 3 :

Click on Internet of things



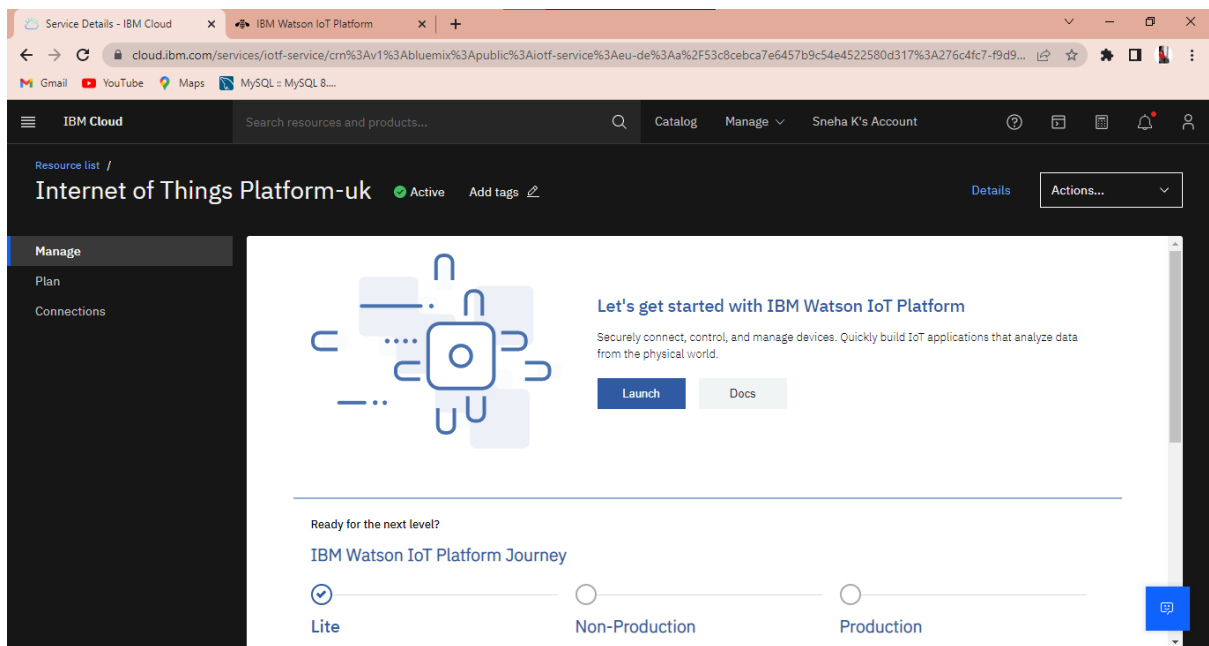
STEP 4

Click on the existing instance because already we have created an account.



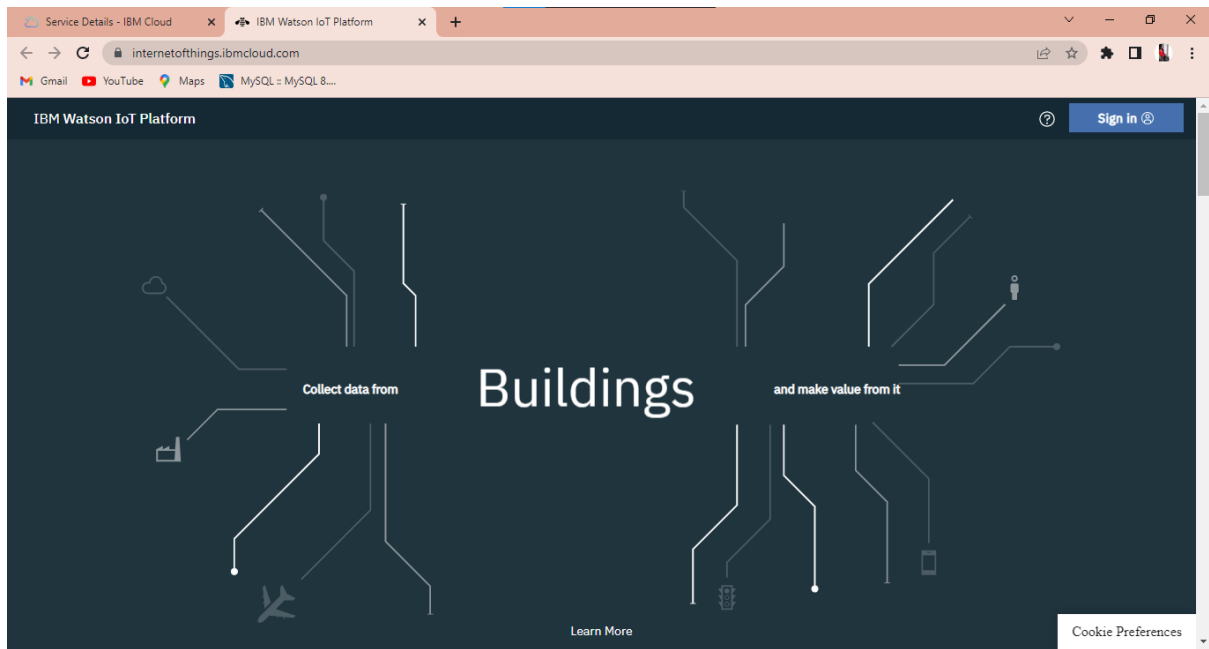
STEP 5

Click on launch to create IBM Watson account



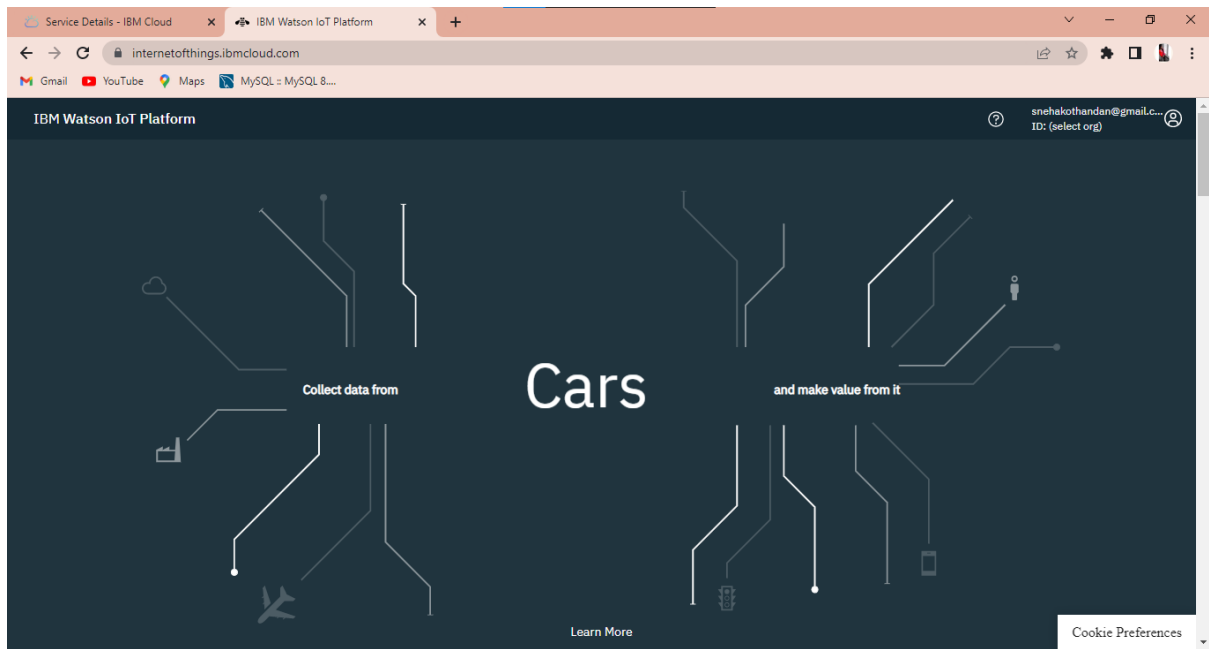
STEP 6

IBM Watson account is opened.



STEP 7

Sign in to the IBM Watson Account



Service Details - IBM Cloud

IBM Watson IoT Platform

← → ↻

ajy2eb.internetofthings.ibmcloud.com/dashboard/devices/browse

Gmail YouTube Maps MySQL - MySQL 8...

IBM Watson IoT Platform

?

snehakothandan@gmail.com

ID: ajy2eb

?

+

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.

Q Search by Device ID

Device Simulator

☐

Device ID

☐

Status

☐

Device Type

☐

Class ID

☐

Date Added

>

☐

123456

☐

Disconnected

☐

Project1

☐

Device

☐

Nov 9, 2022 10:58 PM

Items per page 50 | 1-1 of 1 item

1 Simulation running

Service Details - IBM Cloud

IBM Watson IoT Platform

← → ↻

ajy2eb.internetofthings.ibmcloud.com/dashboard/devices/browse/add

Gmail YouTube Maps MySQL - MySQL 8...

IBM Watson IoT Platform

?

snehakothandan@gmail.com

ID: ajy2eb

?

+

Browse

Action

Device Types

Interfaces

Add Device

Identity

Device Information

Security

Summary

Select a device type for the device that you are adding and give the device a unique ID.

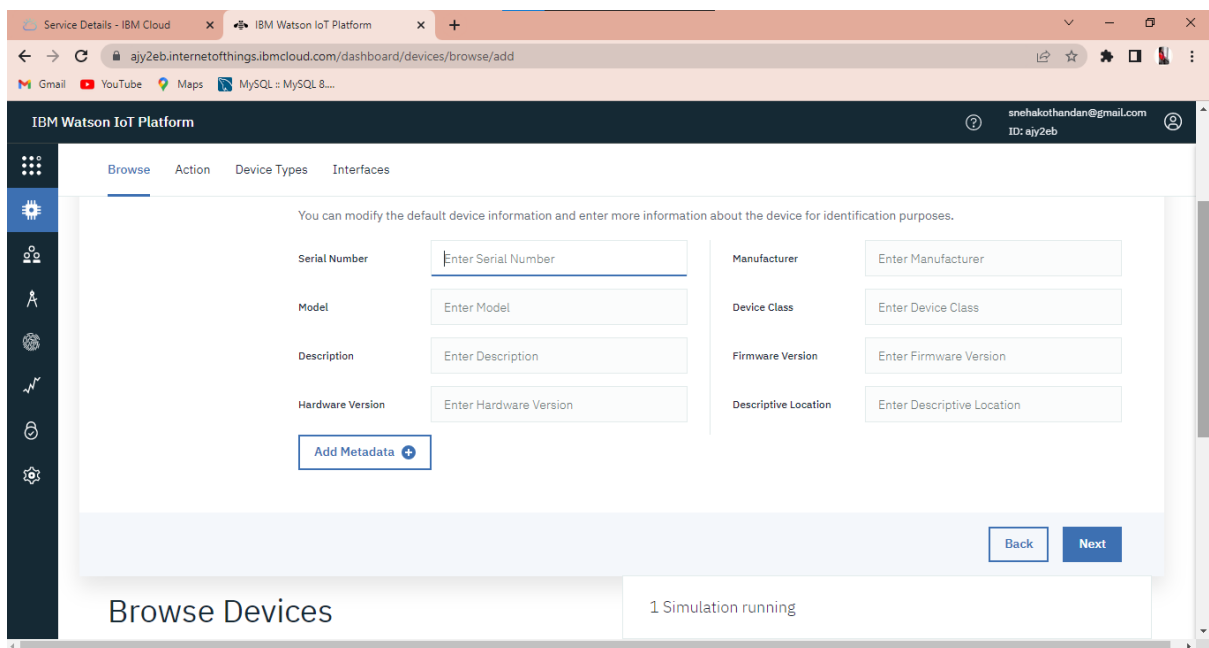
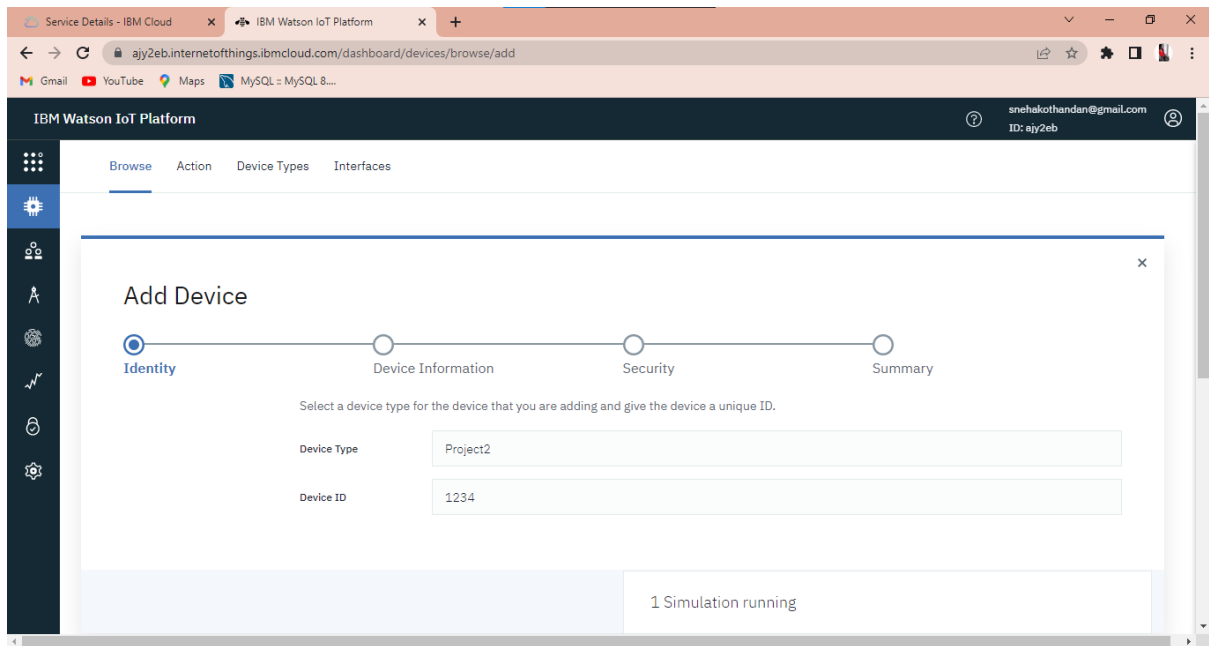
Device Type

Select or create a device type...

Device ID

Enter Device ID

1 Simulation running



Service Details - IBM Cloud x IBM Watson IoT Platform x +

← → ↻ aiy2eb.internetofthings.ibmcloud.com/dashboard/devices/browse/add

Gmail YouTube Maps MySQL : MySQL 8...

IBM Watson IoT Platform snehakothehandan@gmail.com ID: aiy2eb

Browse Action Device Types Interfaces

There are 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.

Authentication Token 12345678 ⓘ

Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored.

Authentication token are encrypted before we store them.

1 Simulation running

Service Details - IBM Cloud x IBM Watson IoT Platform x +

← → ↻ aiy2eb.internetofthings.ibmcloud.com/dashboard/devices/browse/add

Gmail YouTube Maps MySQL : MySQL 8...

IBM Watson IoT Platform snehakothehandan@gmail.com ID: aiy2eb

Browse Action Device Types Interfaces

Add Device

✓ Identity ✓ Device Information ✓ Security ● Summary

Verify that the following information is correct then select Finish

Device Type
Project2

Device ID
1234

[View Metadata](#)

Security Token
12345678

1 Simulation running

Service Details - IBM Cloud

IBM Watson IoT Platform

ajy2eb.internetofthings.ibmcloud.com/dashboard/devices/drilldown/Project2:1234?returnTo=/devices/browse

GmailYouTubeMapsMySQL = MySQL 8...

IBM Watson IoT Platform

snehakothandan@gmail.comID: ajy2eb

Back

Device Drilldown - 1234

Device Credentials

Connection Information

Recent Events

State

Device Information

Metadata

Diagnostics

Connection Logs

Device Actions

Device Credentials

You registered your device to the organization. Add these credentials to the device to connect it to the platform. After the device is connected, you can navigate to view connection and event details.

Organization ID

ajy2eb

Device Type

Project2

Device ID

1234

Authentication Method

use-token-auth

Authentication Token

12345678

Authentication tokens are non-recoverable. authentication token.

1 Simulation running

Service Details - IBM Cloud

IBM Watson IoT Platform

ajy2eb.internetofthings.ibmcloud.com/dashboard/devices/browse

GmailYouTubeMapsMySQL = MySQL 8...

IBM Watson IoT Platform

snehakothandan@gmail.comID: ajy2eb

Browse

Action

Device Types

Interfaces

Add Device +

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

101

	Device ID	Status	Device Type	Class ID	Date Added
>	1234	Disconnected	Project2	Device	Nov 14, 2022 7:18 PM
>	123456	Disconnected	Project1	Device	Nov 9, 2022 10:58 PM

Items per page 50 | 1-2 of 2 items

1 of 1 page

<

1

>

1 Simulation running

Service Details - IBM Cloud x IBM Watson IoT Platform x +

ajy2eb.internetofthings.ibmcloud.com/dashboard/devices/browse

Gmail YouTube Maps MySQL - MySQL 8...

IBM Watson IoT Platform

Browse Action Device Types Interfaces

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device ID	Status	Device Type
1234	Disconnected	Project2
123456	Disconnected	Project1

Items per page 50 | 1-2 of 2 items

Simulations

1/50 Simulations Running

+ New Simulation

Device Type Project1

1 Event

1 Device

123456

1 x Create Simulated Device Use Registered Device

Service Details - IBM Cloud x IBM Watson IoT Platform x +

ajy2eb.internetofthings.ibmcloud.com/dashboard/devices/browse

Gmail YouTube Maps MySQL - MySQL 8...

IBM Watson IoT Platform

Browse Action Device Types Interfaces

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device ID	Status	Device Type
1234	Disconnected	Project2
123456	Disconnected	Project1

Items per page 50 | 1-2 of 2 items

Device Type: Project2

Events 1

New event type +

Event type name event_1 Send

Schedule 20 Every Minute

Payload

Specify the event payload in the editor window or by uploading a CSV file.

```
0 {
1   "randomNumber": random(0, 100)
2 }
3
```

Upload a CSV file

What functions can I apply?

Service Details - IBM Cloud x IBM Watson IoT Platform x +

ajy2eb.internetofthings.ibmcloud.com/dashboard/devices/browse

Gmail YouTube Maps MySQL : MySQL 8...

IBM Watson IoT Platform

Browse Action Device Types Interfaces

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, criteria. To get started, you can add devices by using the Add Device button, or by using API.

Q Search by Device ID

<input type="checkbox"/>	Device ID	Status	Device Type
>	<input type="checkbox"/> 1234	Disconnected	Project2
>	<input type="checkbox"/> 123456	Disconnected	Project1

Items per page 50 | 1-2 of 2 items

Device Type: Project2

Payload

Specify the event payload in the editor window or by uploading a [CSV file](#).

```
0 {
1   "randomNumber": random(0, 100),
2   "temp" : random(10, 80),
3   "hum" : random(80, 100)
4 }
5
```

[Upload a CSV file](#)

[What functions can I apply?](#)

Cancel Save

Service Details - IBM Cloud x IBM Watson IoT Platform x +

ajy2eb.internetofthings.ibmcloud.com/dashboard/devices/browse

Gmail YouTube Maps MySQL : MySQL 8...

IBM Watson IoT Platform

Browse Action Device Types Interfaces

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, criteria. To get started, you can add devices by using the Add Device button, or by using API.

Q Search by Device ID

<input type="checkbox"/>	Device ID	Status	Device Type
>	<input type="checkbox"/> 1234	Disconnected	Project2
>	<input type="checkbox"/> 123456	Disconnected	Project1

Items per page 50 | 1-2 of 2 items

Simulations

[Import/Export simulation](#)

2/50 Simulations Running [+ New Simulation](#)

Device Type Project2

1 Device

☐ 1234

1 x [Create Simulated Device](#) [Use Registered Device](#)

Device Type Project1

1 Device

☐ 123456

1 x [Create Simulated Device](#) [Use Registered Device](#)

Service Details - IBM Cloud x IBM Watson IoT Platform x +

← → ↻ aiy2eb.internetofthings.ibmcloud.com/dashboard/devices/browse

Gmail YouTube Maps MySQL = MySQL 8...

IBM Watson IoT Platform snehakothandan@gmail.com ID: aiy2eb

Browse Action Device Types Interfaces Add Device +

1234 Disconnected Project2 Device Nov 14, 2022 7:18 PM → ...

Identity Device Information **Recent Events** State Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
Pro2	{"randomNumber":9,"temp":14,"hum":94}	json	a few seconds ago
Pro2	{"randomNumber":32,"temp":49,"hum":98}	json	a few seconds ago

> 123456 Disconnected Project1 2 Simulations running

Items per page 50 | 1-2 of 2 items

Service Details - IBM Cloud x IBM Watson IoT Platform x +

← → ↻ aiy2eb.internetofthings.ibmcloud.com/dashboard/boards/

Gmail YouTube Maps MySQL = MySQL 8...

IBM Watson IoT Platform snehakothandan@gmail.com ID: aiy2eb

Your boards Public boards + Create New Board

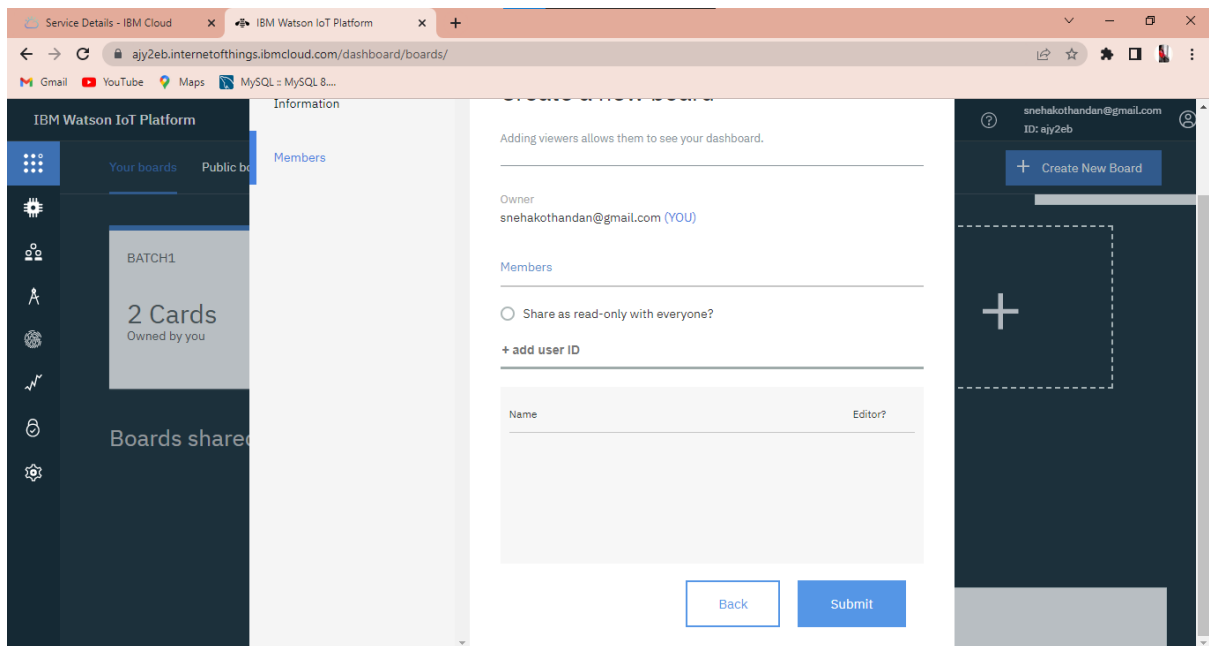
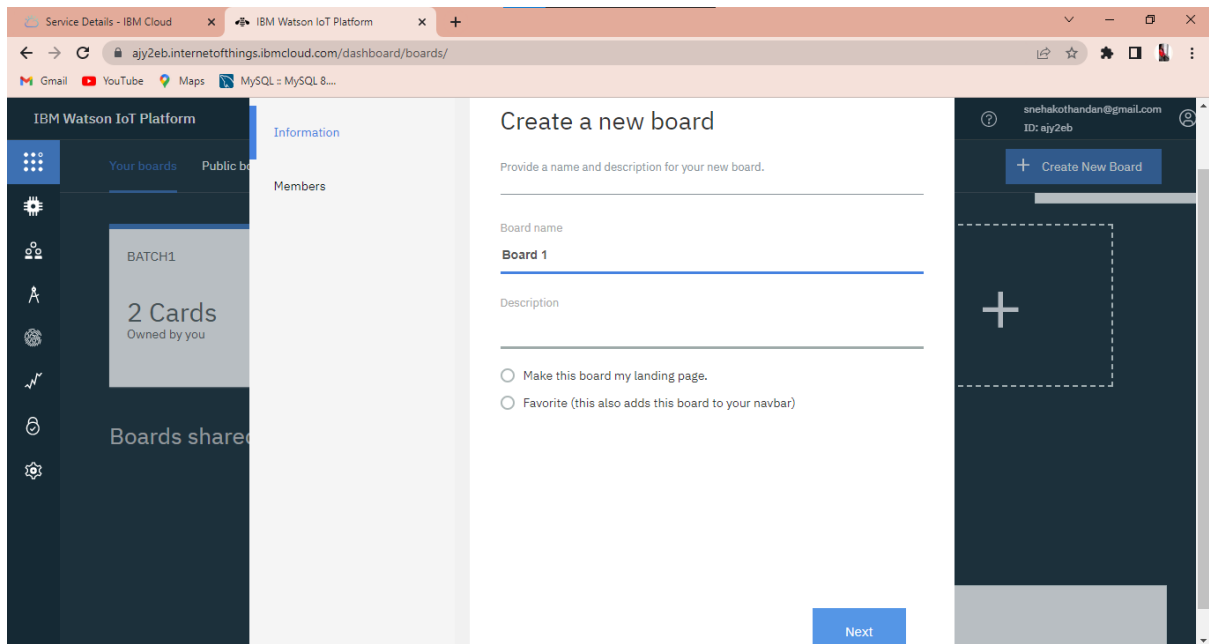
BATCH1 2 Cards Owned by you

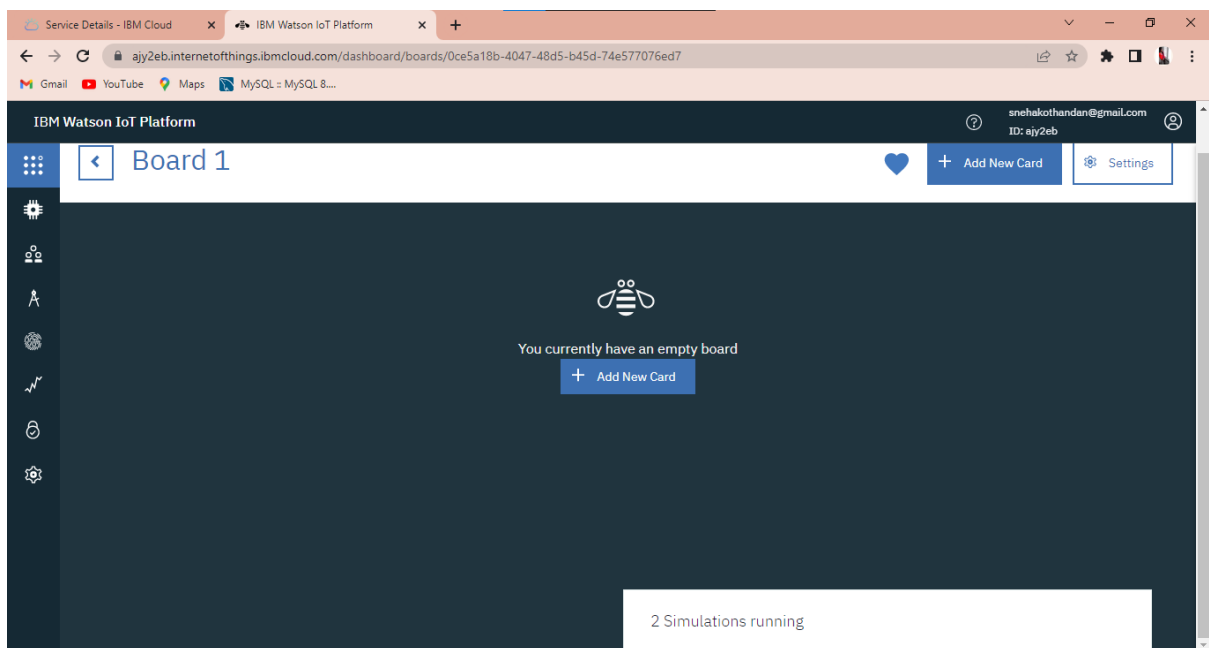
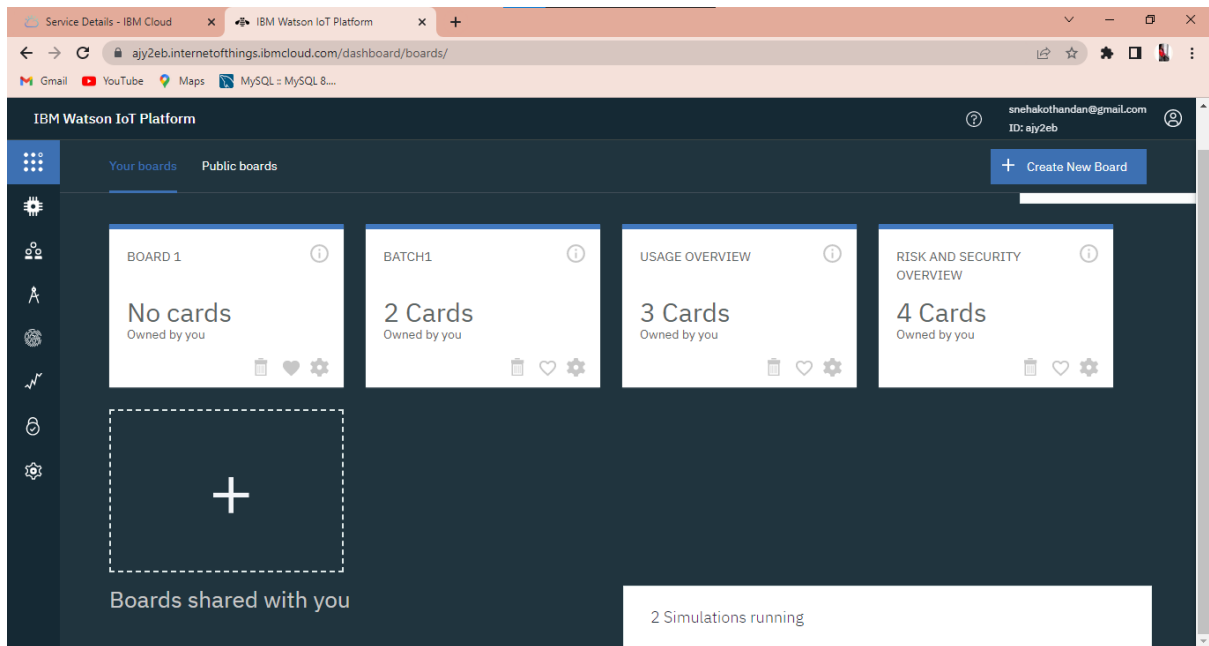
USAGE OVERVIEW 3 Cards Owned by you

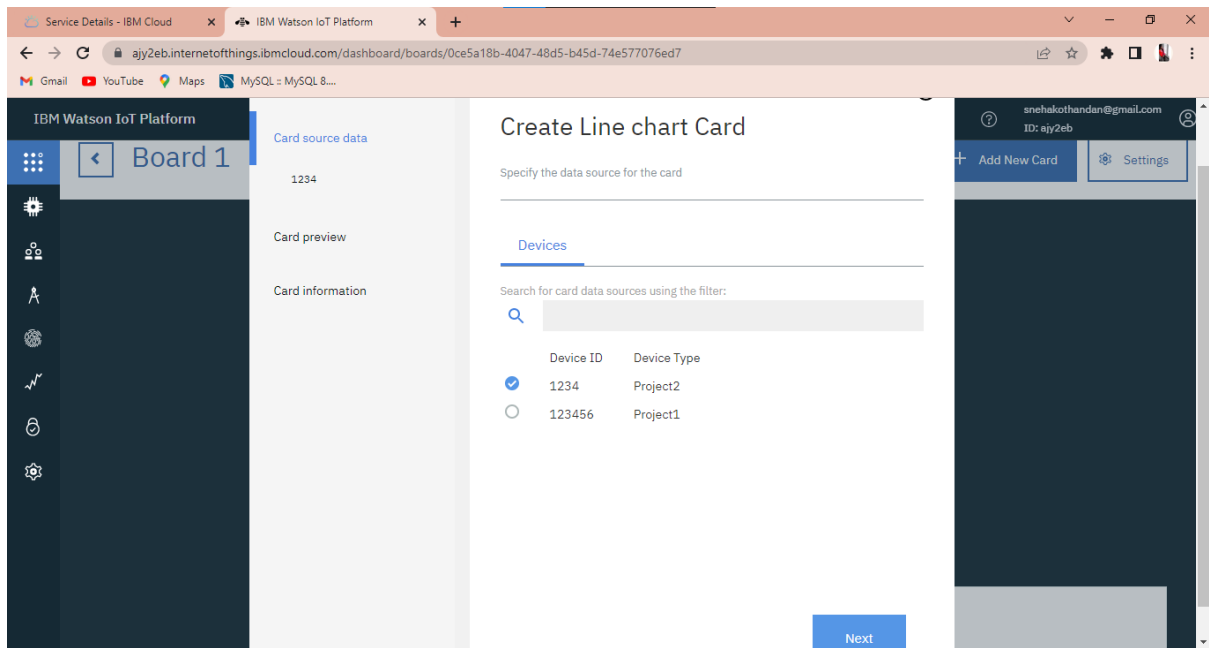
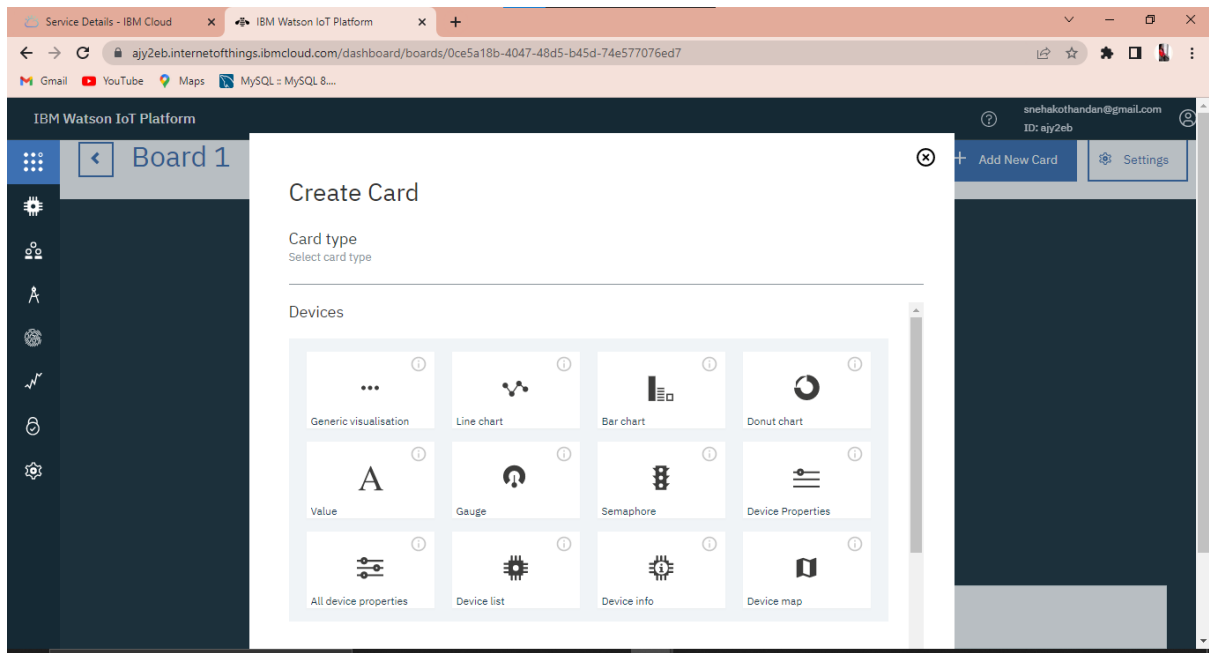
RISK AND SECURITY OVERVIEW 4 Cards Owned by you

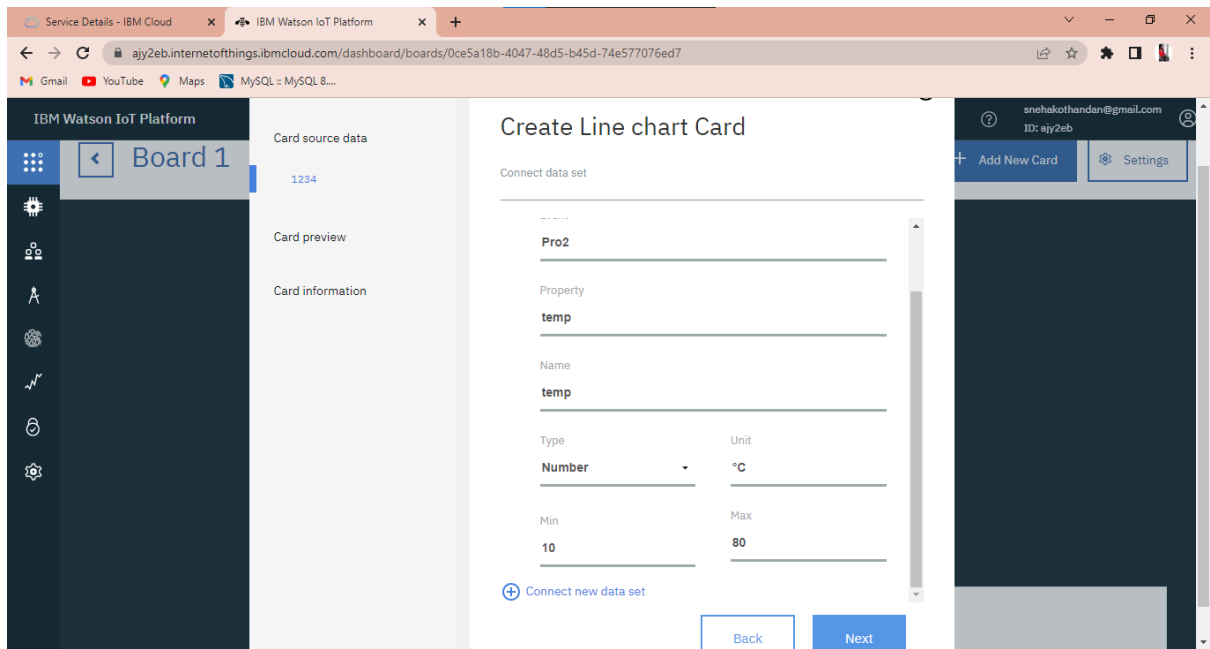
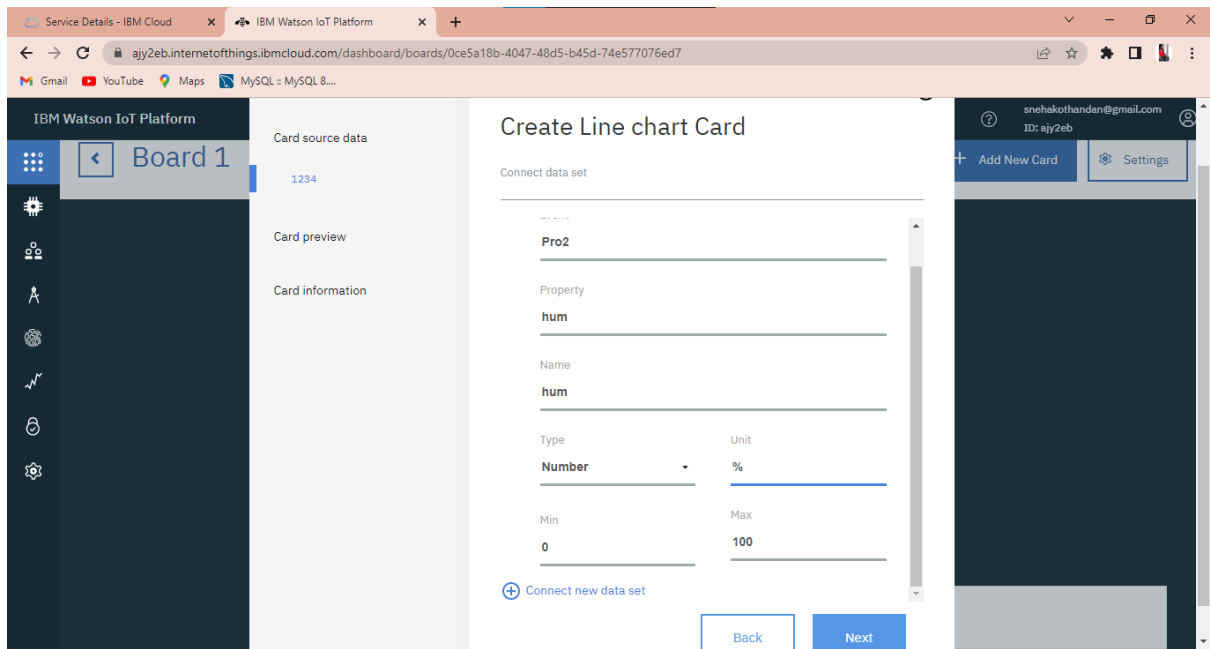
Boards shared with you

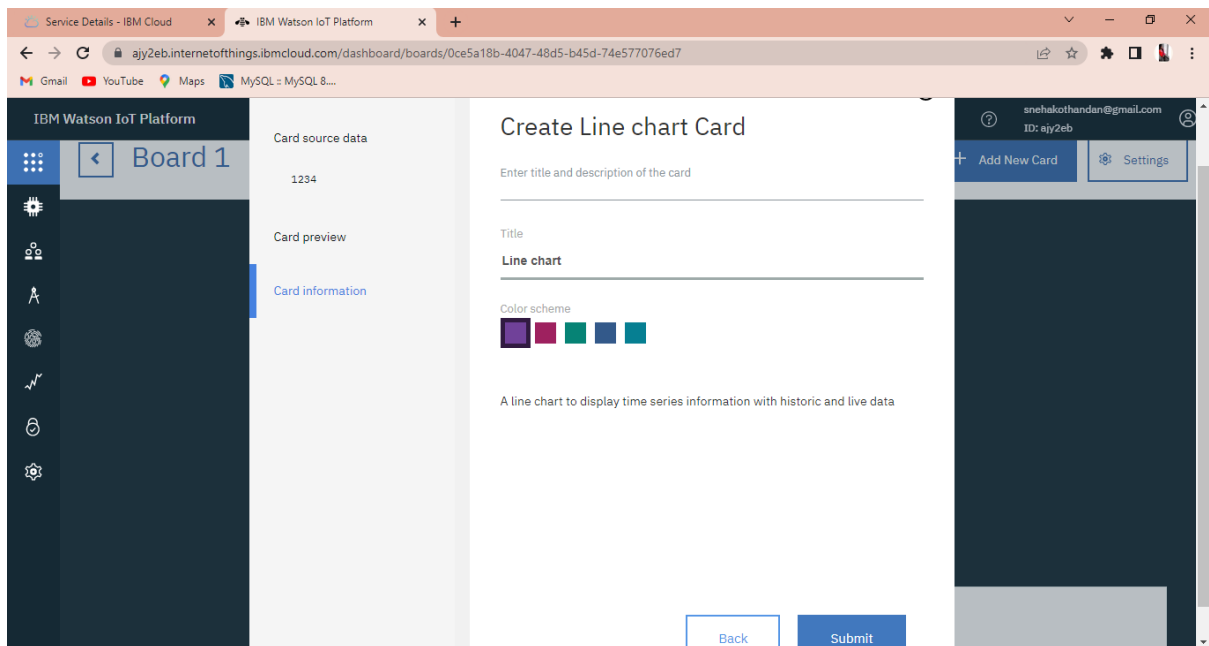
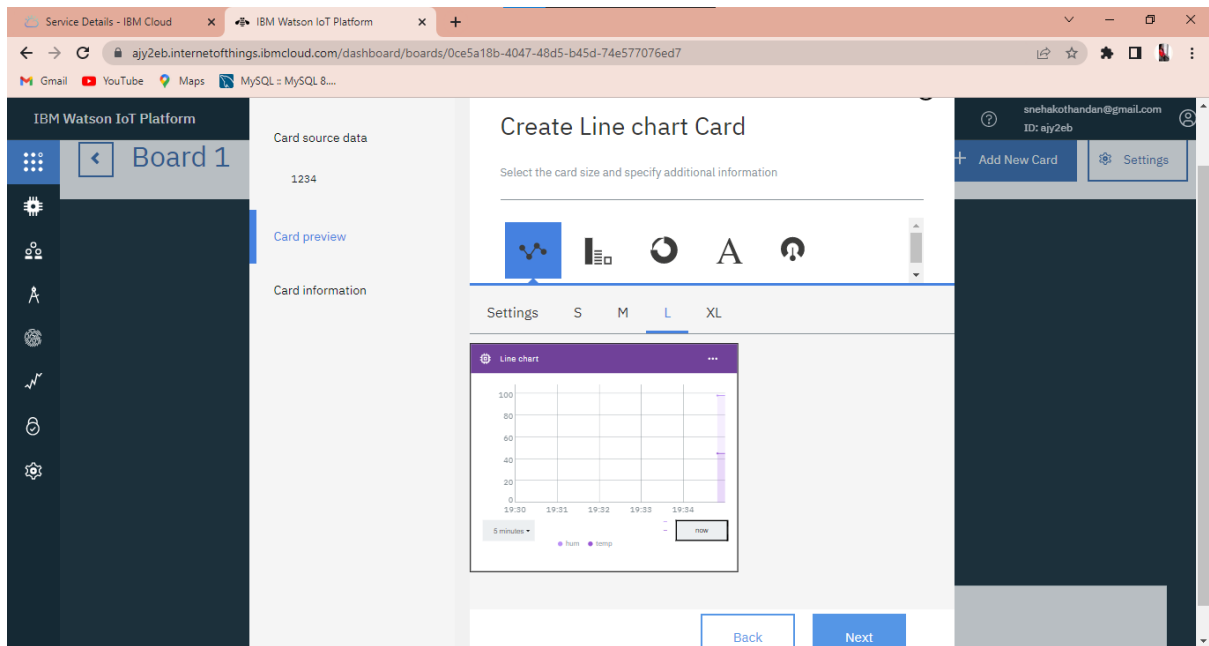
2 Simulations running

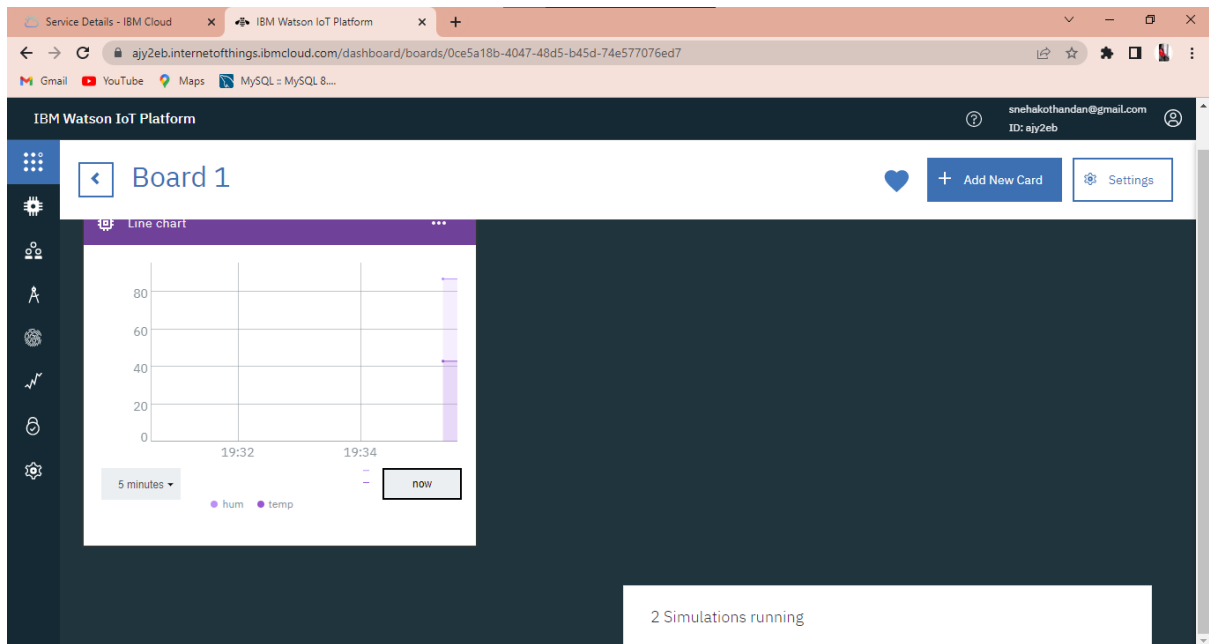












Service Details - IBM Cloud x IBM Watson IoT Platform x +

← → ↻ aiy2eb.internetofthings.ibmcloud.com/dashboard/boards/0ce5a18b-4047-48d5-b45d-74e577076ed7

Gmail YouTube Maps MySQL - MySQL 8...

IBM Watson IoT Platform snehakothandan@gmail.com ID: aiy2eb

Board 1

Line chart

80
60
40
20
0

19:32

5 minutes hum

Create Donut chart Card

Specify the data source for the card

Devices

Search for card data sources using the filter:

Device ID	Device Type
<input checked="" type="radio"/> 1234	Project2
<input type="radio"/> 123456	Project1

Next

Service Details - IBM Cloud x IBM Watson IoT Platform x +

← → ↻ aiy2eb.internetofthings.ibmcloud.com/dashboard/boards/0ce5a18b-4047-48d5-b45d-74e577076ed7

Gmail YouTube Maps MySQL = MySQL 8...

IBM Watson IoT Platform

Board 1 1234

Line chart

100
80
60
40
20
0

19:32

5 minutes

hum

Card source data 1234

Card preview

Card information

Create Donut chart Card

Connect data set

Pro2

Property
hum

Name
hum

Type
Number

Unit
%

Min
0

Max
100

⊕ Connect new data set

Back Next

snehakothandan@gmail.com
ID: aiy2eb

+ Add New Card ⚙ Settings

Service Details - IBM Cloud x IBM Watson IoT Platform x +

← → ↻ aiy2eb.internetofthings.ibmcloud.com/dashboard/boards/0ce5a18b-4047-48d5-b45d-74e577076ed7

Gmail YouTube Maps MySQL = MySQL 8...

IBM Watson IoT Platform

Board 1 1234

Line chart

100
80
60
40
20
0

19:32

5 minutes

hum

Card source data 1234

Card preview

Card information

Create Donut chart Card

Connect data set

Pro2

Property
temp

Name
temp

Type
Number

Unit
°C

Min
10

Max
80

⊕ Connect new data set

Back Next

snehakothandan@gmail.com
ID: aiy2eb

+ Add New Card ⚙ Settings

Service Details - IBM Cloud

IBM Watson IoT Platform

ajy2eb.internetofthings.ibmcloud.com/dashboard/boards/0ce5a18b-4047-48d5-b45d-74e577076ed7

Gmail

YouTube

Maps

MySQL = MySQL 8...

IBM Watson IoT Platform

Board 1

Line chart

100

80

60

40

20

0

19:34

5 minutes

hum

Card source data

1234

Card preview

Card information

Create Donut chart Card

Select the card size and specify additional information

A

S

M

L

XL

Donut chart

Total

117

%

hum

97.0 %

temp

20.0 °C

Back

Next

snehakothandan@gmail.com

ID: ajy2eb

Add New Card

Settings

Service Details - IBM Cloud

IBM Watson IoT Platform

ajy2eb.internetofthings.ibmcloud.com/dashboard/boards/0ce5a18b-4047-48d5-b45d-74e577076ed7

Gmail

YouTube

Maps

MySQL = MySQL 8...

IBM Watson IoT Platform

Board 1

Line chart

100

80

60

40

20

0

19:34

5 minutes

hum

Card source data

1234

Card preview

Card information

Create Donut chart Card

Enter title and description of the card

Title

Donut chart

Color scheme

Donut chart to visualize the proportion data points

Back

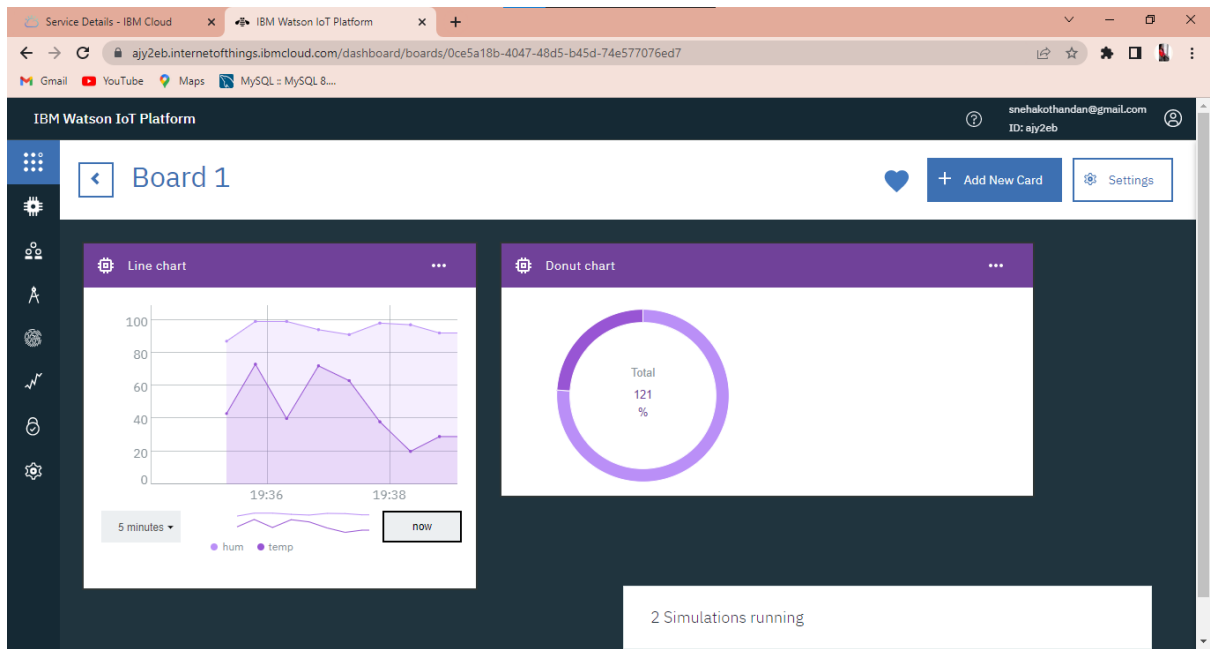
Submit

snehakothandan@gmail.com

ID: ajy2eb

Add New Card

Settings



Service Details - IBM Cloud x IBM Watson IoT Platform x +

← → ↻ aiy2eb.internetofthings.ibmcloud.com/dashboard/boards/0ce5a18b-4047-48d5-b45d-74e577076ed7

Gmail YouTube Maps MySQL = MySQL 8...

IBM Watson IoT Platform

snehakothandan@gmail.com ID: aiy2eb

Board 1

+ Add New Card ⚙ Settings

Line chart

100
80
60
40
20
0

19:36 19:38

5 minutes

hum

Card source data

1234

Card preview

Card information

Connect data set

- hum
- temp
- randomNumber

Event

Pro2

Property

randomNumber

Name

randomNumber

Type

Text

Unit

Back Next

Service Details - IBM Cloud x IBM Watson IoT Platform x +

ajy2eb.internetofthings.ibmcloud.com/dashboard/boards/0ce5a18b-4047-48d5-b45d-74e577076ed7

Gmail YouTube Maps MySQL = MySQL 8...

IBM Watson IoT Platform

Board 1

1234

Card source data

Card preview

Card information

Line chart

5 minutes

hum temp

Connect data set

- hum
- temp
- randomNumber

Event

Pro2

Property

randomNumber

Name

randomNumber

Type

Text

Unit

Back Next

snehakothandan@gmail.com ID: ajy2eb

+ Add New Card Settings

Service Details - IBM Cloud x IBM Watson IoT Platform x +

ajy2eb.internetofthings.ibmcloud.com/dashboard/boards/0ce5a18b-4047-48d5-b45d-74e577076ed7

Gmail YouTube Maps MySQL = MySQL 8...

IBM Watson IoT Platform

Board 1

Line chart

1 minute

hum temp randomNumber

now

Donut chart

Total 235 %

2 Simulations running

snehakothandan@gmail.com ID: ajy2eb

+ Add New Card Settings