

## CREATE IBM WATSON IOT PLATFORM AND DEVICE

Project name	IOT Based Smart Crop Protection System for Agriculture
Team ID	PNT2022TMID35045

To create the IBM Watson IOT platform and device

STEP1: create an IBM cloud account with the individual IBM id and password

IBM Cloud

Log in to IBM Cloud

Don't have an account? [Create an account](#)

Sign in with:

IBMId

[Continue](#)

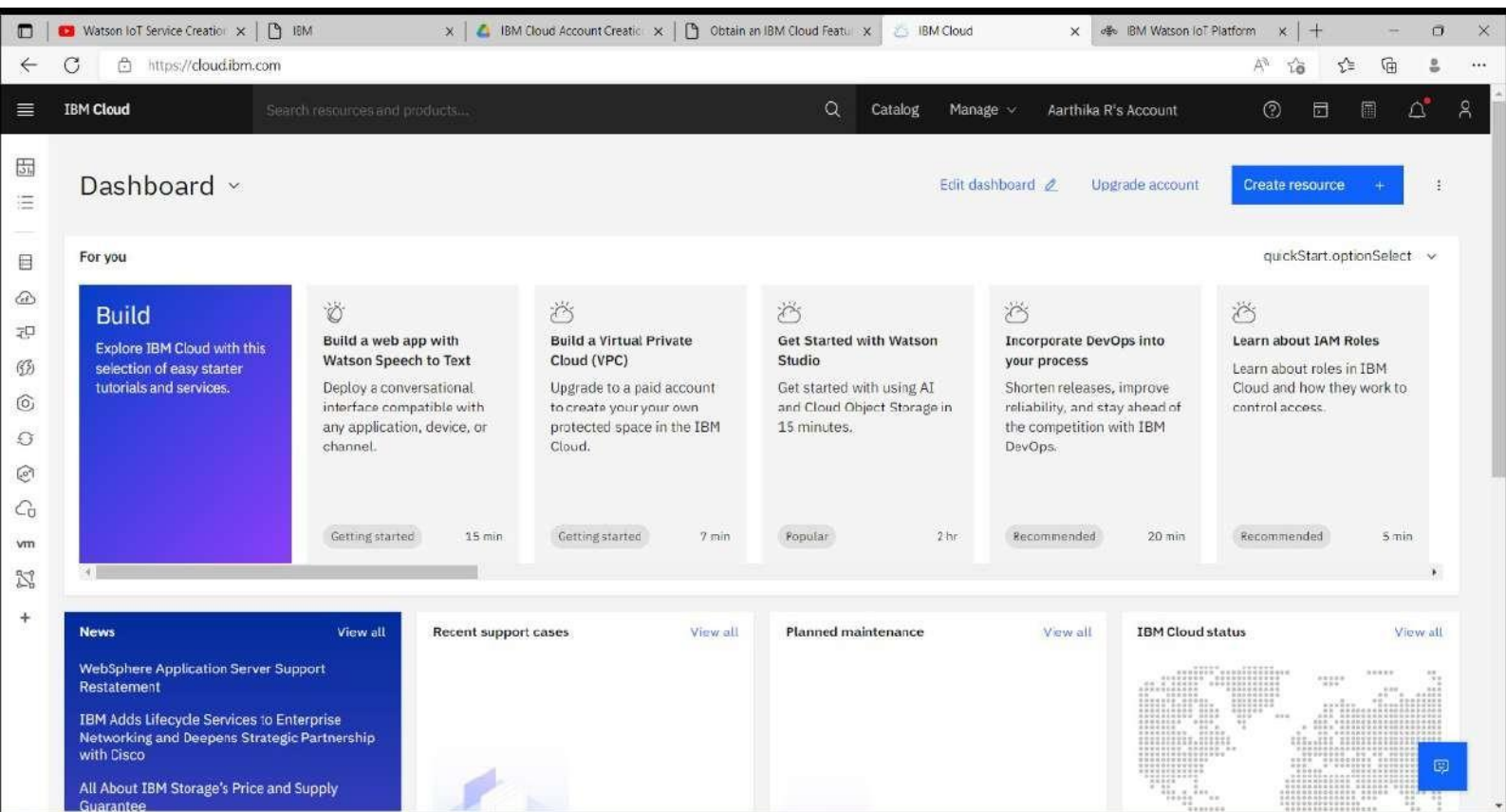
[Forgot ID?](#)

☐ Remember ID

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[Cookie Preferences](#)

STEP2: Home page of IBM cloud



STEP3:Click on the catalog on the top

Programming / C xIBMIBM Cloud Account xObtain an IBM Cloud Catalog - IBM CloudObtain an IBM CloudIBM CloudIBM CloudAccount x

https://cloud.ibm.com/catalog

IBM CloudSearch resources and products...CatalogManageAarthika R's Account

Sell on IBM CloudCatalog settings

# Catalog

Search the catalog...

Category

Viewing 206 products

Alphabetically

Recommended products (6)

Compute (30)

Containers (9)

Networking (30)

Storage (20)


AI / Machine learning (17)

Analytics (10)

Blockchain (1)

Databases (28)

Developer tools (25)




### Analytics Engine

By IBM

Submit your Apache Spark applications as needed and customize the Spark runtimes to satisfy the requirements of your application.

Lite • Free • HIPAA Enabled • IAM-enabled • Service Endpoint Supported • IBM supported




### AnonTech Vizivault Platform

By Anon Technology, Inc.

Manage personal information as-a-service safely, securely, and in compliance with data privacy regulations using Vizivault.

Lite • Free • HIPAA Enabled • IAM-enabled • Third party supported



### API Connect

By IBM

An enterprise-grade platform for creating, securing, managing, sharing, monetizing, and analyzing custom APIs located on-premises and on the cloud.

Lite • Free • EU Supported • IAM-enabled • IBM supported

STEP4:Click on IOT in the category mentioned

Watson IoT Service Creation - Yo x

IBM x

IBM Cloud Account Creation Pro x

Obtain an IBM Cloud Feature Co x

Internet of Things Platform - IBM x

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


IBM Cloud

Search resources and products...

Catalog

Manage

Aarthika R's Account



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

Last updated  
08/15/2022

Category  
Internet of Things

Compliance  
IAM-enabled

Location  
Frankfurt  
London  
Dallas  
Washington DC

Related links  
[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	<b>Includes up to 500 registered devices, and a maximum of 200 MB of each data metric</b> 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: Frankfurt

Plan: Lite

Service name: Internet of Things Platform-u7

Resource group: Default

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

[Terms](#)

Create

Add to estimate

STEP5: Internet of Things Platform Child\_safety will be created, when there are different options like Manage, plan, and connection

Watson IoT Service Creation - Yo

IBM

IBM Cloud Account Creation Pro

Obtain an IBM Cloud Feature Co

Service Details - IBM Cloud

https://cloud.ibm.com/services/iotf-service/cm%3Av1%3Abluemix%3Apublic%3Aotf-service%3Aeu-de%3Aa%2Fc9e5c4ea0a21497d85fb266c9016ea5%3A33a903a7-7015-4d65-91...

IBM Cloud

Search resources and products...

Catalog

Manage

Aarthika R's Account

?

Resource list

Internet of Things Platform-u7

Active

Add tags

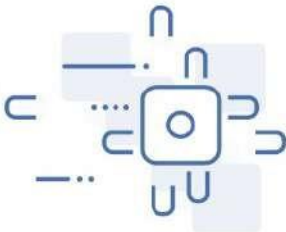
Details

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.

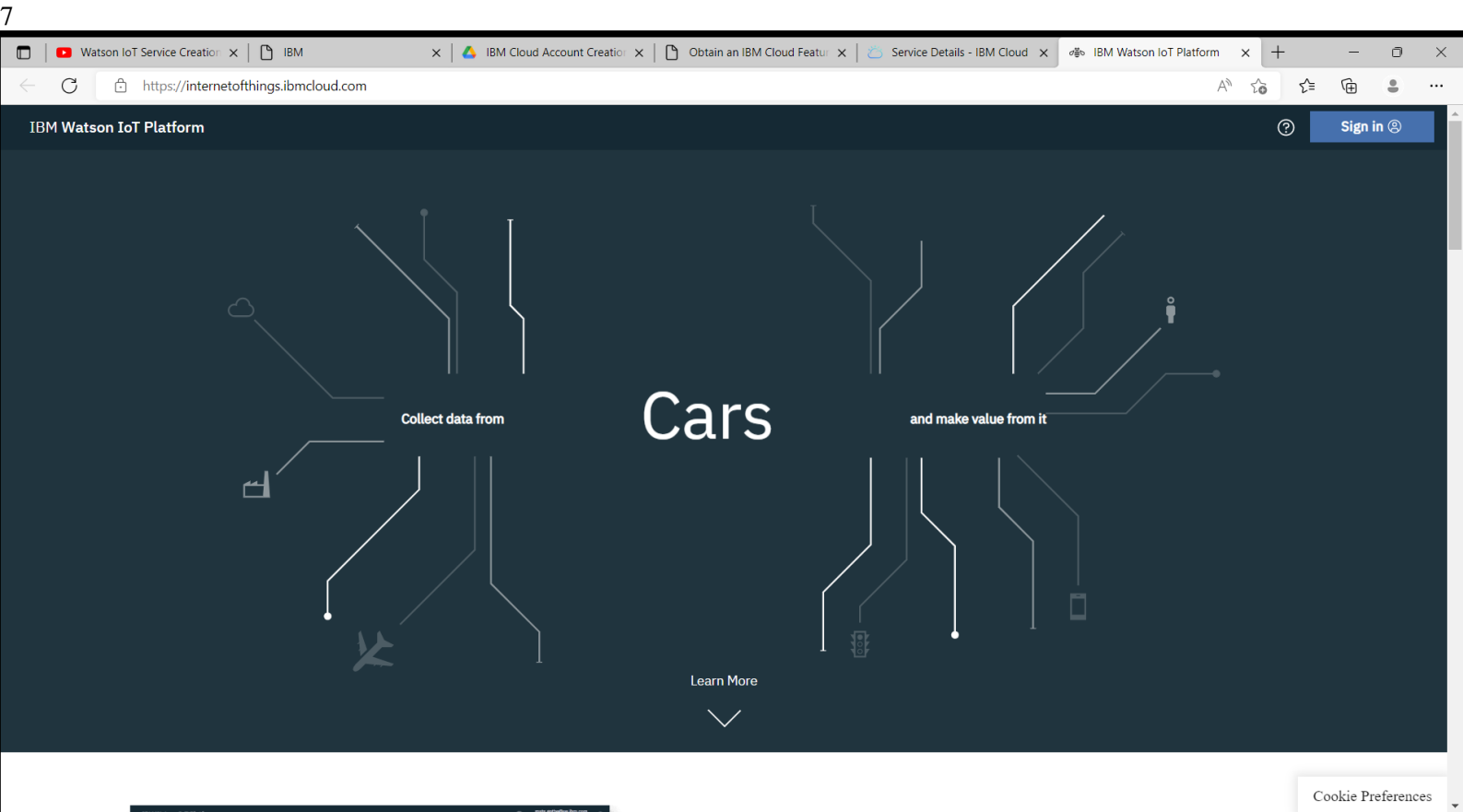
Starts at \$500 per month

Production

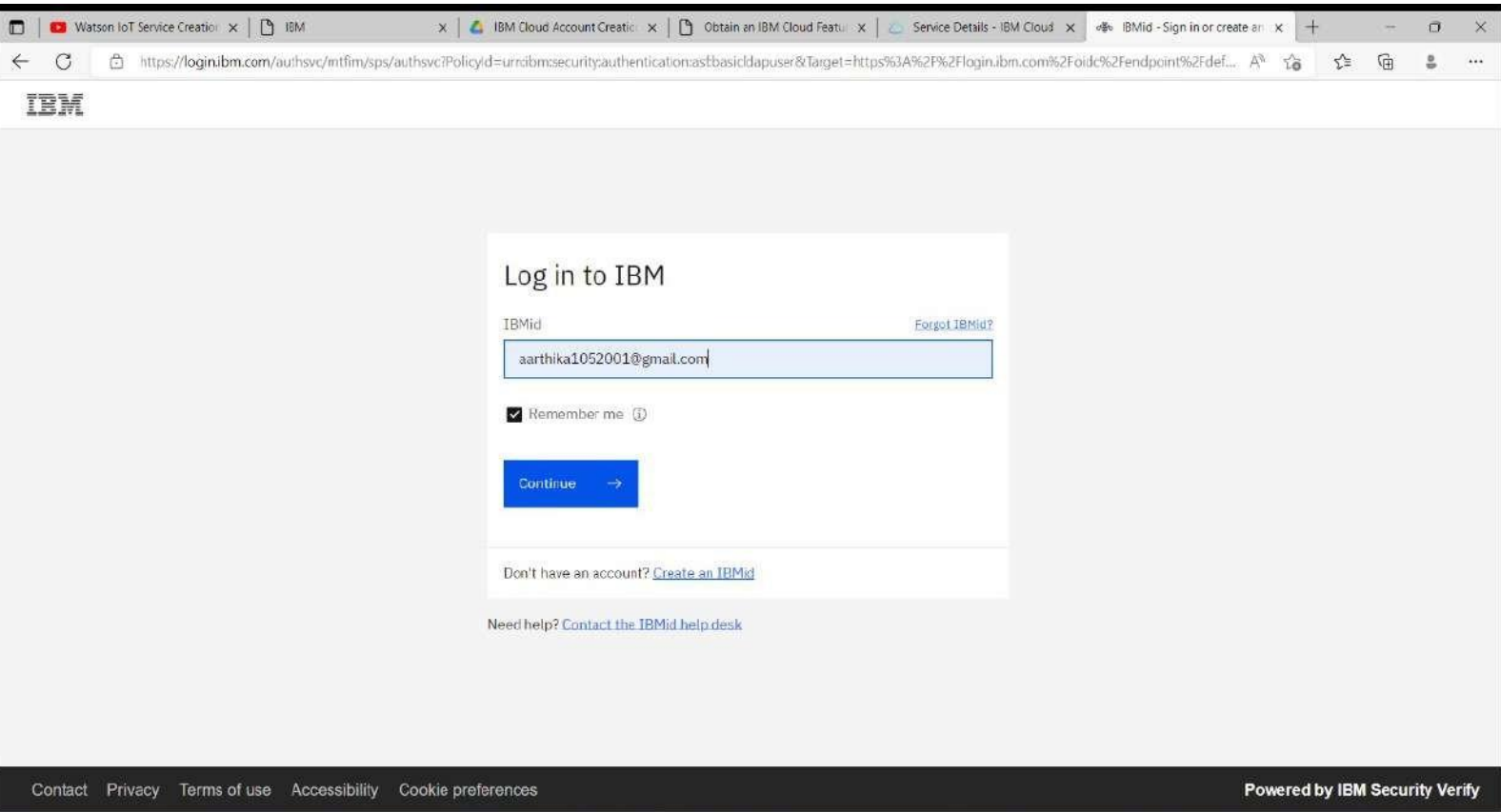
The Production service is a fully managed SaaS offering that enables you to manage and analyze enterprise IoT data.

Includes IBM Service & Support.

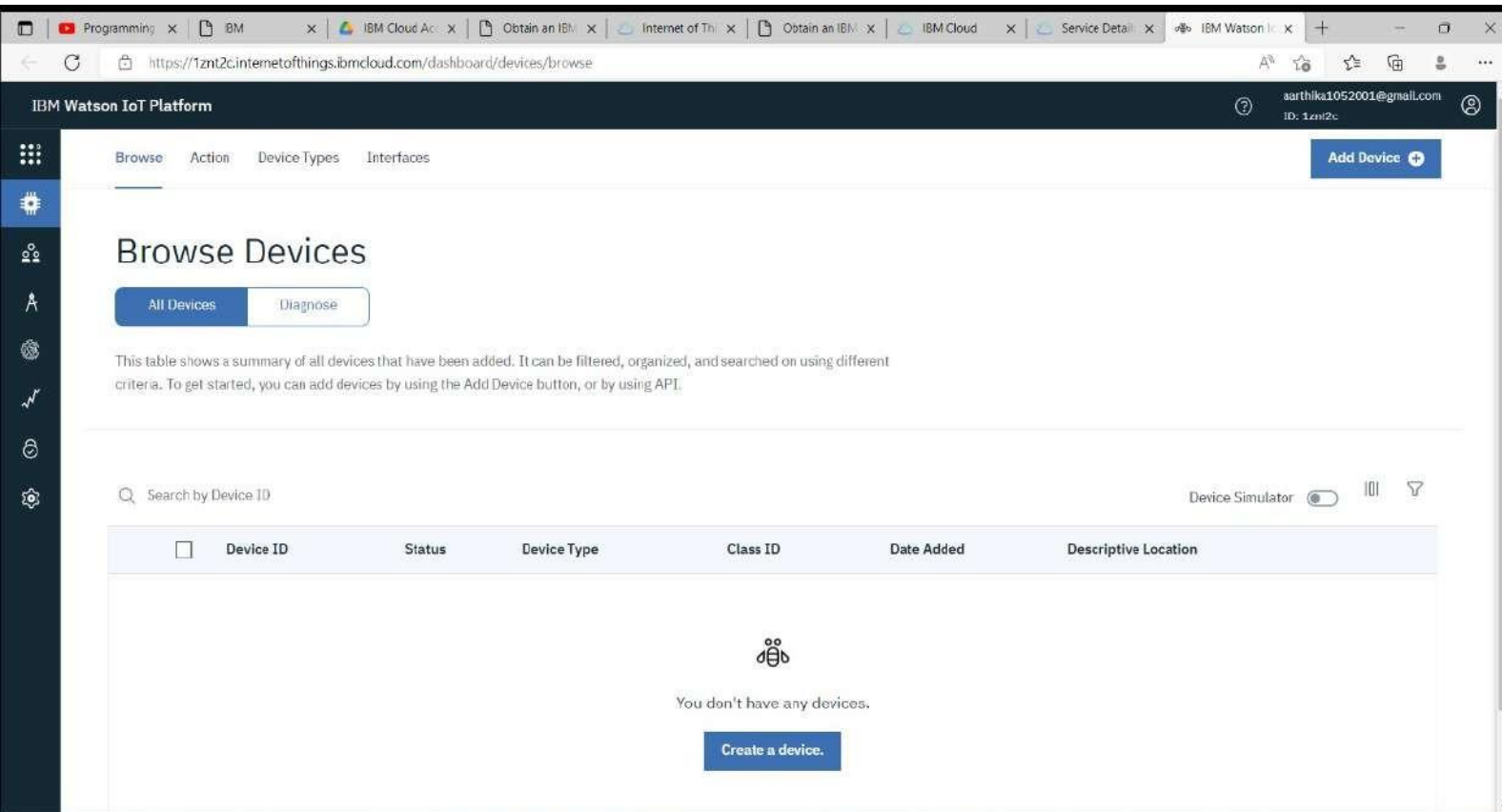
**STEP6:** Click on the launch button in the manage tab, it will cloud to create a device



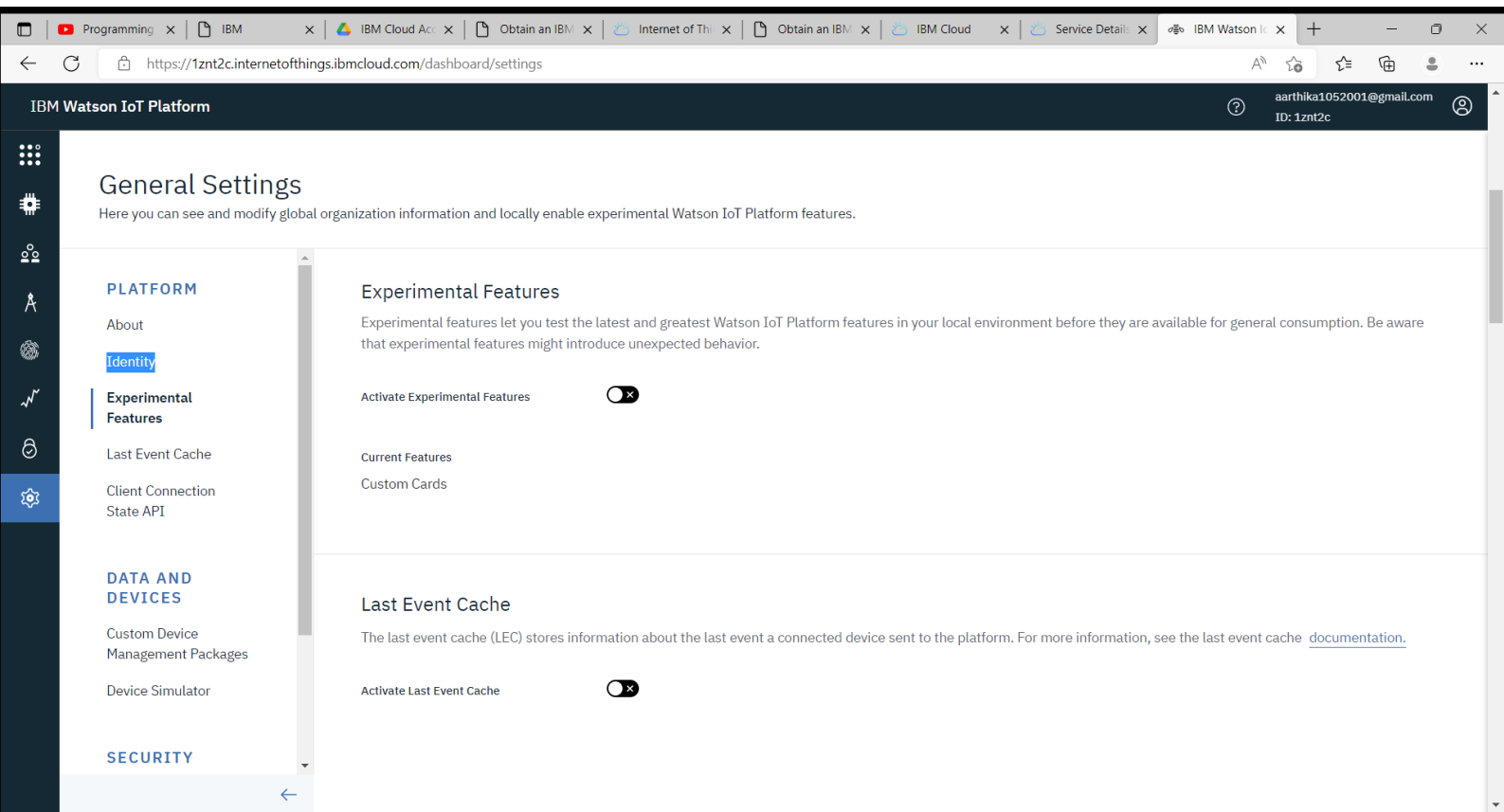
STEP7: Enter the details to sign in to the Watson Cloud to create a device



STEP8: 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.



STEP9: The setting tab is used to change the general setting if needed for the project



STEP10: In the security tab we can choose the type of security connection and can change according to specification



IBM Watson IoT Platform

https://1znt2c.internetofthings.ibmcloud.com/dashboard/security

aarthika1052001@gmail.com  
ID: 1znt2c

## Policies

You can configure policies to enhance connection security and control access to the server from devices.

- Connection Security**  
Configure the security level for device connection.
- Blacklist**  
Block access from specific IP addresses. Activating a blacklist disables an active whitelist. Disabled
- Whitelist**  
Allow access from specific IP addresses. Activating a whitelist disables an active blacklist. Disabled

STEP11: Usage gives the summary of how many bytes are used between the devices and the IBM cloud

IBM Watson IoT Platform


https://1znt2c.internetofthings.ibmcloud.com/dashboard/usage

aarthika1052001@gmail.com  
ID: 1znt2c

## Overview

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

<b>THIS MONTH</b> <b>0 bytes</b> Data transferred inbound and outbound	
<b>PREVIOUS MONTH</b> <b>0 bytes</b> Data transferred inbound and outbound	

### Data Transferred

Date Period (months)

1 3 6 Max from 11/12/2022 to 11/13/2022

**STEP12:** This tab is used when you want to connect to some other platform and to integrate with other services

The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes the IBM Watson IoT Platform logo and the user's email and ID. The main content area is titled 'Browse API Keys' and includes a search bar. Below the search bar, there is a table with columns for Key, Description, Role, and Expires. The table currently shows 0 results. A 'Generate API Key' button is located in the top right corner. Below the table, there is a message that says 'There are no API Keys' and a 'Generate API Key' button.

IBM Watson IoT Platform

Browse IBM Cloud Apps

+ Generate API Key

## Browse API Keys

Type the app description to search for

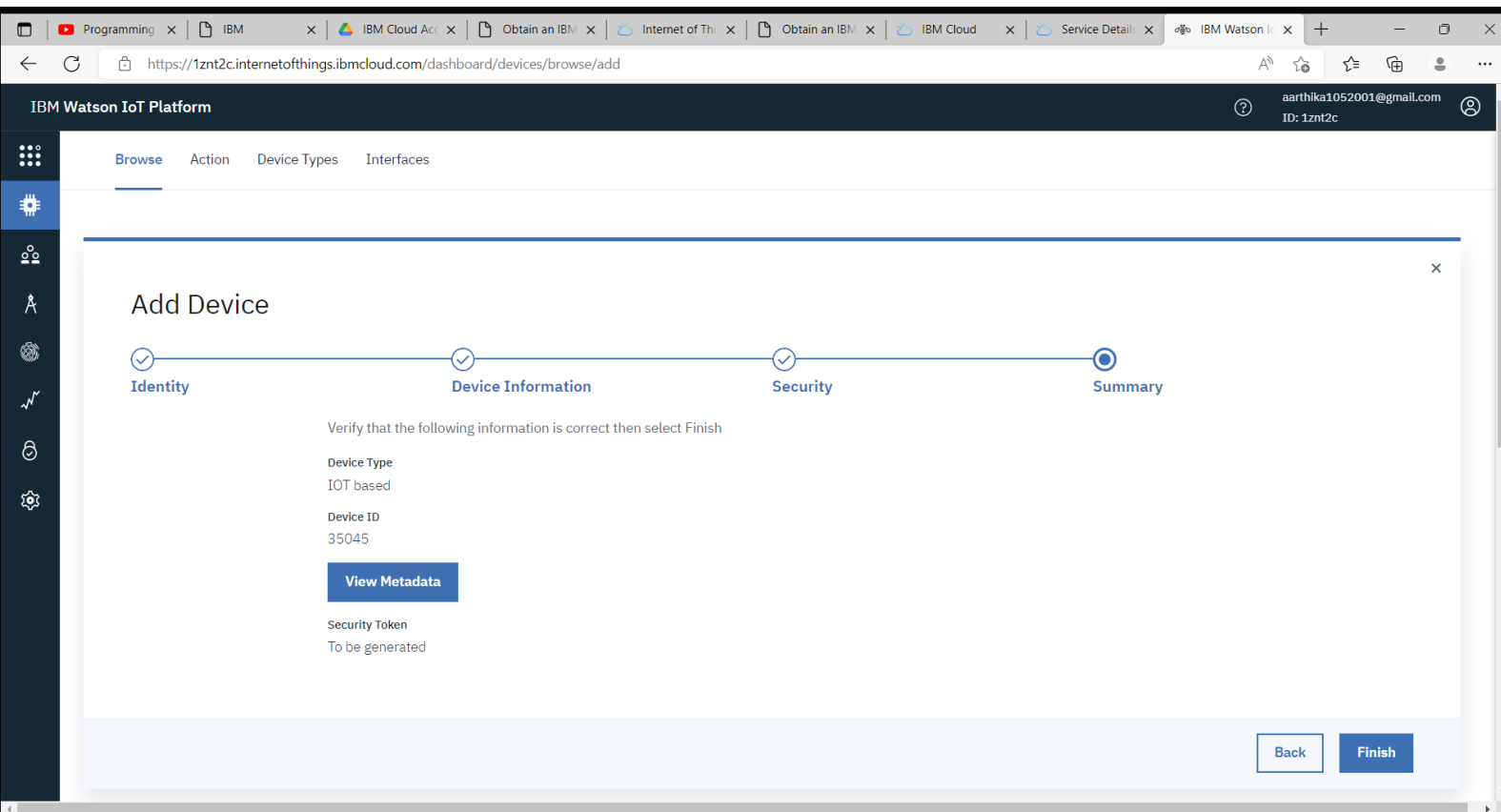
This table shows a summary of the API keys that have been added for the organization. It can be filtered, organized, and search on using different criteria. To get started, you can add API keys by clicking Generate API Key, or by using the API. For more information about adding API keys, see [API key connection](#).

Key	Description	Role	Expires
0 results			

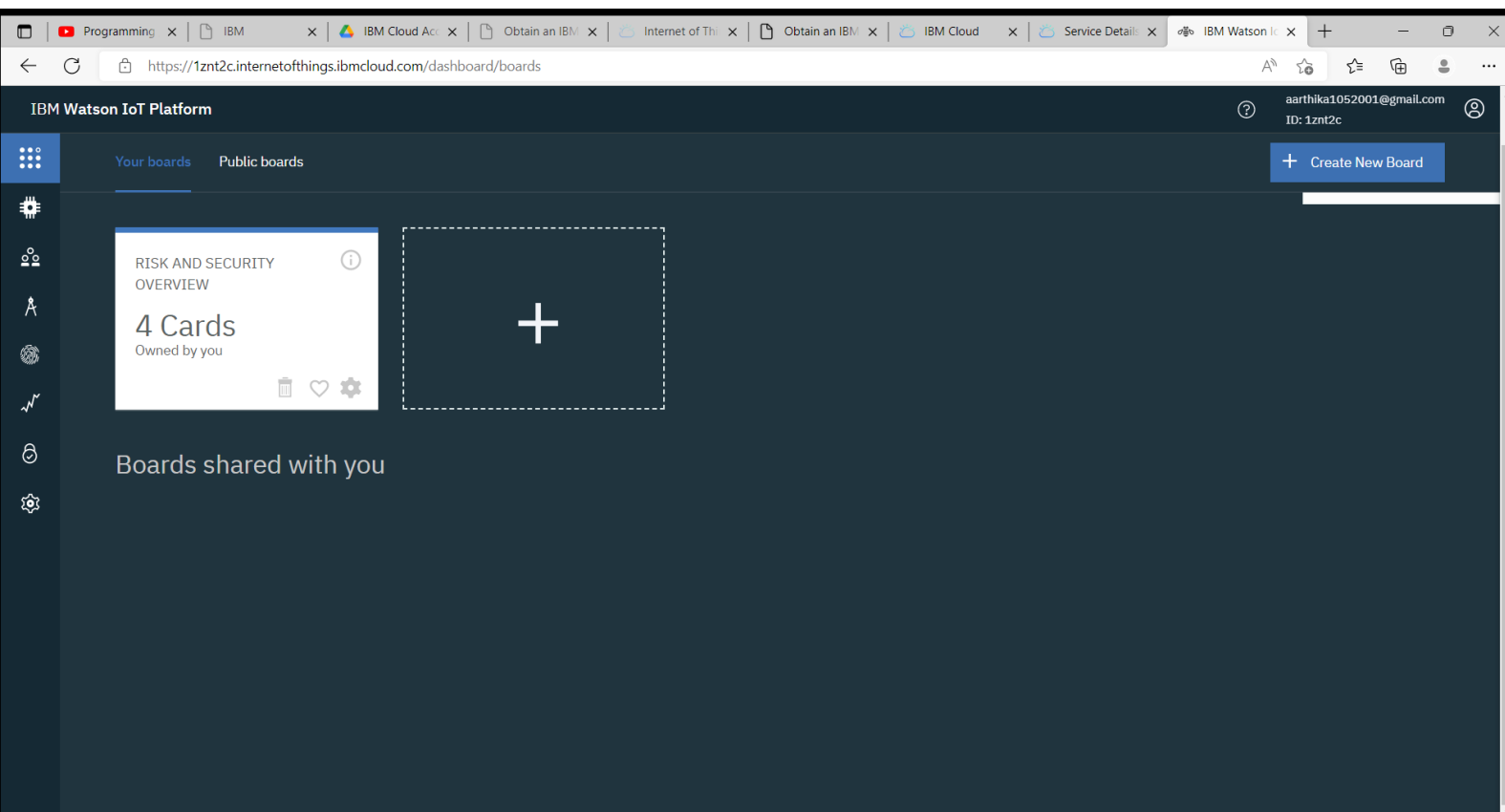
There are no API Keys

Generate API Key

**STEP13:** Click on the device tab and click on the add device button, then give the device type and device id and click next



STEP14: The Boards will display card for the project



## CONCLUSION:

An IBM Watson cloud for IOT and a device is created.



