

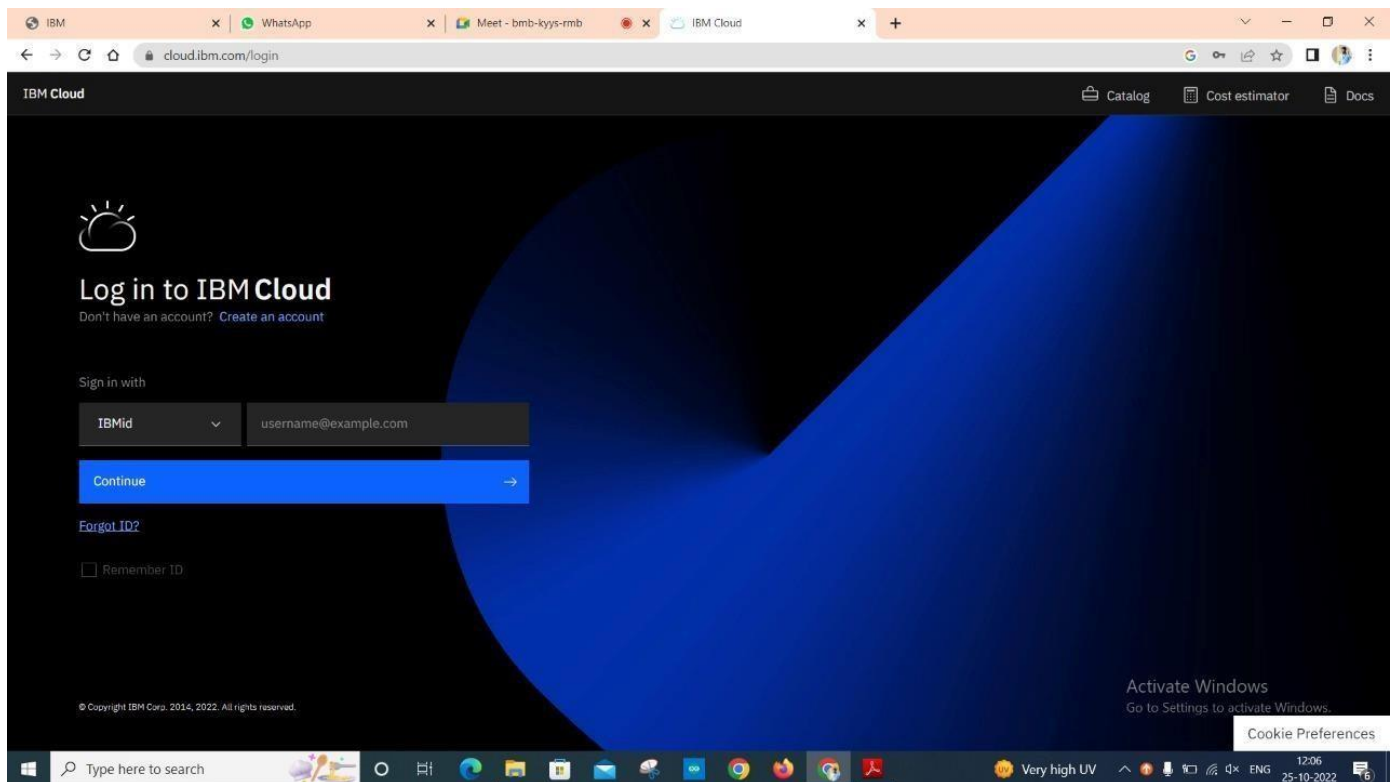
# CREATE IBM WATSON IOT PLATFORM AND DEVICE CREATE IBM WATSON IOT PLATFORM AND DEVICE

Team ID	PNT2022TMID36601
Project Name	Gas leakage monitoring and alerting system for industries

## AIM:

To create the IBM Watson IOT platform and device.

## Steps to be followed



## Step

Step 1: Firstly, create an IBM cloud account with IBM id and password.

2: Home page of IBM cloud.

## Step

The screenshot displays the IBM Cloud dashboard in a web browser. The browser's address bar shows the URL `cloud.ibm.com`. The dashboard header includes the IBM Cloud logo, a search bar, and navigation links for Catalog, Manage, and the user's account (Kumaran NT's Account). A 'Create resource' button is prominently displayed in the top right corner.

The main content area is titled 'Dashboard' and features a 'For you' section with six recommended actions, each with a 'Getting started' button and an estimated time:

- Build**: Explore IBM Cloud with this selection of easy starter tutorials and services. (3 min)
- Create a custom dashboard**: Create a shareable dashboard that you can customize with widgets, scope, and your own layout. (3 min)
- Explore IBM Cloud Shell**: Try a command-driven approach for creating, developing, and deploying a web project. (2 min)
- Build cloud-native apps using IBM Cloud Object Storage**: Build integrated apps using compute runtimes and microservices and use IBM Cloud® Object Storage services for data storage. (10 min)
- Monitor your resources**: Get visibility into the performance and health of your resources. (5 min)
- Visit the IBM Cloud catalog**: Explore our unique product catalog that contains 190+ services and software for your business solutions. (1 min)

Below the 'For you' section, there are four widgets: 'News' (with a 'View all' link), 'Recent support cases' (with a 'View all' link), 'Planned maintenance' (with a 'View all' link), and 'IBM Cloud status' (with a 'View all' link). The 'News' widget lists several articles, including 'IBM Tech Now: October 24, 2022' and 'Event Streams Adds Value to Kafka'. The 'IBM Cloud status' widget shows a world map with a 'Go to Settings' button.

The Windows taskbar at the bottom indicates the system time is 12:07 on 25-10-2022, with a temperature of 30°C and a sunny weather forecast.

## Step

Step 3: Click on the catalog on the top.

4: Click on IoT in the category mentioned.

The screenshot displays the IBM Cloud Catalog website. The browser's address bar shows the URL `cloud.ibm.com/catalog`. The page header includes the IBM Cloud logo, a search bar, and navigation links for Catalog, Manage, and the user account (Kumaran N T's Account). A sidebar on the left lists various categories such as Compute, Containers, Networking, Storage, AI / Machine Learning, Analytics, Blockchain, Databases, Developer tools, Logging and monitoring, Migration, Integration, Internet of Things (selected), Security, and Mobile. The main content area, titled "Viewing 348 products", displays a grid of product cards. The visible cards include:

- Analytics Engine** (By IBM): Submit your Apache Spark applications as needed and customize the Spark runtimes to satisfy the requirements of your application. Features: 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. Features: 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. Features: Lite, Free, EU Supported, IAM-enabled, IBM supported.
- App Configuration** (By IBM): Centralized, in-flight configuration for web and mobile applications and distributed environments. Features: Lite, Free, IAM-enabled, Service Endpoint Supported, IBM supported.
- App Connect** (By IBM): Connect your applications, automate tasks, and improve productivity. Features: Lite, Free, IBM supported.
- App ID** (By IBM): User Authentication and User Profiles for your apps. Features: Lite, Free, EU Supported, Financial Services Validated, HIPAA Enabled, IAM-enabled, IBM supported.

At the bottom of the page, there is a Windows taskbar showing the system clock as 12:07 on 25-10-2022, and a weather widget indicating 30°C Sunny.

## Step

The screenshot displays the IBM Cloud Catalog interface. The browser's address bar shows the URL `cloud.ibm.com/catalog`. The page header includes the IBM Cloud logo, a search bar, and navigation links for Catalog, Manage, and the user account (Kumaran NT's Account). The main content area is titled "Viewing 348 products" and features a grid of service cards. On the left, a sidebar lists categories such as Compute (56), Containers (9), Networking (30), Storage (24), AI / Machine Learning (20), Analytics (26), Blockchain (1), Databases (42), Developer tools (48), Logging and monitoring (8), Migration (8), Integration (60), Internet of Things (1), Security (26), and Mobile (1). The service cards include:

- Analytics Engine** (By IBM): Submit your Apache Spark applications as needed and customize the Spark runtimes to satisfy the requirements of your application. Features: 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. Features: 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. Features: Lite • Free • EU Supported • IAM-enabled • IBM supported.
- App Configuration** (By IBM): Centralized, in-flight configuration for web and mobile applications and distributed environments. Features: Lite • Free • IAM-enabled • Service Endpoint Supported • IBM supported.
- App Connect** (By IBM): Connect your applications, automate tasks, and improve productivity. Features: Lite • Free • IBM supported.
- App ID** (By IBM): User Authentication and User Profiles for your apps. Features: Lite • Free • EU Supported • Financial Services Validated • HIPAA Enabled • IAM-enabled • IBM supported.

At the bottom of the page, there is an "Activate Windows" watermark and a system tray showing the date and time as 12:07 on 25-10-2022.

Step

Step 5: Click on Internet of Things Platform.

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

The screenshot displays the IBM Cloud catalog interface. The browser tabs at the top include 'IBM', 'WhatsApp', 'Meet - bmb-kyys-rmb', and 'Catalog - IBM Cloud'. The address bar shows 'cloud.ibm.com/catalog?category=iot'. The main header features the 'IBM Cloud' logo, a search bar, and navigation links for 'Catalog', 'Manage', and 'Kumaran N T's Account'. Below the header, a search bar contains the text 'Search the catalog...'. The main content area is titled 'Internet of Things' and shows 'Viewing 1 product'. A filter bar indicates 'Filters: Internet of Things x Clear all'. The product card for 'Internet of Things Platform' by IBM is displayed, with 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 pricing plan is listed as 'Lite • Free • IAM-enabled • IBM supported'. On the left sidebar, there are filters for 'Type' (All, Services, Software, Professional services), 'Provider' (IBM (1)), 'Pricing plan' (Lite, Free), and 'Compliance' (IAM-enabled). A 'Learn more' link is at the bottom left. The bottom of the screen shows a Windows taskbar with the search bar, task icons, and system tray information including '30°C Sunny', '12:07', and '25-10-2022'.

## Step

The screenshot displays the IBM Cloud catalog page for the Internet of Things Platform. The browser address bar shows the URL `cloud.ibm.com/catalog/services/internet-of-things-platform`. The page header includes the IBM Cloud logo, a search bar, and navigation links for Catalog, Manage, and the user account (Kumaran NT's Account).

**Left Sidebar:**

- IBM
- Updated on 08/15/2022
- Category: Internet of Things
- Compliance: IAM-enabled
- Location: Frankfurt, London, Dallas, Washington DC
- Related links: Docs, Terms

**Main Content Area:**

**Select a pricing plan**  
Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

Plan	Features	Pricing
<b>Lite</b>	<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.

**Lite plan services are deleted after 30 days of inactivity.**

**Configure your resource**

Service name:

Tags:

Select a resource group:

Access management tags:

**Right Panel (Summary):**

**Internet of Things Platform** **Free**

Location: Frankfurt  
Plan: Lite  
Service name: Internet of Things Platform-9j  
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**

**Activate Windows**  
Go to Settings to activate Windows.  
**Add to estimate**

Step

Step 7: Tick agreements and then click on create.

8: Click on the launch button.

IBM Cloud

Search resources and products...

IBM

Updated on 08/15/2022

Category Internet of Things

Compliance IAM-enabled

Location Frankfurt London Dallas Washington DC

Related links Docs Terms

Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

Plan	Features	Pricing
Lite	<p>Includes up to 500 registered devices, and a maximum of 200 MB of each data metric</p> <ul style="list-style-type: none"><li>Maximum of 500 registered devices</li><li>Maximum of 500 application bindings</li><li>Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed</li></ul> <p>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.</p> <p>Lite plan services are deleted after 30 days of inactivity.</p>	Free

Configure your resource

Service name

Internet of Things Platform-9j

Select a resource group

Default

Tags

Access management tags

Summary

Internet of Things Platform Free

Location: Frankfurt

Plan: Lite

Service name: Internet of Things Platform-9j

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

Activate Windows

Go to Settings to activate Windows.

Add to estimate

Type here to search

30°C Sunny

12:08

25-10-2022



## Step

IBM Cloud

Search resources and products...

Resource list /

### Internet of Things Platform-hg

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
- 200 MB data-transfer limit

☐ 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
- Capacity limit based on device type

☐ Production

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

- Includes IBM Service & Support
- Pricing based on number of devices per

Activate Windows  
Go to Settings to activate Windows.

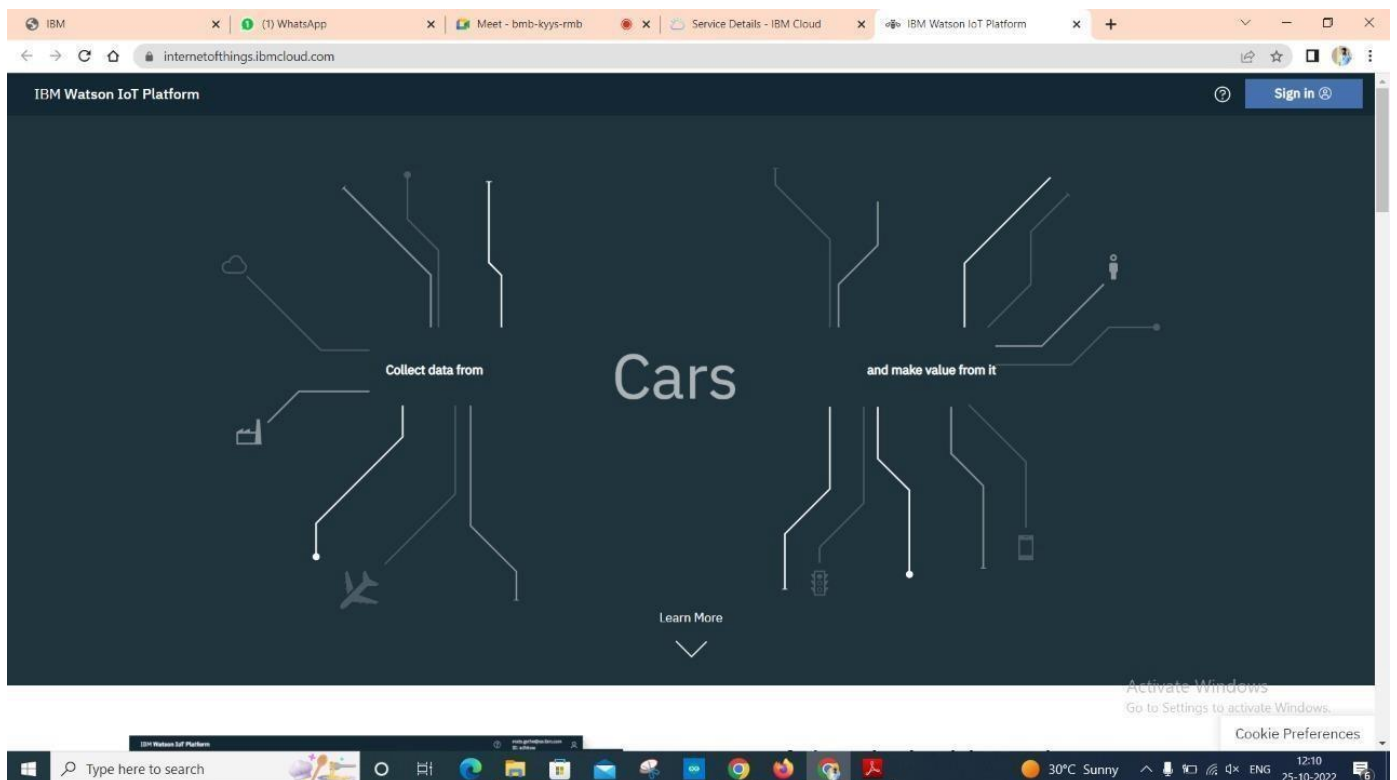
Type here to search

30°C Sunny 12:10 25-10-2022

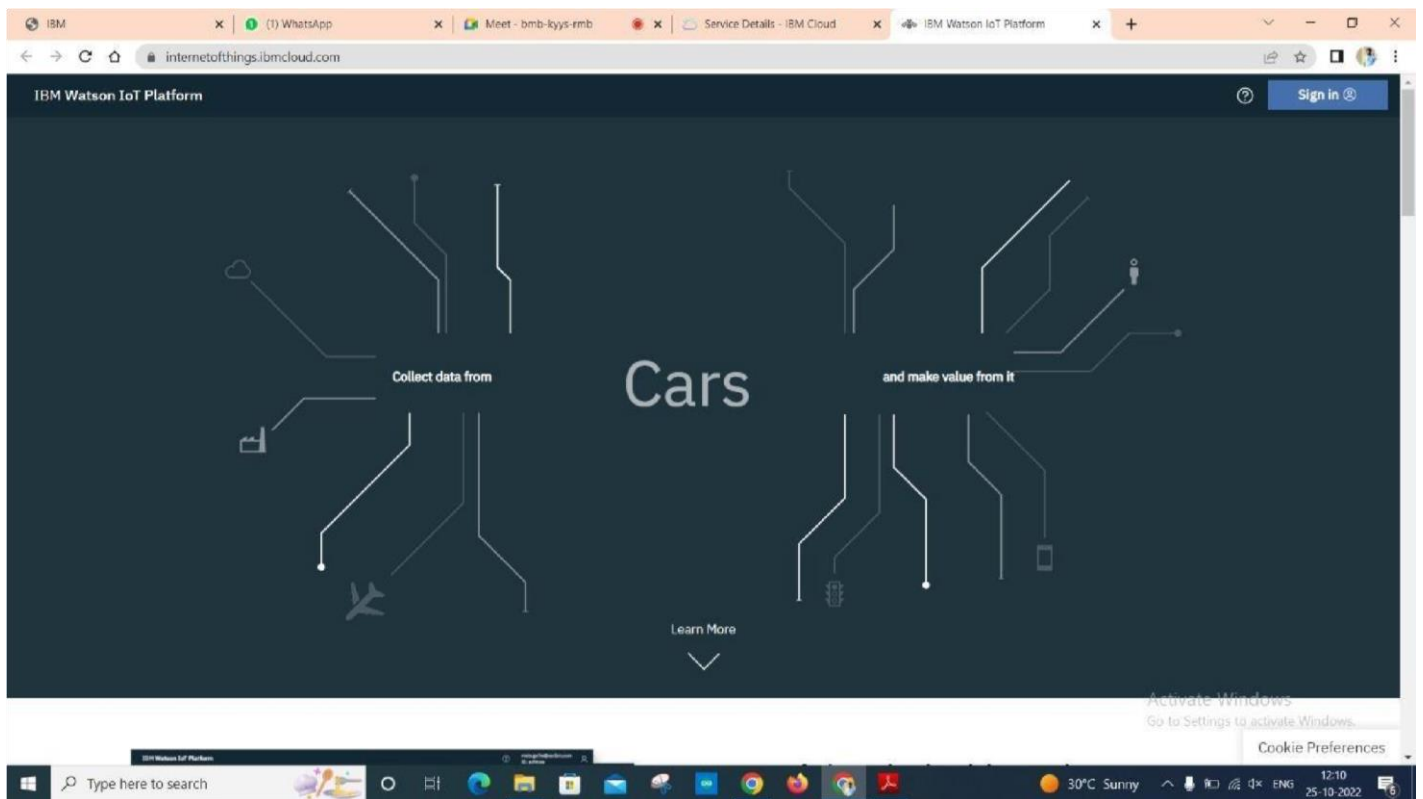
Step

Step 9: After clicking on the launch button this tab will open.

10: Click on Sign in.



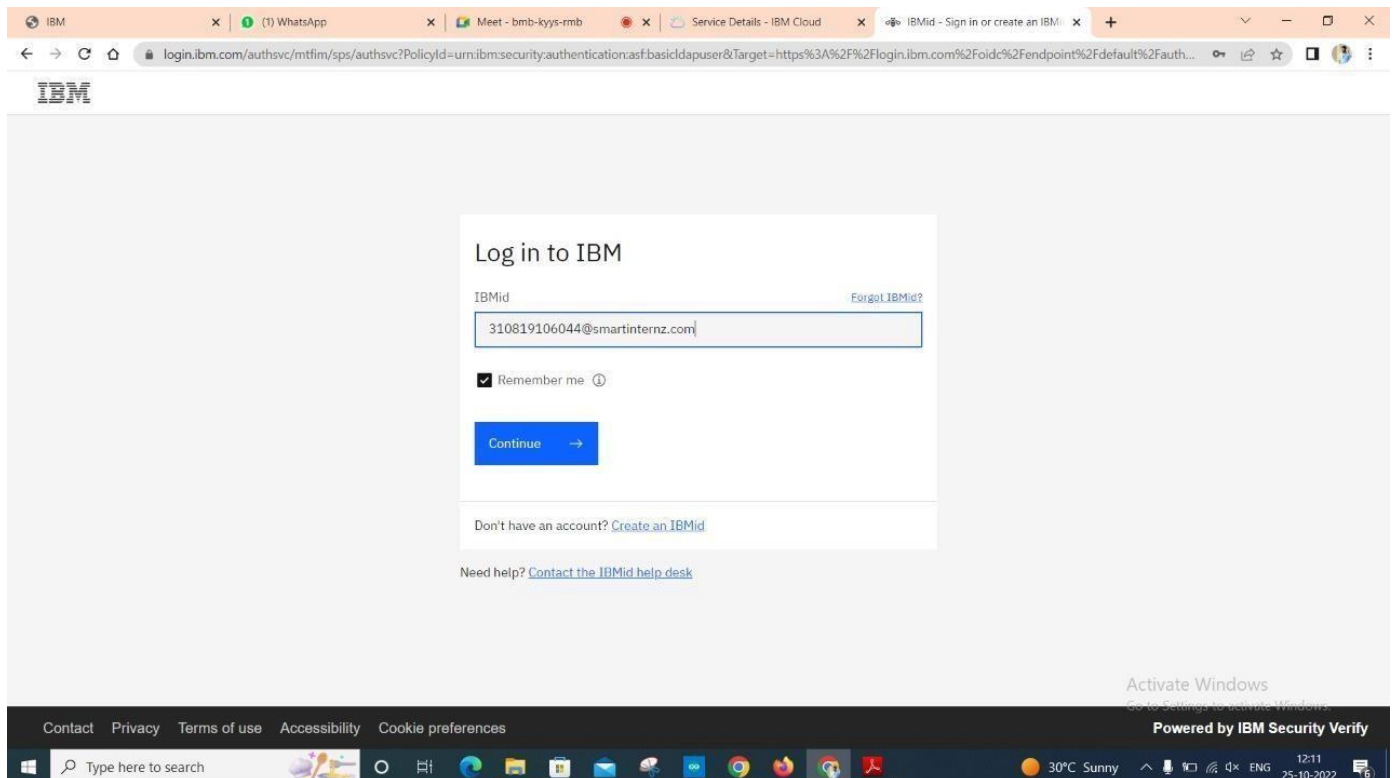
## Step



## Step

Step 11: Fill the login details.

12: Sign in on progress.



IBM

Log in to IBM

IBMid [Forgot IBMid?](#)

310819106044@smartinternz.com

☒ Remember me ⓘ

[Continue](#) →

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

Need help? [Contact the IBMid help desk](#)

Activate Windows  
Go to Settings to activate Windows.

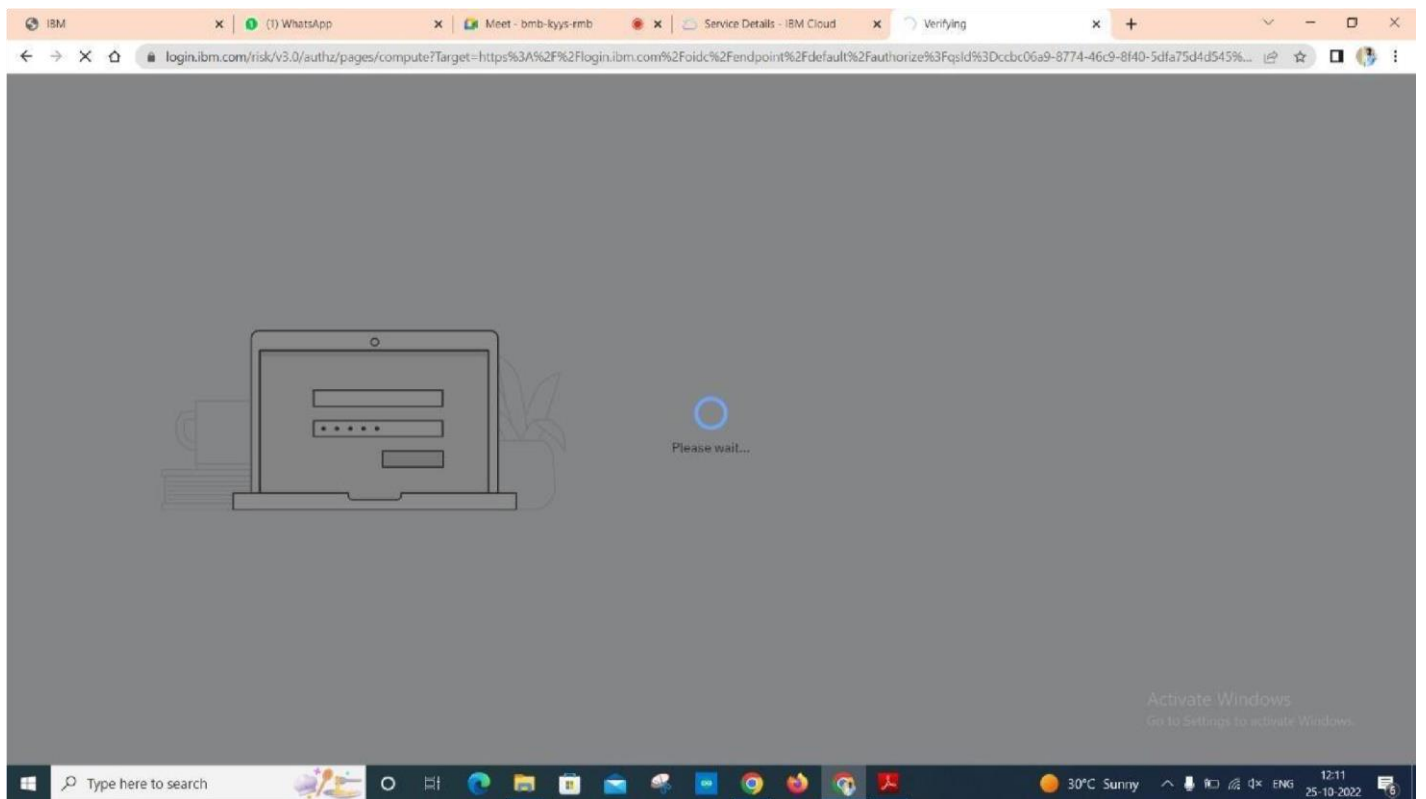
Contact Privacy Terms of use Accessibility Cookie preferences

Powered by IBM Security Verify

Type here to search

30°C Sunny 12:11 25-10-2022

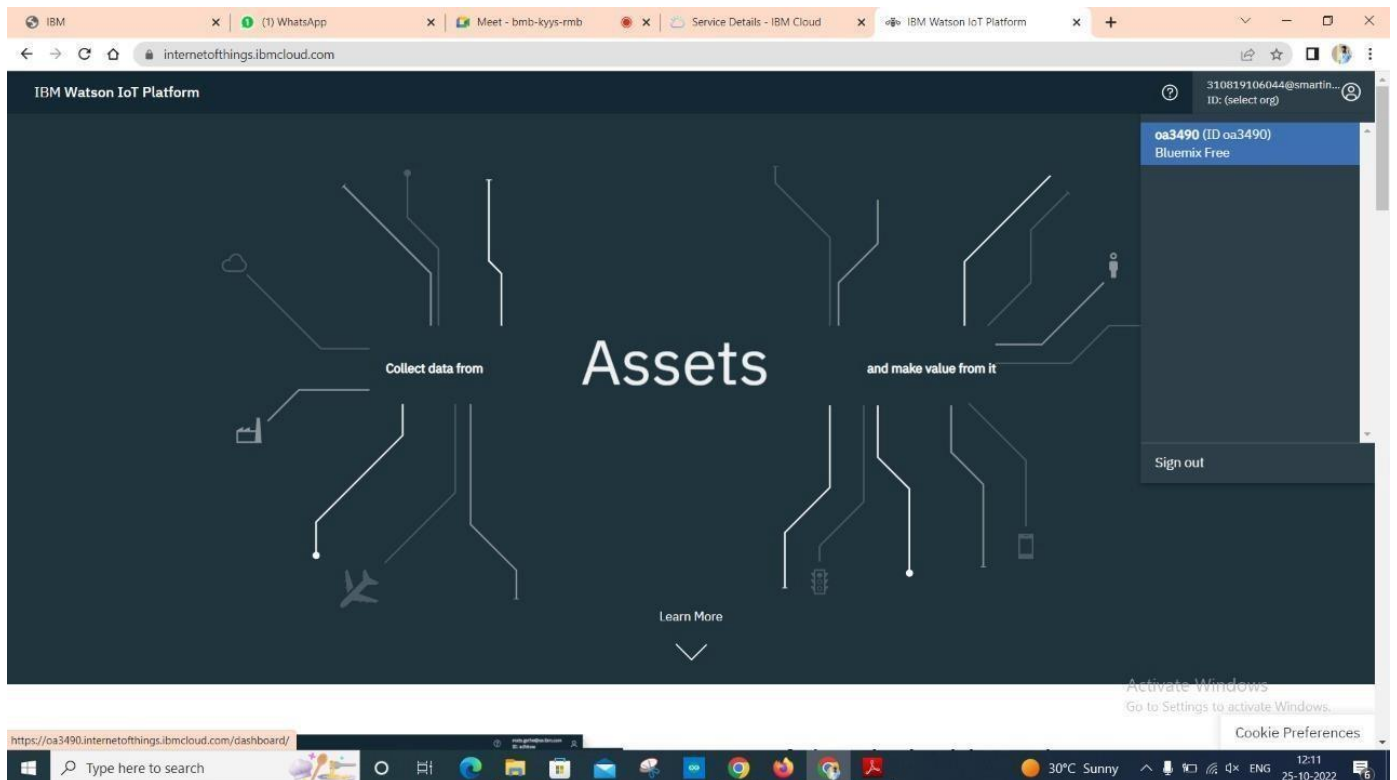
## Step



Step

Step 13: Once it id logged in, the name will be displayed click on it and then click on Bluemix Free.

14: This is the IBM Watson platform.



## Step

IBM Watson IoT Platform

310819106044@smartinemz.com  
ID: oa3490

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	Descriptive Location
> <input type="checkbox"/>	12345	Disconnected	TestDeviceType	Device	Oct 23, 2022 1:42 PM	

Items per page: 50 | 1-1 of 1 item

1 of 1 page

1 Simulation running

Activate Windows  
Go to Settings to activate Windows.

Type here to search

30°C Sunny 12:12 25-10-2022

Step

Step 15: Click on Add Device.

16: Click on Device Type.

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	Descriptive Location
12345	Disconnected	TestDeviceType	Device	Oct 23, 2022 1:42 PM	

Items per page 50 | 1-1 of 1 Item

1 of 1 page

1 Simulation running

Activate Windows  
Go to Settings to activate Windows.



## Step

The screenshot shows the IBM Watson IoT Platform interface in a web browser. The browser's address bar displays the URL: `oa3490.internetofthings.ibmcloud.com/dashboard/devices/browse/add`. The page title is "IBM Watson IoT Platform". The user is logged in as `310819106044@smartinternz.com` with ID `003490`. The navigation menu includes "Browse", "Action", "Device Types", and "Interfaces".

The main content area is titled "Add Device" and features a four-step wizard: Identity, Device Information, Security, and Summary. The "Identity" step is currently active. Below the steps, a message reads: "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 the placeholder text "Select or create a device type..." and "Device ID" with the placeholder text "Enter Device ID". At the bottom right of the wizard, there are "Cancel" and "Next" buttons.

Below the "Add Device" wizard, there is a "Browse Devices" section with buttons for "All Devices" and "Diagnose". A status bar indicates "0 Simulations running". An "Activate Windows" watermark is visible in the bottom right corner of the page.

The Windows taskbar at the bottom shows the search bar, task view button, and several application icons. The system tray displays the date and time as "12:15 25-10-2022" and the weather as "30°C Sunny".

Step

Step 17: Fill the details.

18: Click on Register Devices.

The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The 'Device Types' tab is active. The main content area is titled 'Add Type' and features a progress indicator with two steps: 'Identity' (selected) and 'Device Information'. Below the progress indicator, a text box explains: 'Device types group devices that have similar characteristics, such as model number, firmware version, or location. Give the device type a unique name and a description that identifies characteristics that are shared by devices of this type.' The form includes three input fields: 'Type' with radio buttons for 'Device' (selected) and 'Gateway'; 'Name' with the text 'TestDeviceType' and a note stating 'The device type name is used to identify the device type uniquely and uses a restricted set of characters to make it suitable for API use'; and 'Description' which is currently empty. At the bottom right of the form are 'Cancel' and 'Next' buttons. The bottom of the screen shows a Windows taskbar with various application icons, a search bar, and system status information including '30°C Sunny' and the date '25-10-2022'.

IBM Watson IoT Platform

310819106044@smartinternz.com  
ID: oa3490

Browse Action Device Types Interfaces

### Add Type

Identity Device Information

Device types group devices that have similar characteristics, such as model number, firmware version, or location. Give the device type a unique name and a description that identifies characteristics that are shared by devices of this type.

Type ☒ Device Or ☐ Gateway

Name   
The device type name is used to identify the device type uniquely and uses a restricted set of characters to make it suitable for API use.

Description

Cancel Next

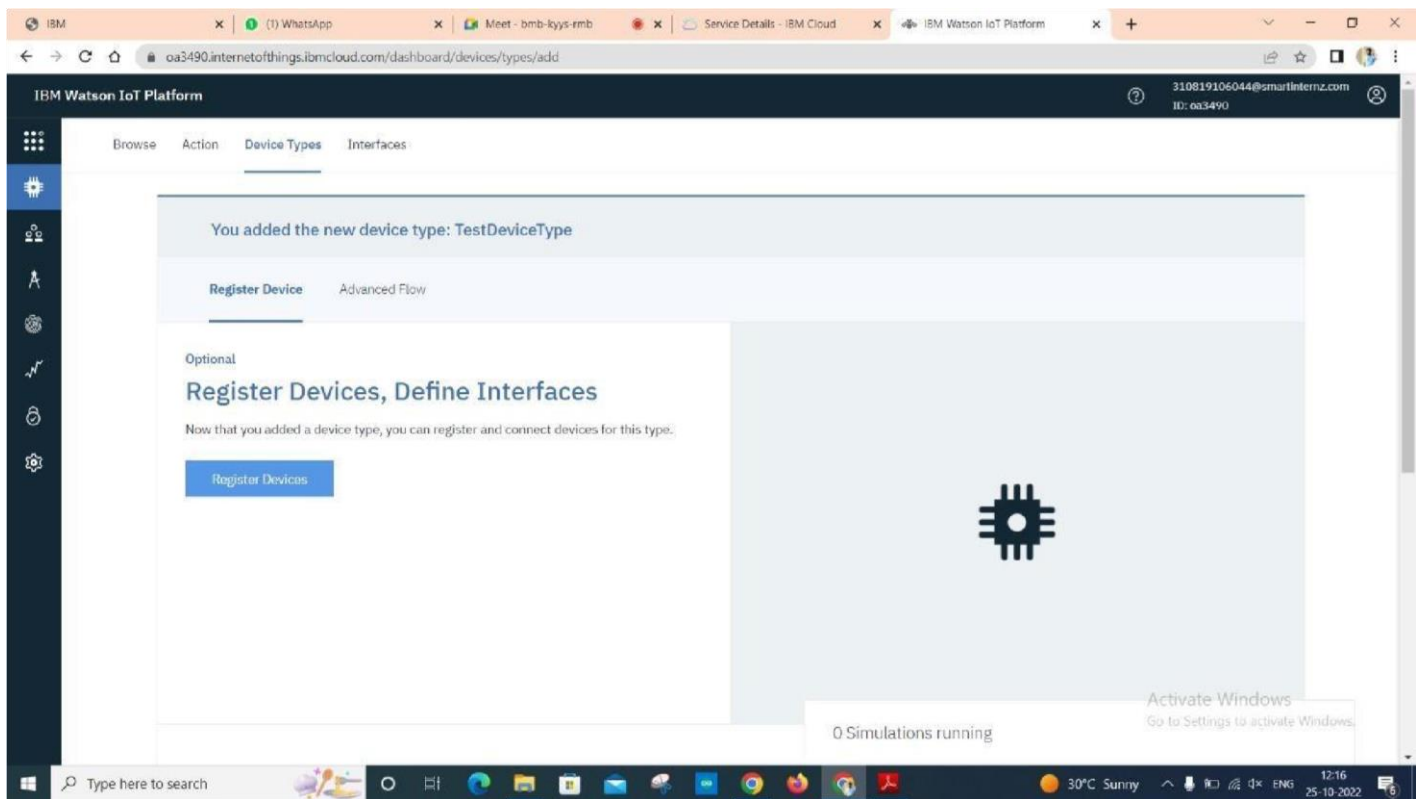
0 Simulations running

Activate Windows  
Go to Settings to activate Windows.

Type here to search

30°C Sunny 12:16 25-10-2022

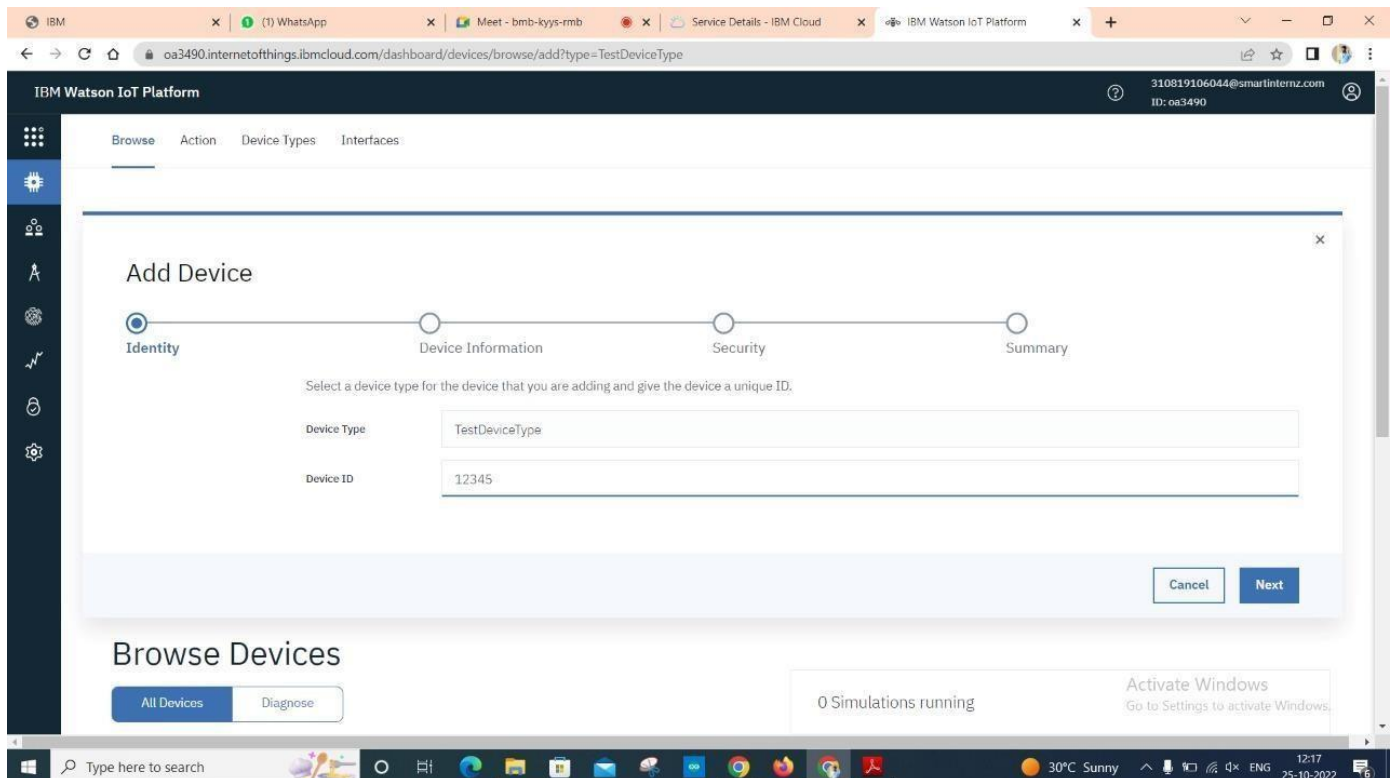
## Step



Step

Step 19: Give the device name which you have created and give Device ID.

20: After giving all the data, Click on Finish.



## Step

The screenshot displays the IBM Watson IoT Platform interface. The browser's address bar shows the URL: `oa3490.internetofthings.ibmcloud.com/dashboard/devices/browse/add?type=TestDeviceType`. The page header includes the IBM logo and navigation tabs: **Browse**, **Action**, **Device Types**, and **Interfaces**. A user profile in the top right corner shows the email `310819106044@smartinternz.com` and ID `003490`.

The main content area features a progress bar with four steps: **Identity** (checked), **Device Information** (checked), **Security** (checked), and **Summary** (active). Below the progress bar, a message states: "Verify that the following information is correct then select Finish". The information displayed is:

- Device Type:** TestDeviceType
- Device ID:** 12345
- View Metadata:** A blue button.
- Security Token:** To be generated

At the bottom right of the wizard, there are **Back** and **Finish** buttons.

Below the wizard, the **Browse Devices** section is visible, containing buttons for **All Devices** and **Diagnose**. A status bar indicates "0 Simulations running".

The Windows taskbar at the bottom shows the search bar, task view, and various application icons. The system tray displays the weather as "30°C Sunny" and the time as "12:17 25-10-2022".

## Step

Step 21: After creating the device, Copy the Device Credentials.

22: Go to Setting, click on Data and Devices.

The screenshot displays the IBM Watson IoT Platform interface. The browser's address bar shows the URL: `oa3490.internetofthings.ibmcloud.com/dashboard/devices/drilldown/TestDeviceType:12345?returnTo=/devices/browse`. The page title is "Device Drilldown - 12345". On the left, a sidebar menu lists options: "Device Credentials" (selected), "Connection Information", "Recent Events", "State", "Device Information", "Metadata", "Diagnostics", "Connection Logs", and "Device Actions". The main content area, titled "Device Credentials", contains a table of credentials:

Organization ID	oa3490
Device Type	TestDeviceType
Device ID	12345
Authentication Method	use-token-auth
Authentication Token	qvUymv*BGwD&jLz9C3

Below the table, a warning message states: "Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token." A link "Find out how to add these credentials to your device" is provided. At the bottom of the page, a status bar indicates "0 Simulations running". The Windows taskbar at the bottom shows the date as 25-10-2022 and the time as 12:17.

## Step

The screenshot shows the IBM Watson IoT Platform Settings page in a web browser. The browser's address bar displays the URL `oa3490.internetofthings.ibmcloud.com/dashboard/settings`. The page header includes the IBM Watson IoT Platform logo and a user profile with the email `310819106044@smartinternz.com` and ID `oa3490`. A dark sidebar on the left contains navigation links: Boards, Devices, Members, Apps, Access Management, Usage, Security, and Settings (which is highlighted). The main content area is titled 'Settings' and includes a sub-header: 'and modify global organization information and locally enable experimental Watson IoT Platform features.' The 'About' section contains the following details:

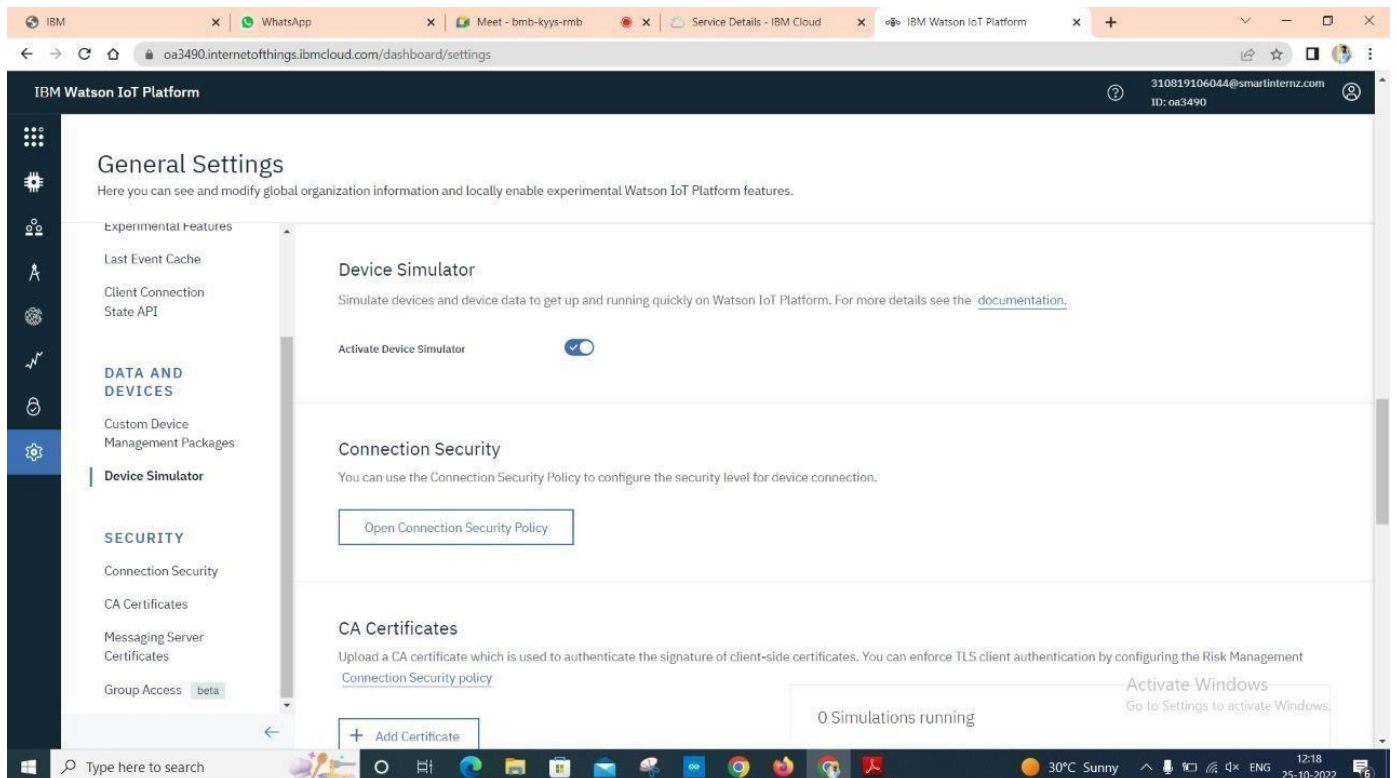
Field	Value
Date Created	10/23/2022
Organization Type	Bluemix Free
Geographic Location	eu-de

The 'Identity' section shows the 'Organization ID' as `oa3490` and the 'Friendly Name' as `oa3490`. Below this, the 'Experimental Features' section is partially visible. At the bottom of the page, a status bar indicates '0 Simulations running'. A Windows 'Activate Windows' watermark is also present in the bottom right corner. The Windows taskbar at the very bottom shows the search bar, task view button, and several application icons, along with system information: 30°C Sunny, 12:18, and 25-10-2022.

Step

Step 23: Then click on Device Simulator and Activate Device Simulator.

24: Click on the pop-up screen on the right side.





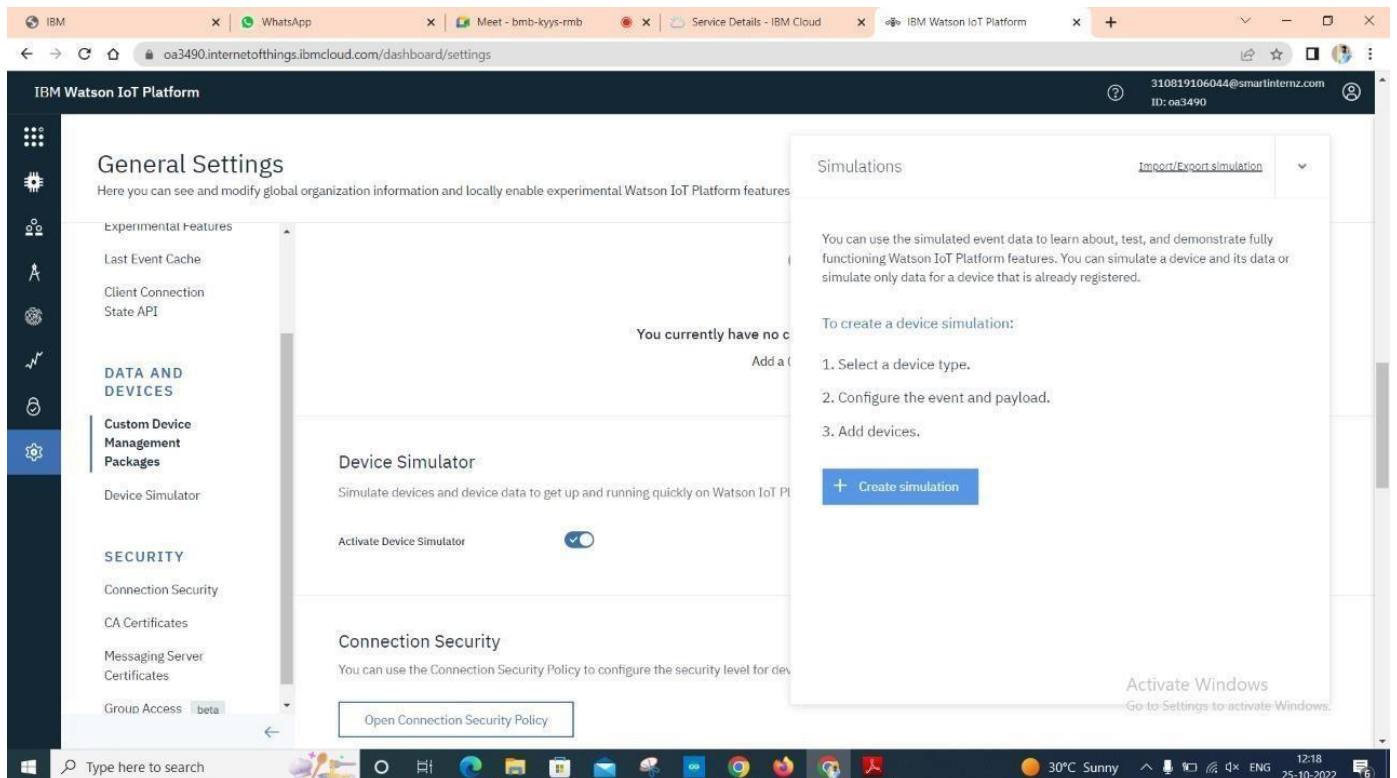
## Step

The screenshot shows the IBM Watson IoT Platform dashboard. The browser's address bar displays the URL `oa3490.internetofthings.ibmcloud.com/dashboard/settings`. The page title is "General Settings". A sidebar on the left contains navigation links: "Experimental Features", "Last Event Cache", "Client Connection State API", "DATA AND DEVICES", "Custom Device Management Packages", "Device Simulator", "SECURITY", "Connection Security", "CA Certificates", "Messaging Server Certificates", and "Group Access | beta". The main content area is titled "General Settings" and includes a sub-header: "Here you can see and modify global organization information and locally enable experimental Watson IoT Platform features." Below this, there is a section for "Custom Device Management Packages" with a message: "You currently have no custom device management packages. Add a (JSON format) package." The "Device Simulator" section shows a toggle for "Activate Device Simulator" which is turned on, and a status bar indicating "0 Simulations running". The "Connection Security" section has a button labeled "Open Connection Security Policy". An "Activate Windows" watermark is visible in the bottom right corner of the page. The Windows taskbar at the bottom shows the search bar, task view button, and several open applications, along with system information: 30°C Sunny, 12:18, 25-10-2022.

Step

Step 25: Click on Create Simulation.

26: Choose the Device.



## Step

The screenshot shows the IBM Watson IoT Platform 'General Settings' page. The left sidebar contains a navigation menu with sections: 'Experimental Features' (Last Event Cache, Client Connection, State API), 'DATA AND DEVICES' (Custom Device Management Packages, Device Simulator), and 'SECURITY' (Connection Security, CA Certificates, Messaging Server Certificates, Group Access - beta). The main content area shows the 'Device Simulator' section with a toggle 'Activate Device Simulator' set to 'On'. Below it is the 'Connection Security' section with a button 'Open Connection Security Policy'. A 'Simulations' modal is open, displaying instructions on how to create a device simulation and a list with 'TestDeviceType'. The browser's address bar shows the URL 'oa3490.internetofthings.ibmcloud.com/dashboard/settings'. The Windows taskbar at the bottom shows the time as 12:19 on 25-10-2022.

IBM Watson IoT Platform

310819106044@smartinternz.com  
ID: oa3490

### General Settings

Here you can see and modify global organization information and locally enable experimental Watson IoT Platform features

Experimental Features

- Last Event Cache
- Client Connection
- State API

DATA AND DEVICES

- Custom Device Management Packages
- Device Simulator

SECURITY

- Connection Security
- CA Certificates
- Messaging Server Certificates
- Group Access - beta

You currently have no c

Add a

#### Device Simulator

Simulate devices and device data to get up and running quickly on Watson IoT P

Activate Device Simulator ☒

#### Connection Security

You can use the Connection Security Policy to configure the security level for dev

Open Connection Security Policy

#### Simulations

[Report/Export simulation](#)

You can use the simulated event data to learn about, test, and demonstrate fully functioning Watson IoT Platform features. You can simulate a device and its data or simulate only data for a device that is already registered.

To create a device simulation:

1. Select a device type.
2. Configure the event and payload.
3. Add devices.

Select or create a device type...

TestDeviceType

Activate Windows  
Go to Settings to activate Windows.

Type here to search

30°C Sunny

12:19  
25-10-2022

Step

Step 27: Type the code.

28: Click on Use Registered Device and choose the device and run it.

The screenshot displays the IBM Watson IoT Platform dashboard. The main navigation sidebar on the left includes sections for Experimental Features, DATA AND DEVICES, and SECURITY. The 'General Settings' page is active, showing options for Last Event Cache, Client Connection, State API, Custom Device Management Packages, and Device Simulator. The 'Device Simulator' section is highlighted, and a modal window titled 'Device Type: TestDeviceType' is open. This modal contains a 'New event type' button, a text input for 'Event type name' (set to 'event\_1'), a 'Send' button, and a 'Schedule' dropdown set to 'Every Minute'. The 'Payload' section shows a JSON structure with 'Temperature' and 'Humidity' fields, each set to 'random(0, 100)'. There is also an 'Upload a CSV file' button and 'Cancel'/'Save' buttons at the bottom. The bottom of the screen shows a Windows taskbar with various application icons and system information like '30°C Sunny' and '12:21 25-10-2022'.

## Step

The screenshot shows the IBM Watson IoT Platform dashboard at the URL `oa3490.internetofthings.ibmcloud.com/dashboard/settings`. The page is titled "General Settings" and includes a sidebar with navigation options: Experimental Features, Last Event Cache, Client Connection, State API, DATA AND DEVICES (highlighted), Custom Device Management Packages, Device Simulator, SECURITY, Connection Security, CA Certificates, Messaging Server Certificates, and Group Access (beta). The main content area displays "You currently have no c" and "Add a". A modal window titled "Simulations" is open, showing "1/50 Simulations Running" and a "New Simulation" button. The modal also displays "Device Type: TestDeviceType", "1 Event", and a list of devices with ID "12345". At the bottom of the modal, it shows "41 events sent" and "Activate W4:58:60 sent". The Windows taskbar at the bottom shows the time as 12:21 on 25-10-2022, with a temperature of 30°C and weather as Sunny.

## Step

Step 29: Go to devices then click on devices and check the recent events whether the code is running or not.

30: Go to Board and click on + Create New Board, fill the details and create a board.

The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar includes tabs for Browse, Action, Device Types, and Interfaces. The main content area shows details for a specific device (ID: 12345), which is currently in a 'Disconnected' state. Below the device status, there is a section for 'Recent Events' with a table listing data received from the device.

Event	Value	Format	Last Received
event_1	{"Temperature":42,"Humidity":88}	json	a few seconds ago
event_1	{"Temperature":71,"Humidity":36}	json	a few seconds ago
event_1	{"Temperature":3,"Humidity":53}	json	a few seconds ago

At the bottom of the dashboard, a status bar indicates '1 Simulation running'.

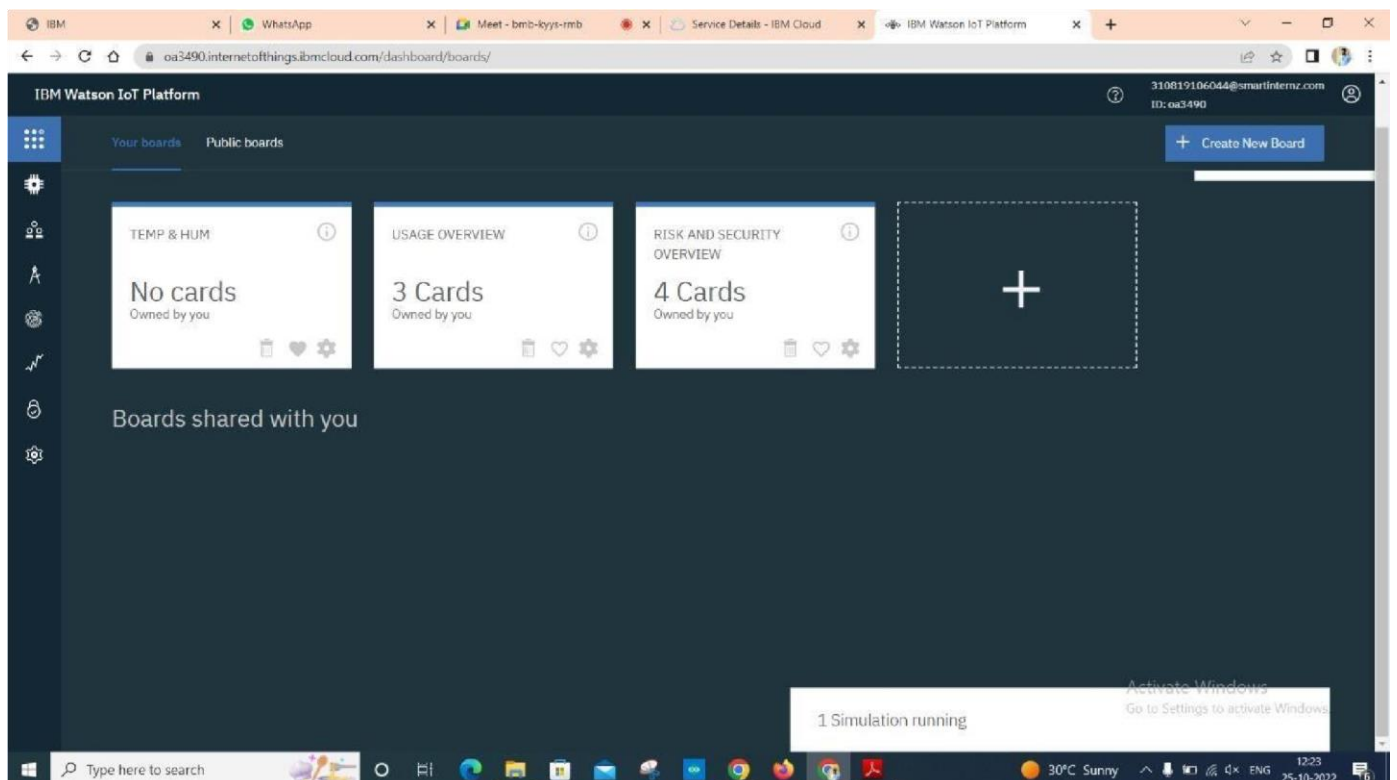
## Step

The screenshot displays the IBM Watson IoT Platform dashboard in a web browser. The browser's address bar shows the URL `oa3490.internetofthings.ibmcloud.com/dashboard/boards/`. The dashboard header includes the IBM Watson IoT Platform logo, a user profile with email `310819106044@smartinternz.com` and ID `oa3490`, and a `Create New Board` button. The main content area is divided into two tabs: `Your boards` (selected) and `Public boards`. Under `Your boards`, there are two boards: `USAGE OVERVIEW` with 3 cards and `RISK AND SECURITY OVERVIEW` with 4 cards, both marked as 'Owned by you'. A dashed box with a plus sign indicates a placeholder for a new board. Below these, a section titled `Boards shared with you` is visible. A notification bubble in the bottom right corner states `1 Simulation running`. The Windows taskbar at the bottom shows the search bar, task view, and various application icons, including Edge, File Explorer, and the IBM Watson IoT Platform application. The system tray displays the date and time as `12:22 25-10-2022` and the weather as `30°C Sunny`.

Step

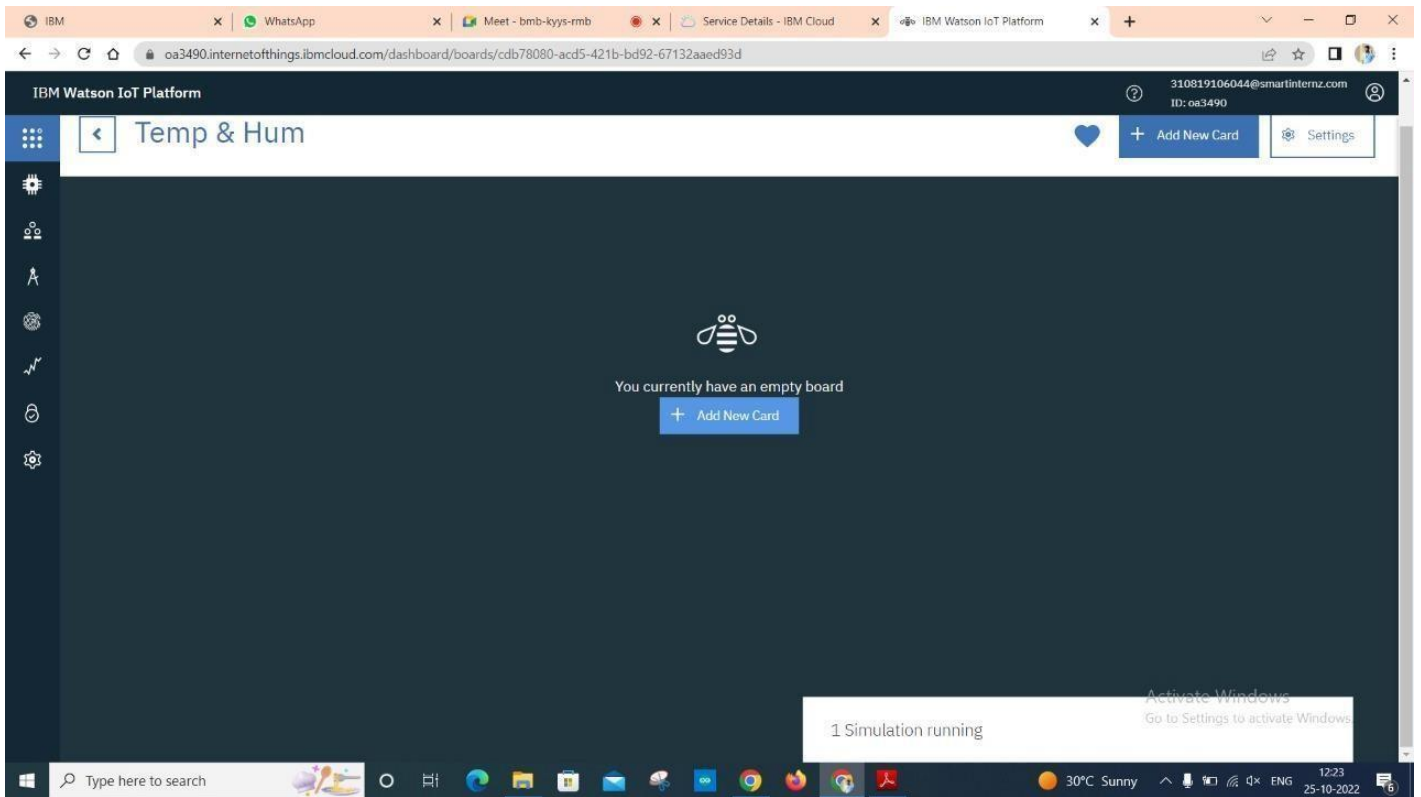
Step 31: Click on the board which is created.

32: Go Add New Card.





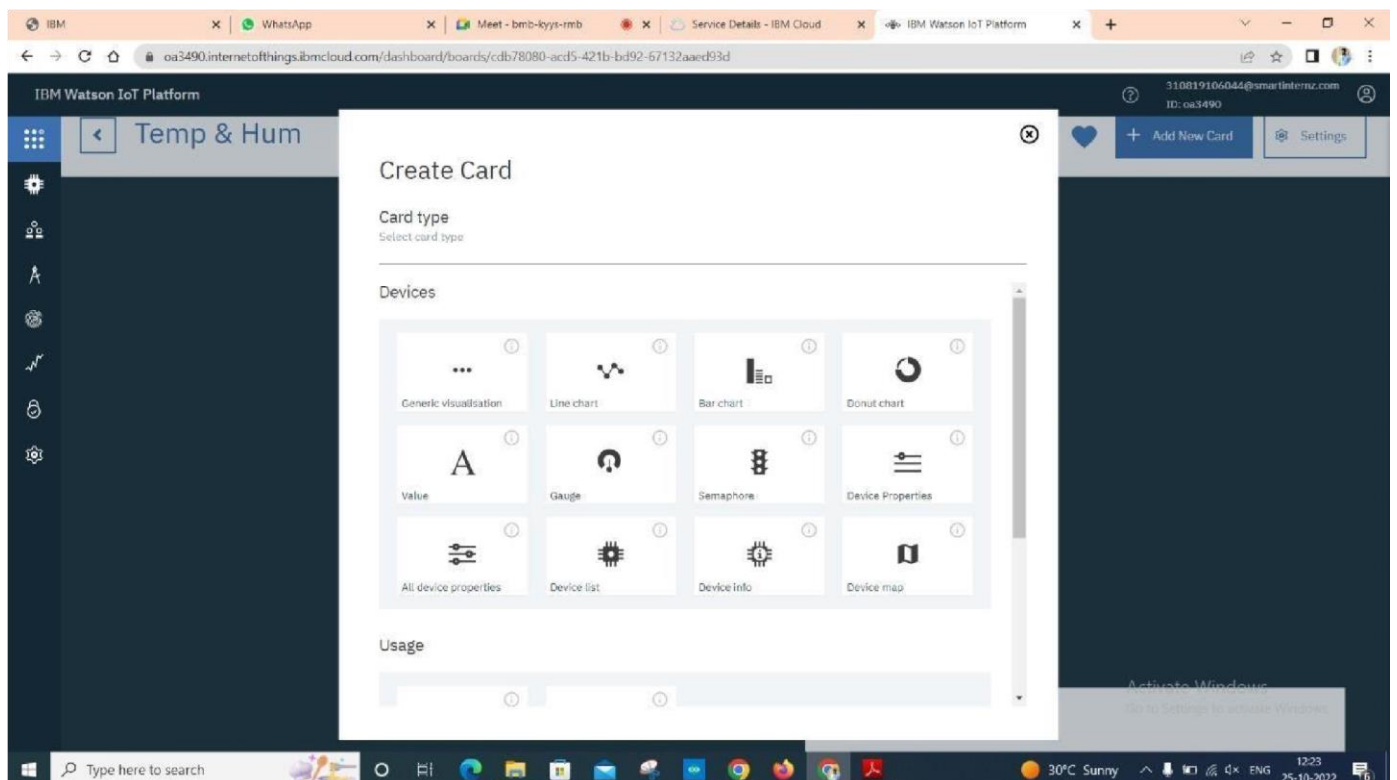
## Step



Step

Step 33: Choose the Card Type.

34: Choose the device.



## Step

The screenshot displays the IBM Watson IoT Platform interface. The browser's address bar shows the URL: `oa3490.internetofthings.ibmcloud.com/dashboard/boards/cdb78080-acd5-421b-bd92-67132aaed93d`. The page title is "Temp & Hum". A sidebar on the left contains icons for various IoT functions. The main content area features a "Create Line chart Card" dialog box. This dialog prompts the user to "Specify the data source for the card" and lists available "Devices". A table within the dialog shows the selected device:

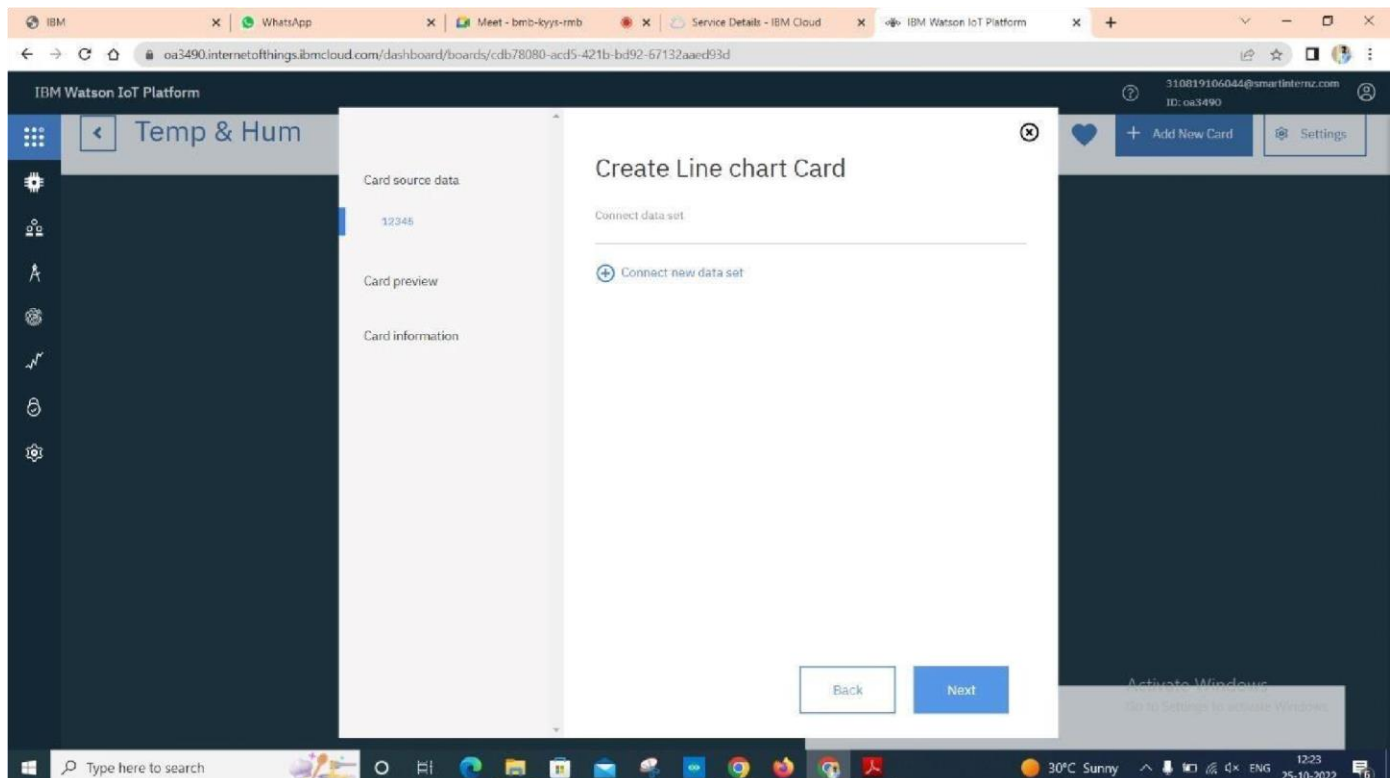
Device ID	Device Type
12345	TestDeviceType

The dialog includes a "Next" button at the bottom right. The background dashboard shows a "Card source data" section with the value "12345" and a "Card preview" section. The bottom of the screen shows a Windows taskbar with the search bar and system tray indicating 30°C Sunny and the date 25-10-2022.

Step

Step 35: Click on Connect new data set.

36: Fill the details to get Temperature graph.



## Step

The screenshot displays the IBM Watson IoT Platform interface. The browser's address bar shows the URL: `oa3490.internetofthings.ibmcloud.com/dashboard/boards/cdb78080-acd5-421b-bd92-67132aaed93d`. The page title is "Temp & Hum". A sidebar on the left contains navigation icons. The main content area is titled "Create Line chart Card" and includes a "Connect data set" section. The configuration fields are as follows:

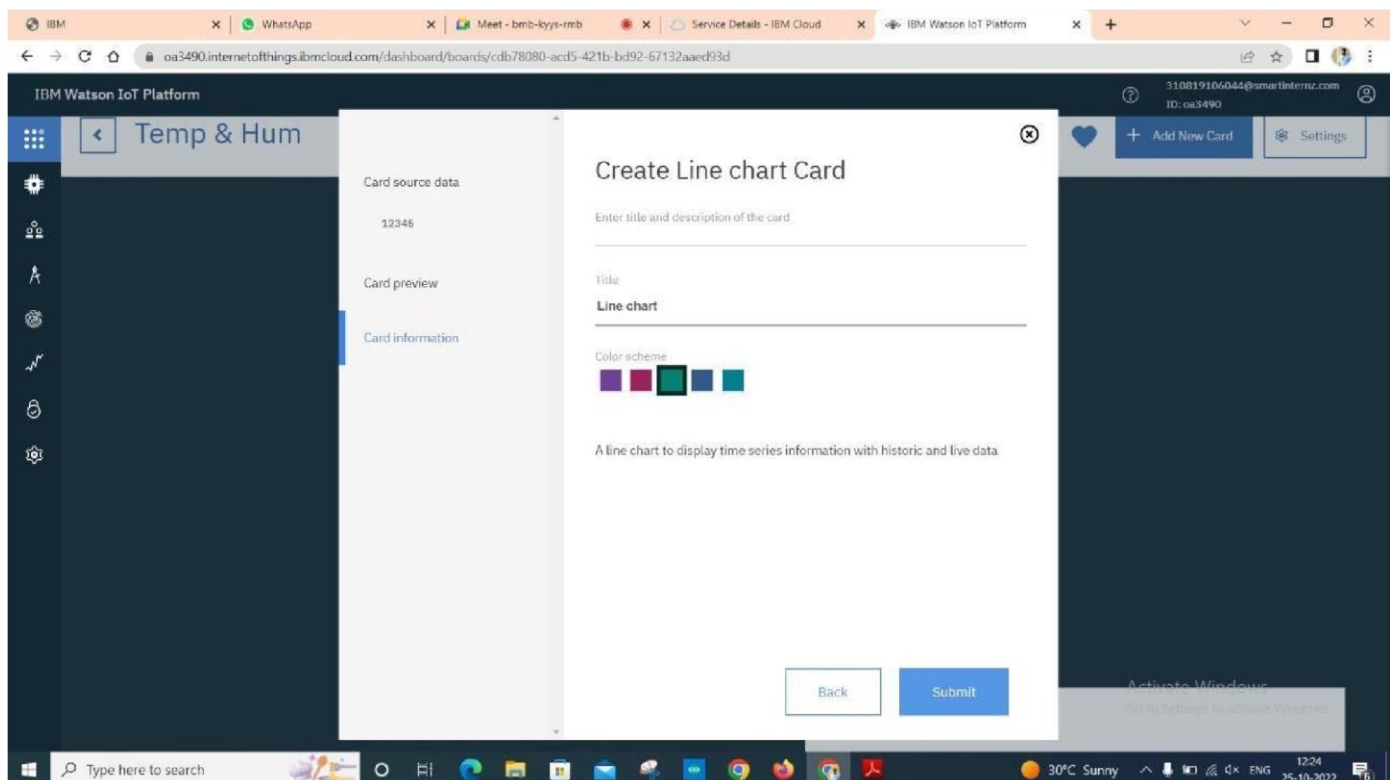
Field	Value
Event	event_1
Property	Temperature
Name	Temperature
Type	Number
Unit	
Max	100

At the bottom of the configuration window are "Back" and "Next" buttons. The Windows taskbar at the bottom shows the system clock as 12:24 on 25-10-2022, with a weather forecast of 30°C Sunny.

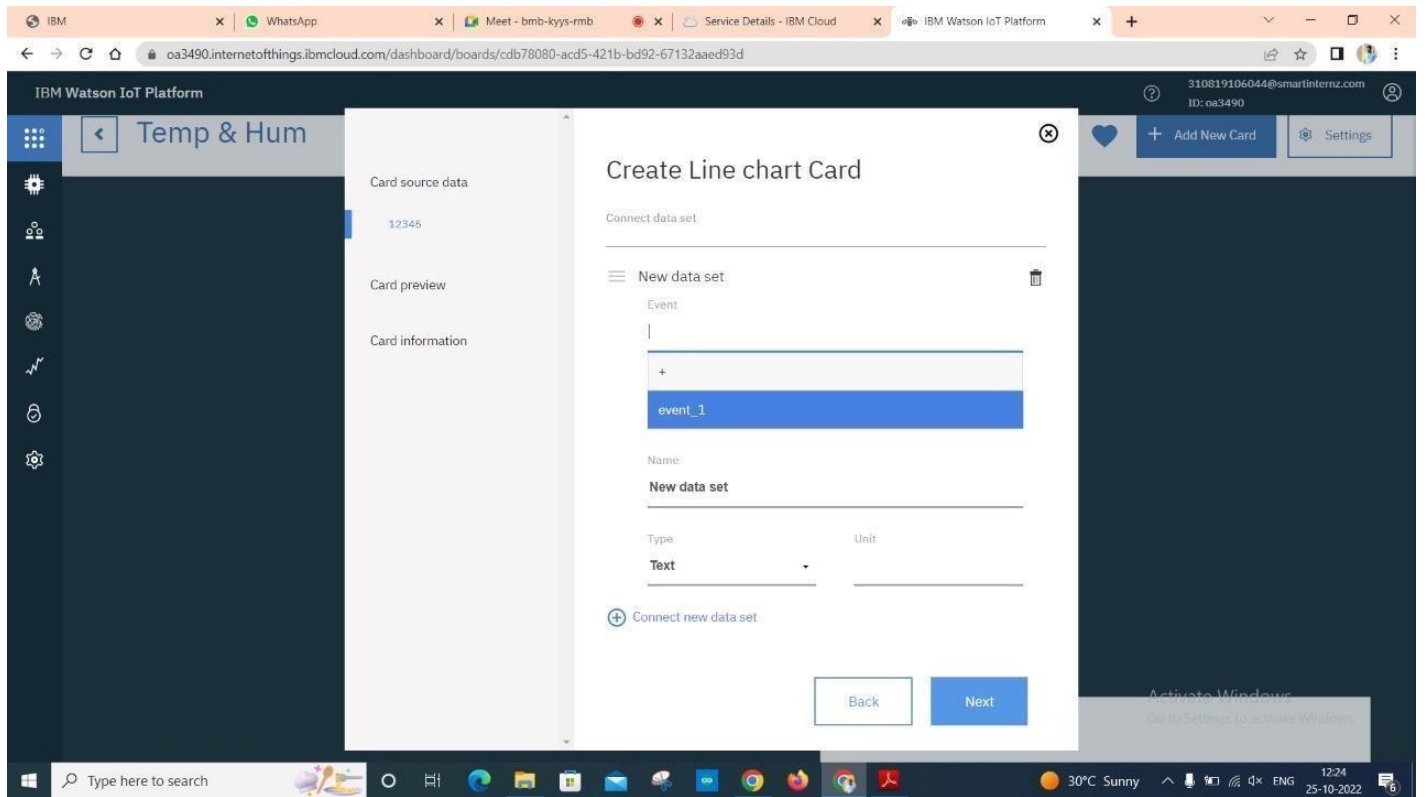
Step

Step 37: Choose the Colour.

38: Repeat the same process again to get the Humidity graph.

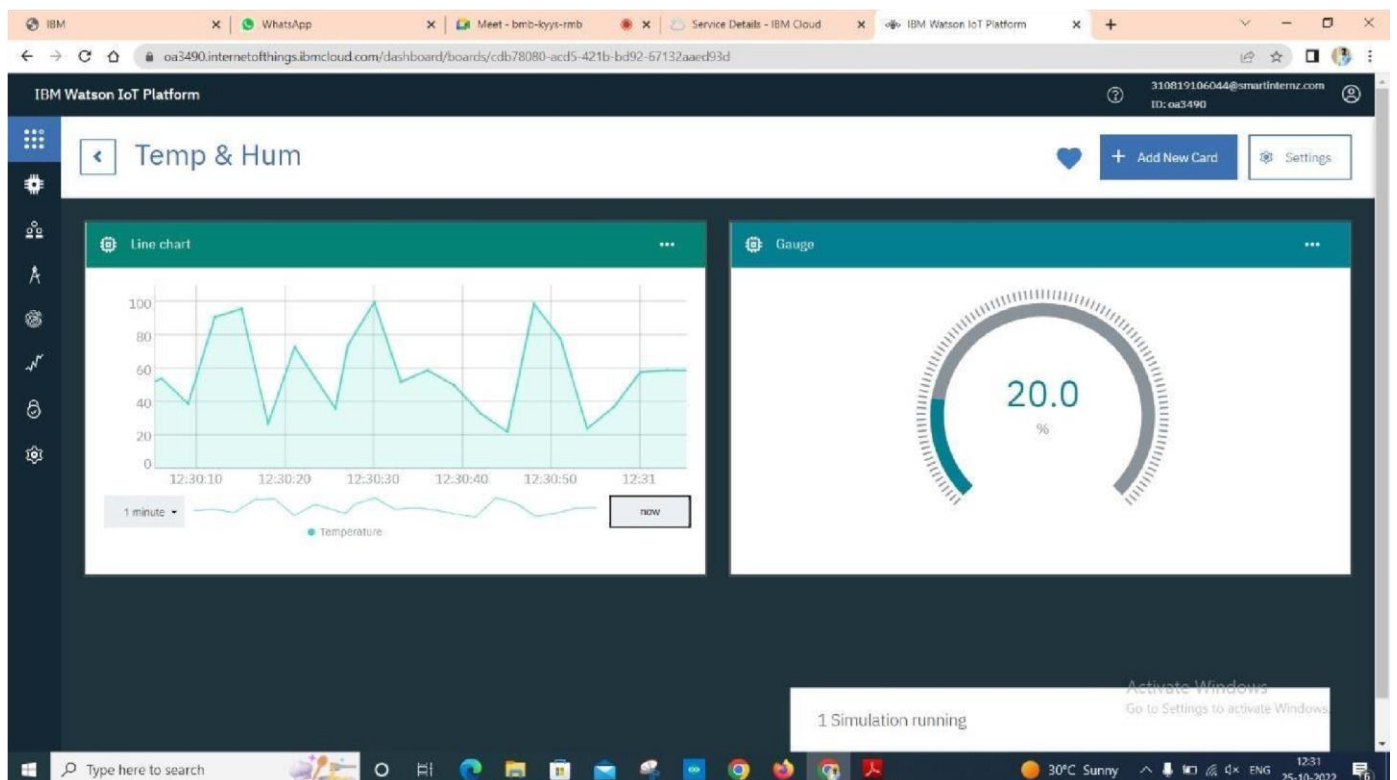


## Step



Step

Step 39: Here is the Final graph.





**Result:**

An IBM Watson cloud for IoT and a device is created successfully.