

## Pre Requisites

<b>Project Title</b>	SmartFarmer – IoT Enabled Smart Farming Application
<b>Team ID</b>	PNT2022TMID03604
<b>Content</b>	IBM Cloud Service

## STEP 1:

Type IBM Cloud in Google and click on the first link.

The screenshot shows a Google search interface with the query "ibm cloud" entered in the search bar. The search results page displays approximately 20,700,000 results in 0.48 seconds. The first result is an advertisement for IBM Cloud, titled "IBM Cloud® - Cloud Computing", with a description: "A robust suite of advanced data and AI tools, and deep industry expertise. Discover a faster, more secure journey to **cloud** trusted by thousands of enterprises. Enterprise-Grade **Cloud**. Chat, Call, or Email **IBM**. Types: Full Stack **Cloud** Platform, Hybrid **Cloud**, Developer Tools." Below the ad are several links: "Watson AI", "IBM Let's Create", "Chat with IBM Sales", and "Modernise Hybrid Cloud". On the right side of the search results, there is a knowledge panel for "IBM cloud computing". The panel includes the IBM Cloud logo, a description of IBM cloud computing as a set of services for business, and a "More images" button. The knowledge panel also features a diagram illustrating the IBM cloud architecture, showing a multi-tiered structure with components like Cloud services and hardware, Cloud management, Virtualization, Applications, integration and interoperability, and Physical hardware.

Google

ibm cloud

About 20,70,00,000 results (0.48 seconds)

**Ad** · <https://www.ibm.com/cloud/computing>

**IBM Cloud® - Cloud Computing**

A robust suite of advanced data and AI tools, and deep industry expertise. Discover a faster, more secure journey to **cloud** trusted by thousands of enterprises. Enterprise-Grade **Cloud**. Chat, Call, or Email **IBM**. Types: Full Stack **Cloud** Platform, Hybrid **Cloud**, Developer Tools.

**Watson AI**  
Bring AI Tools and Apps to Your Data Wherever It Resides.

**IBM Let's Create**  
Bringing Together the Technology & Expertise for a New Way to Create.

**Chat with IBM Sales**  
Chat, Call, or Email IBM To Discuss Your Business Needs Today.

**Modernise Hybrid Cloud**  
Let's Create Cloud Management That Requires Less Management.

**IBM Cloud**

IBM Cloud computing is a set of cloud computing services for business offered by the information

More images

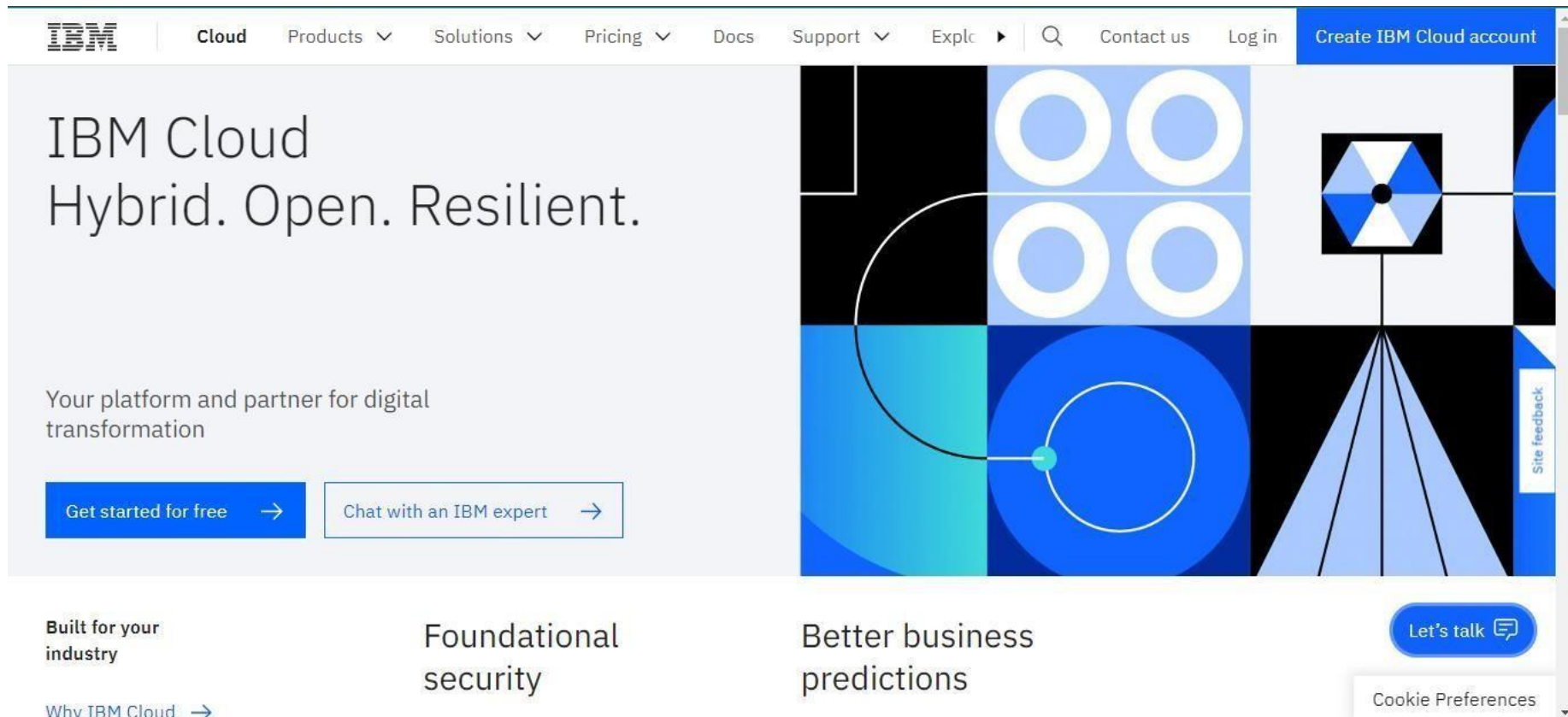
IBM cloud computing

Computer software

IBM Cloud computing is a set of cloud computing services for business offered by the information

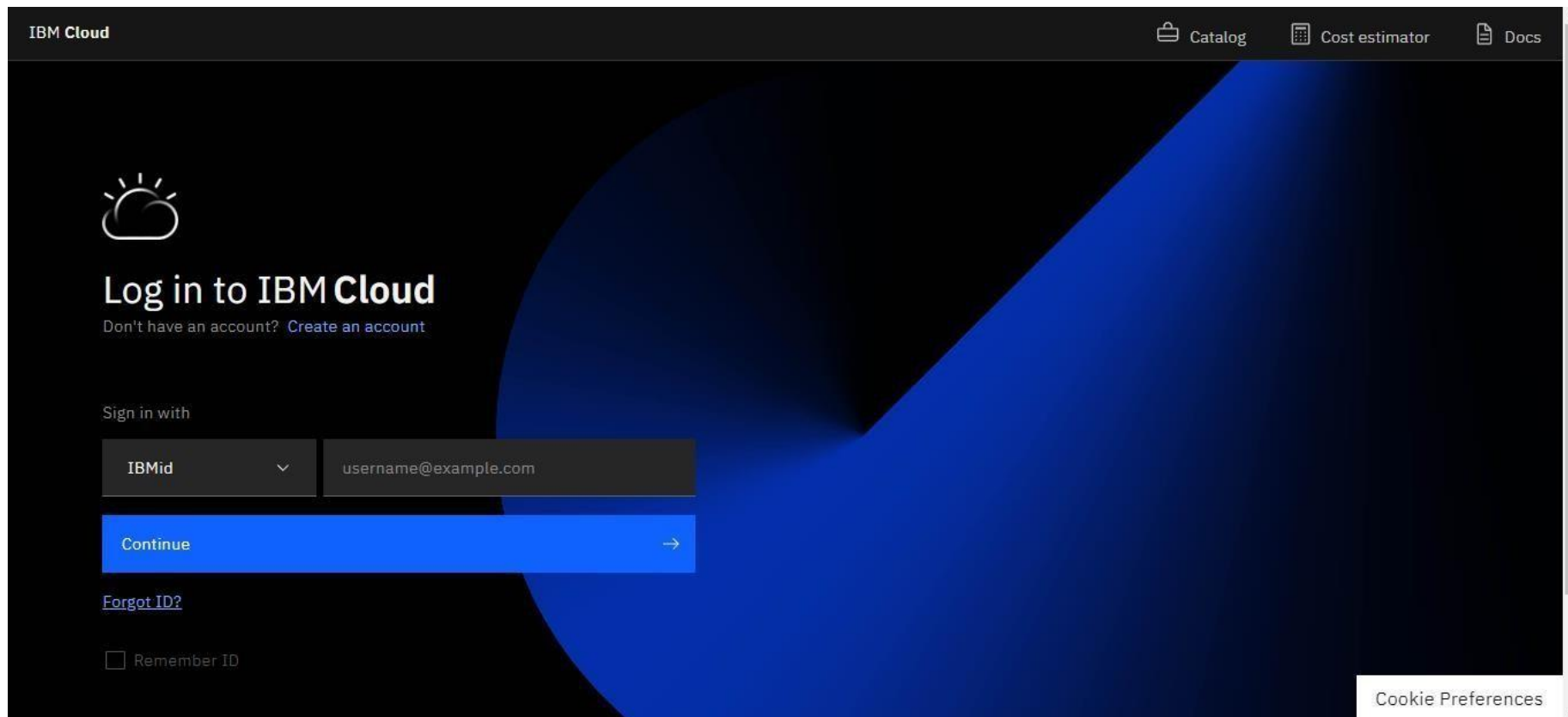
## STEP 2:

Click on create IBM Cloud Account Now and enter the details.



## STEP 3:

You will get the email with your password. Type your mail Id and the password then click on the login button.

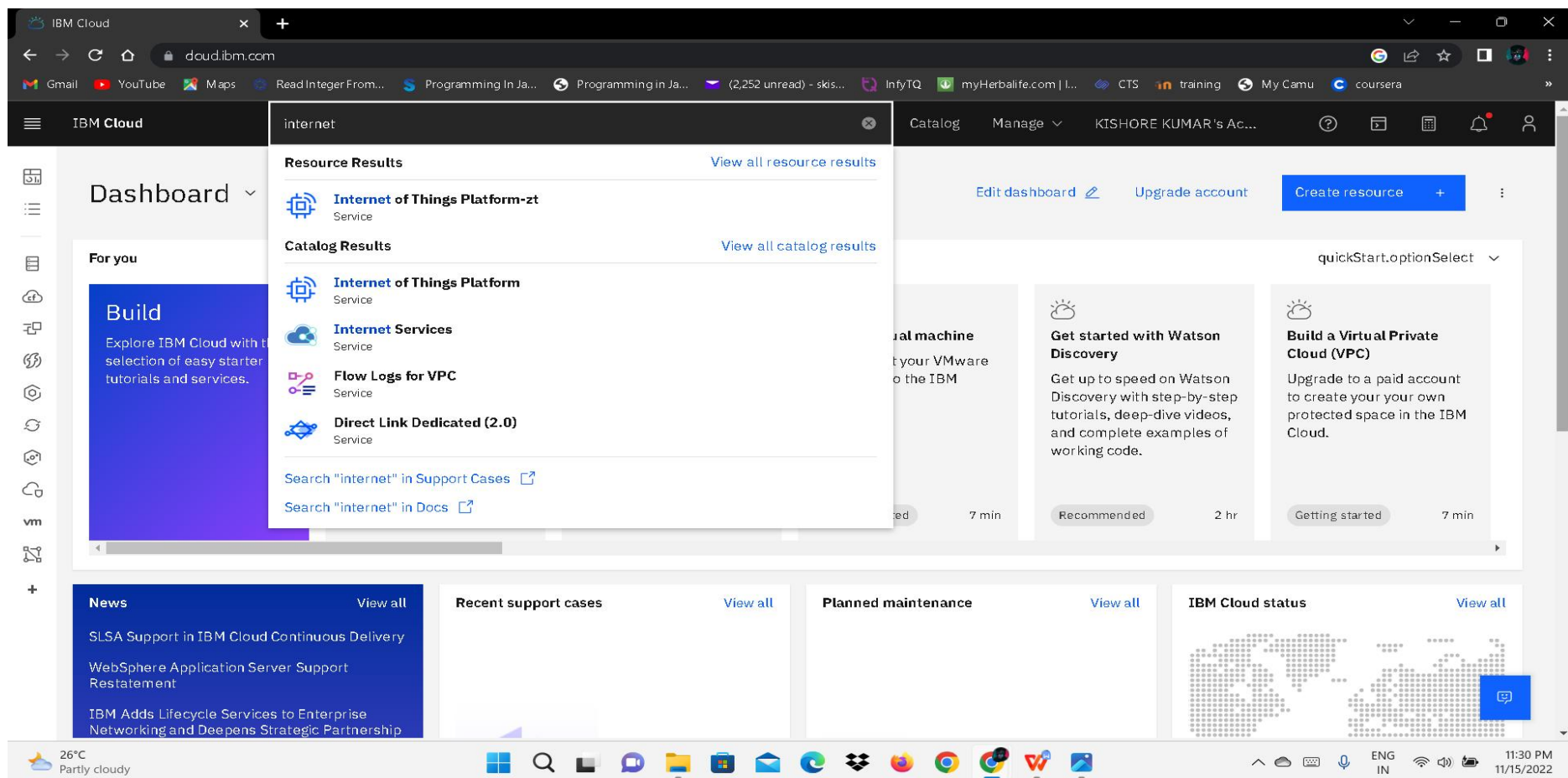


The screenshot shows the IBM Cloud login interface. At the top, there is a dark header with the 'IBM Cloud' logo on the left and navigation links for 'Catalog', 'Cost estimator', and 'Docs' on the right. The main content area has a dark background with a large blue abstract shape. On the left, there is a cloud icon, the text 'Log in to IBM Cloud', and a link 'Don't have an account? Create an account'. Below this, a 'Sign in with' section contains a dropdown menu set to 'IBMid' and a text input field containing 'username@example.com'. A prominent blue 'Continue' button with a right-pointing arrow is positioned below the input field. Underneath the button is a link for 'Forgot ID?'. At the bottom left, there is a checkbox labeled 'Remember ID'. In the bottom right corner, a 'Cookie Preferences' link is visible.

## STEP 4:

Now you are in Dashboard

From Dashboard you can now navigate IBM IoT Platform by searching in search bar.



## STEP 5:

Click on Internet of Things Platform and then create your platform by clicking create. Note:- Change your location to London.

The screenshot shows the IBM Cloud 'Internet of Things Platform' creation page. The browser address bar shows the URL: [cloud.ibm.com/catalog/services/internet-of-things-platform](https://cloud.ibm.com/catalog/services/internet-of-things-platform). The page header includes the IBM Cloud logo and a search bar. The main content area is titled 'Internet of Things Platform' and describes the service as the hub for all things IBM IoT. Below the description, there are two tabs: 'Create' (selected) and 'About'. The 'Create' tab shows a 'Select a location' dropdown menu with the following options: 'London (eu-gb)' (selected), 'Frankfurt (eu-de)', 'Dallas (us-south)', and 'Washington DC (us-east)'. The 'Summary' panel on the right displays the following information: 'Internet of Things Platform', 'Free', 'Location: London', 'Plan: Lite', 'Service name: Internet of Things Platform-6q', and 'Resource group: Default'. A warning message states: '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.' At the bottom, there is a checkbox for 'I have read and agree to the following license agreements:' with a link to 'Terms'. The page also shows a 'Create' button and an 'Add to estimate' button. The bottom of the screen shows the Windows taskbar with various application icons and the system clock displaying 11:31 PM on 11/15/2022.

**STEP 6:**  
Now Click Launch to launch your platform.

Service Details - IBM Cloud

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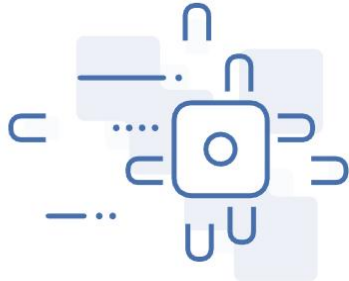
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Resource list /

Internet of Things Platform-zt ✔ 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.

○ 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.

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

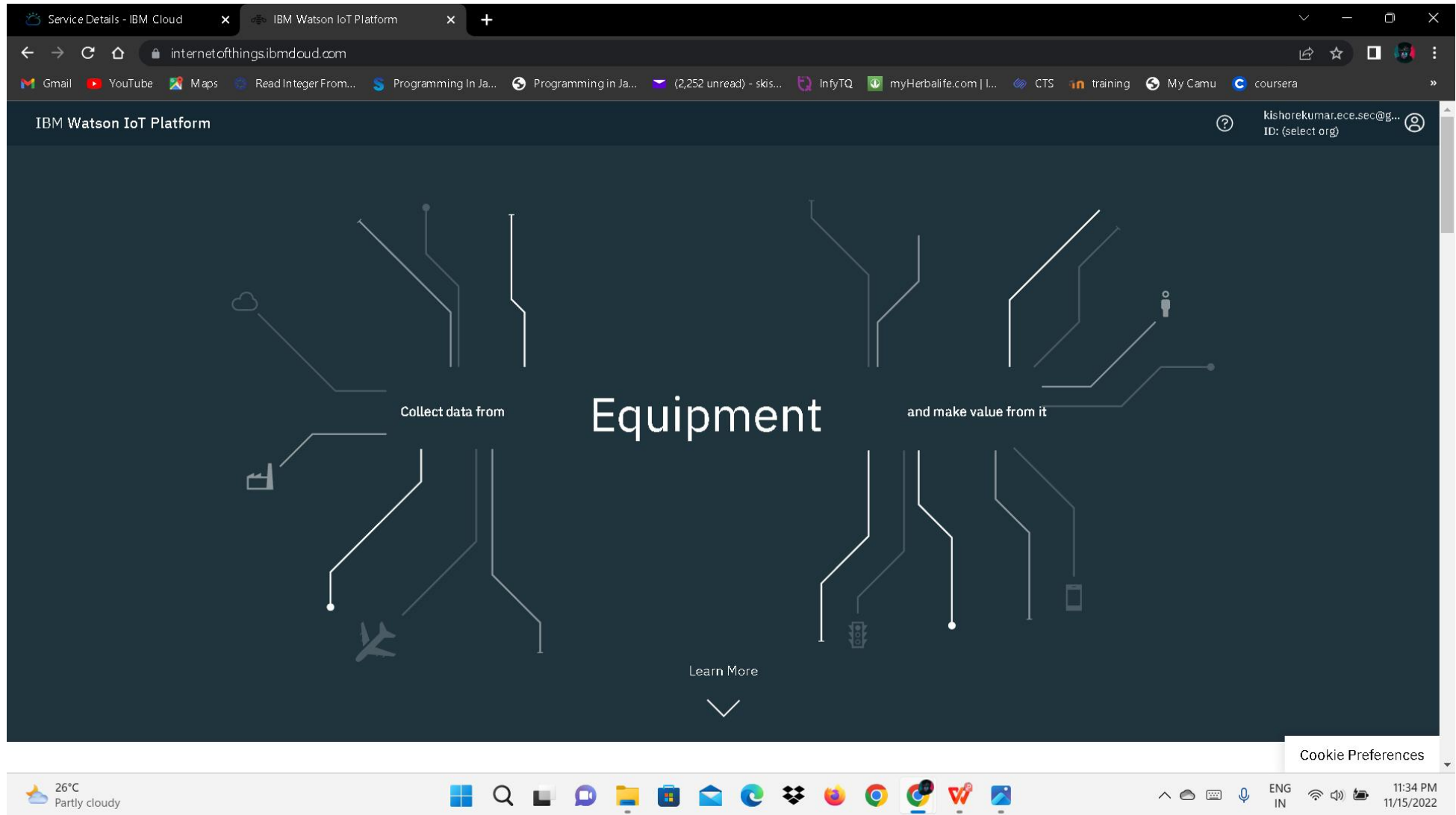
26°C Partly cloudy

 ENG IN 11:33 PM 11/15/2022



## STEP 7:

### Now Click Launch to launch your platform.





**STEP 8:**  
Now Click your profile and then select Organisation.

The screenshot displays the IBM Watson IoT Platform interface. The browser's address bar shows the URL `internetofthings.ibmcloud.com`. The page header includes the text "IBM Watson IoT Platform" and a user profile icon. The main content area features a large "Things" title, flanked by the phrases "Collect data from" and "and make value from it", with a "Learn More" link below. A user profile dropdown menu is open on the right, showing the email `kishorekumar.ece.sec@g...`, the ID `qr3el2`, and the organization `Bluemix Free`. A "Sign out" button is visible at the bottom of the dropdown. The Windows taskbar at the bottom shows the system clock as 11:34 PM on 11/15/2022, along with weather information (26°C, Partly cloudy) and various application icons.

## STEP 9:

Now you can create your device by Devices>Add Device

Service Details - IBM Cloud | IBM Watson IoT Platform | IBM Watson IoT Platform

qr3el2.internetofthings.ibmcloud.com/dashboard/devices/browse

IBM Watson IoT Platform

kishorekumar.ece.sec@gmail.com  
ID: qr3el2

Boards | Devices | Members | Apps | Access Management | Usage | Security | Settings

Device Types | Interfaces

Add Device +

### Devices

Diagnose

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

Device ID

Device Simulator ☐ | ☐ | ☐

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
12345	Disconnected	NodeMCU	Device	Oct 20, 2022 11:06 PM	
5678	Disconnected	NodeMCU	Device	Nov 15, 2022 1:38 PM	

50 | 1-2 of 2 items

1 of 1 page

26°C Partly cloudy

11:35 PM 11/15/2022



## STEP 10:

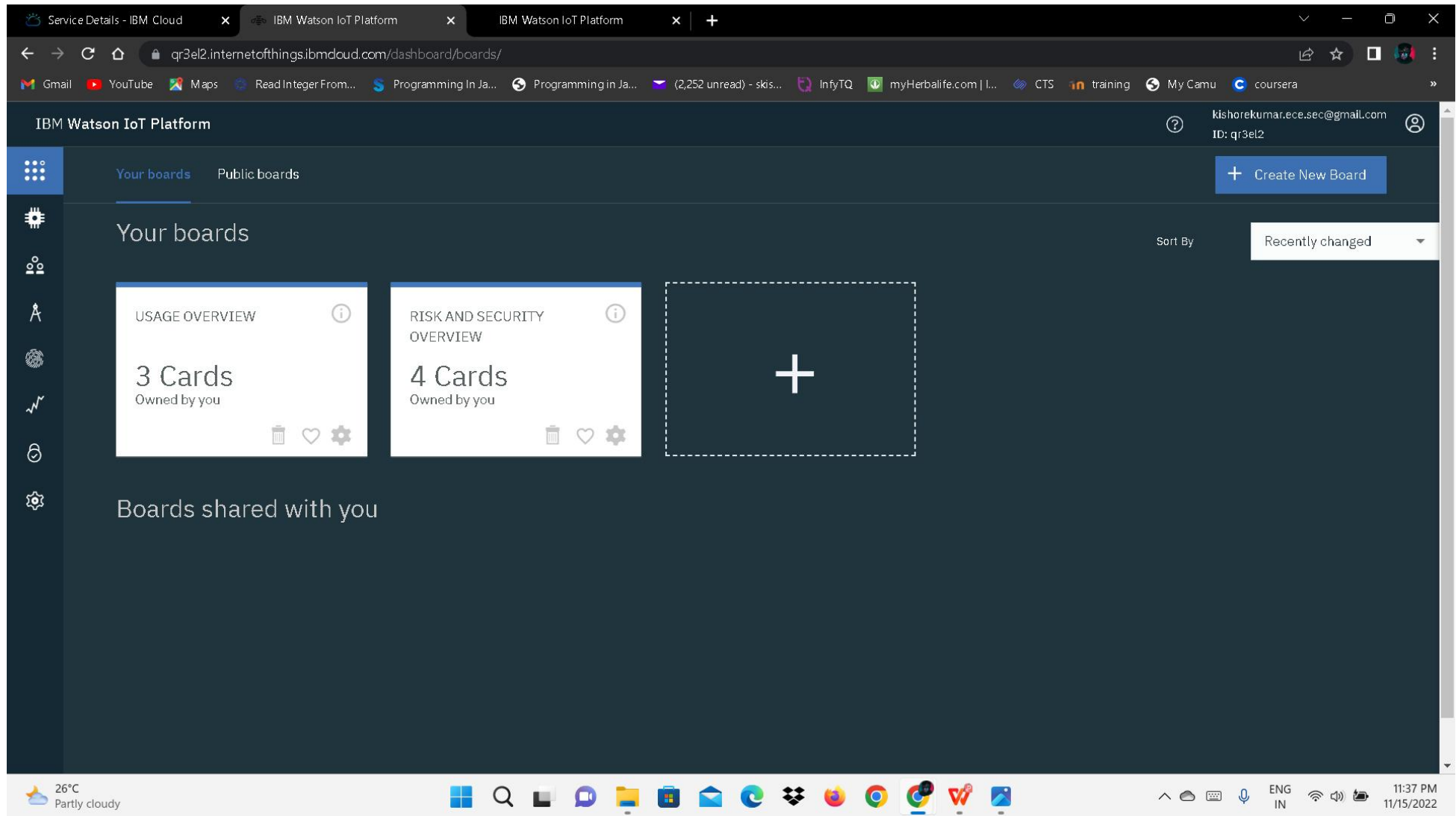
You can create your API Key by Apps > Generate API Key. While creation choose Application as **Standard Application**

The screenshot displays the IBM Watson IoT Platform interface. The browser address bar shows the URL `qr3el2.internetofthings.ibmcloud.com/dashboard/apps/browse`. The page title is "Browse API Keys". A search bar with the placeholder "Type the app description to search for" is located at the top right. Below the search bar, a table lists the API keys. The table has columns for "Key", "Description", "Role", and "Expires". There is one entry in the table with the key "a-qr3el2-7vctjqrzq", a description of "-", and a role of "Standard Application". A "Generate API Key" button is located in the top right corner of the page. The bottom of the screen shows a Windows taskbar with various application icons and a system tray with weather and time information.

Key	Description	Role	Expires
a-qr3el2-7vctjqrzq	-	Standard Application	-

## STEP 11:

You can create your own card by clicking by Boards > Create New Board.



## STEP 12:

By clicking the created card, where you can represent the data in different forms. If you don't have card you can create it by clicking add new card.

