

CREATE IBMWATSON IOT PLATFORM AND DEVICE

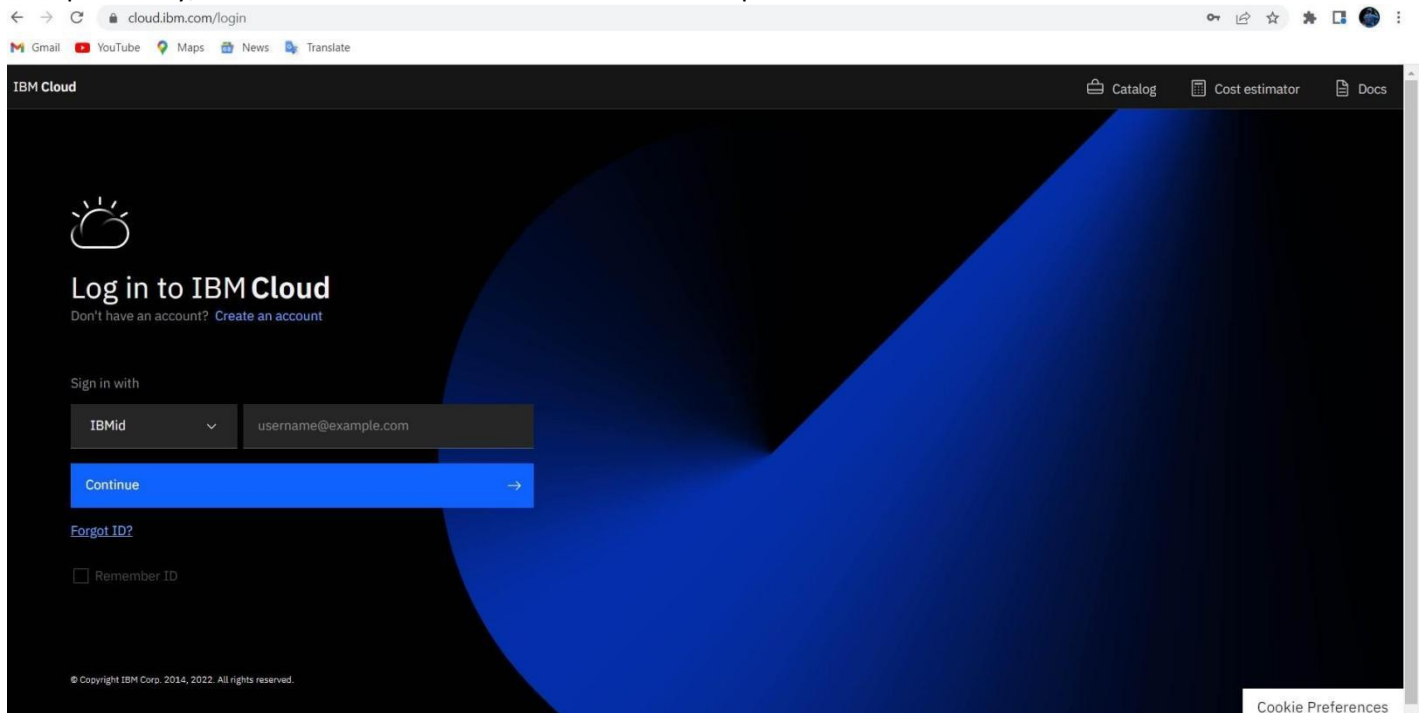
Date	Nov-7-2022
Team ID	PNT2022TMID54064
Project Name	Gas leakage monitoring and alerting system for industries

AIM:

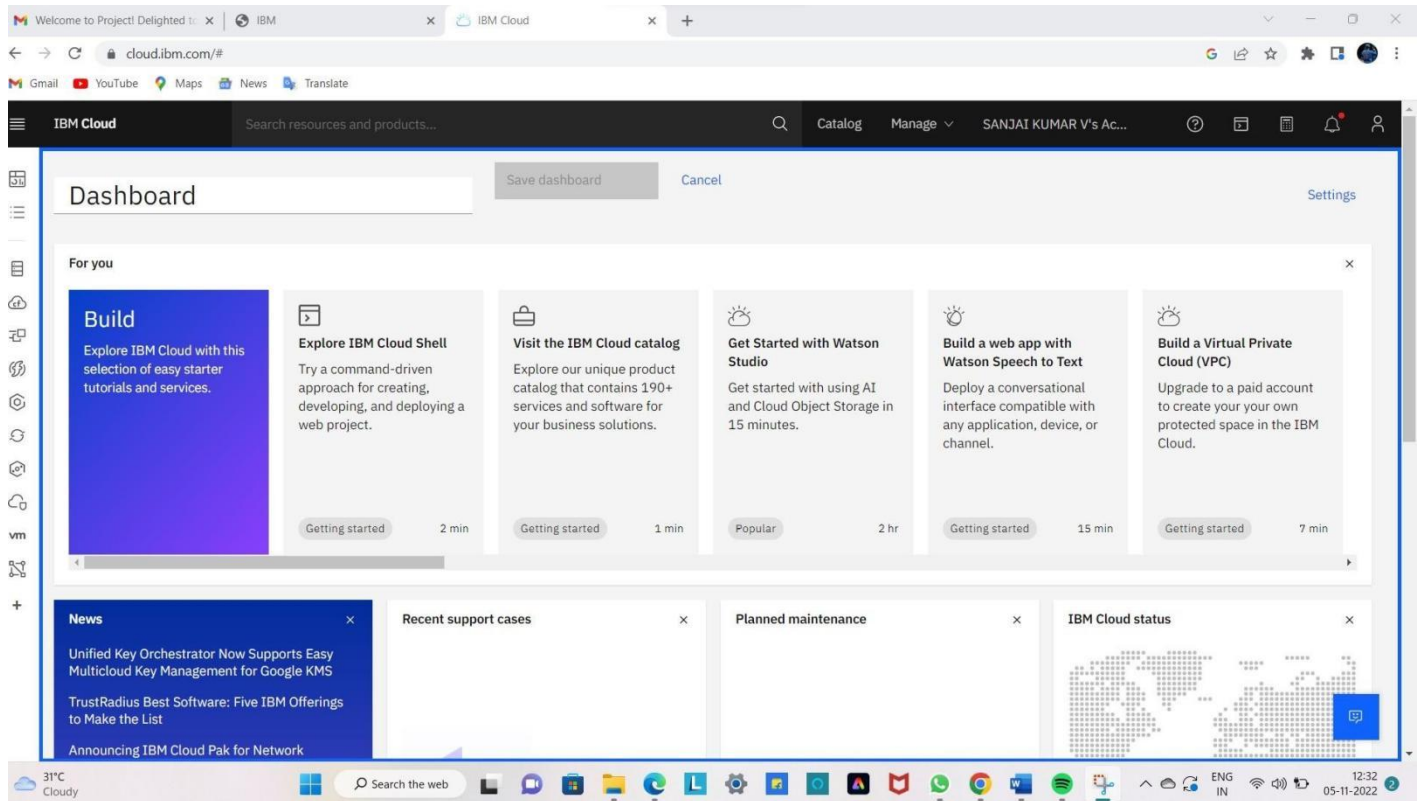
To create the IBM Watson IoT platform and device.

Steps to be followed

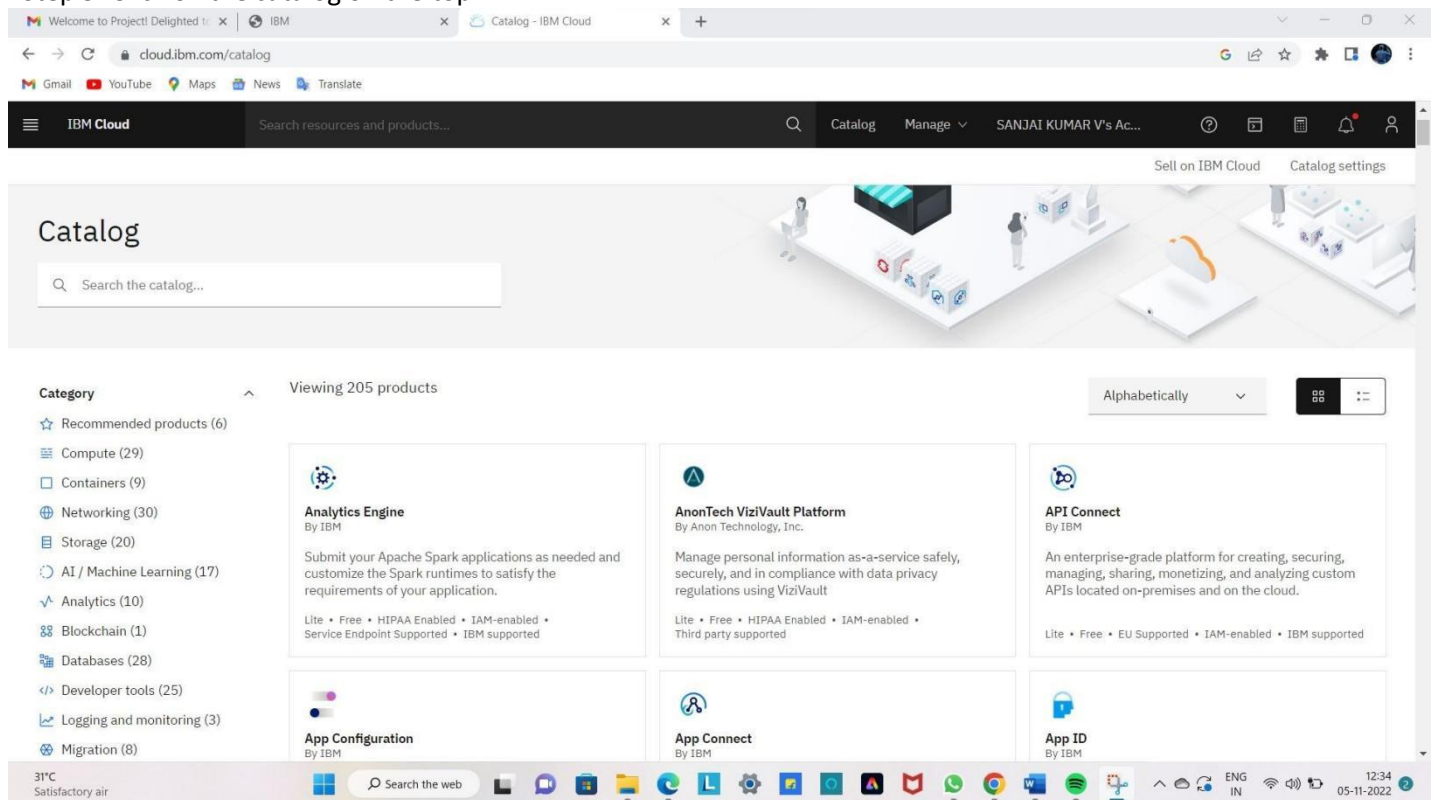
Step 1: Firstly, create an IBM cloud account with IBM id and password.



Step 2: Home page of IBM cloud.



Step 3: Click on the catalog on the top.



Step 4: Click on IoT in the category mentioned.

The screenshot shows the IBM Cloud Catalog homepage. The top navigation bar includes the IBM logo, a search bar, and links for Catalog, Manage, and the user profile (SANJAI KUMAR V's Ac...). Below the navigation bar is a search bar and links for 'Sell on IBM Cloud' and 'Catalog settings'. On the left, there is a sidebar with a list of categories: Compute (29), Containers (9), Networking (30), Storage (20), AI / Machine Learning (17), Analytics (10), Blockchain (1), Databases (28), Developer tools (25), Logging and monitoring (3), Migration (8), Integration (10), Internet of Things (1), Security (25), and Mobile (1). The 'Internet of Things (1)' category is highlighted. Below the sidebar, there is a 'Type' filter section with options for All, Services, and Professional services. The main content area displays a grid of product cards, including Analytics Engine, AnonTech ViziVault Platform, API Connect, App Configuration, App Connect, App ID, Bare Metal Servers for Classic, Bare Metal Servers for VPC, and Block Storage. Each card provides a brief description and supported features.

Step 5: Click on Internet of Things Platform.

The screenshot shows the IBM Cloud Catalog page for the 'Internet of Things Platform' product. The top navigation bar is the same as in the previous screenshot. The sidebar on the left shows the 'Type' filter section with 'All' selected. The main content area displays the product details for the 'Internet of Things Platform' by IBM. The product description states: '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.' Below the description, it lists supported features: 'Lite • Free • IAM-enabled • IBM supported'. There is a 'Learn more' link at the bottom of the product card. The bottom of the page shows a Windows taskbar with various application icons and system tray information.

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

The screenshot shows the IBM Cloud catalog page for the Internet of Things Platform. The 'Lite' plan is selected, which includes up to 500 registered devices and a maximum of 200 MB of each data metric. The pricing is free. The 'Configure your resource' section shows the service name as 'Internet of Things Platform-gm' and the resource group as 'Default'. The 'Summary' panel on the right shows the plan details and a warning about existing Lite plan instances.

Welcome to Project! Delighted to... x IBM x Internet of Things Platform - IBM x +

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

IBM Cloud Search resources and products...

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 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: Internet of Things Platform-gm

Select a resource group: Default

Tags: Examples: env:dev, version-1

Access management tags: Examples: access:dev, proj:version-1

Summary

Internet of Things Platform Free

Location: Frankfurt

Plan: Lite

Service name: Internet of Things Platform-gm

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

Step 7: Tick agreements and then click on create.

The screenshot shows the IBM Cloud catalog page for the Internet of Things Platform. The 'Lite' plan is selected, which includes up to 500 registered devices and a maximum of 200 MB of each data metric. The pricing is free. The 'Configure your resource' section shows the service name as 'Internet of Things Platform-gm' and the resource group as 'Default'. The 'Summary' panel on the right shows the plan details and a warning about existing Lite plan instances. The 'I have read and agree to the following license agreements' checkbox is now checked.

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

IBM Cloud Search resources and products...

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 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: Internet of Things Platform-gm

Select a resource group: Default

Tags: Examples: env:dev, version-1

Access management tags: Examples: access:dev, proj:version-1

Summary

Internet of Things Platform Free

Location: Frankfurt

Plan: Lite

Service name: Internet of Things Platform-gm

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

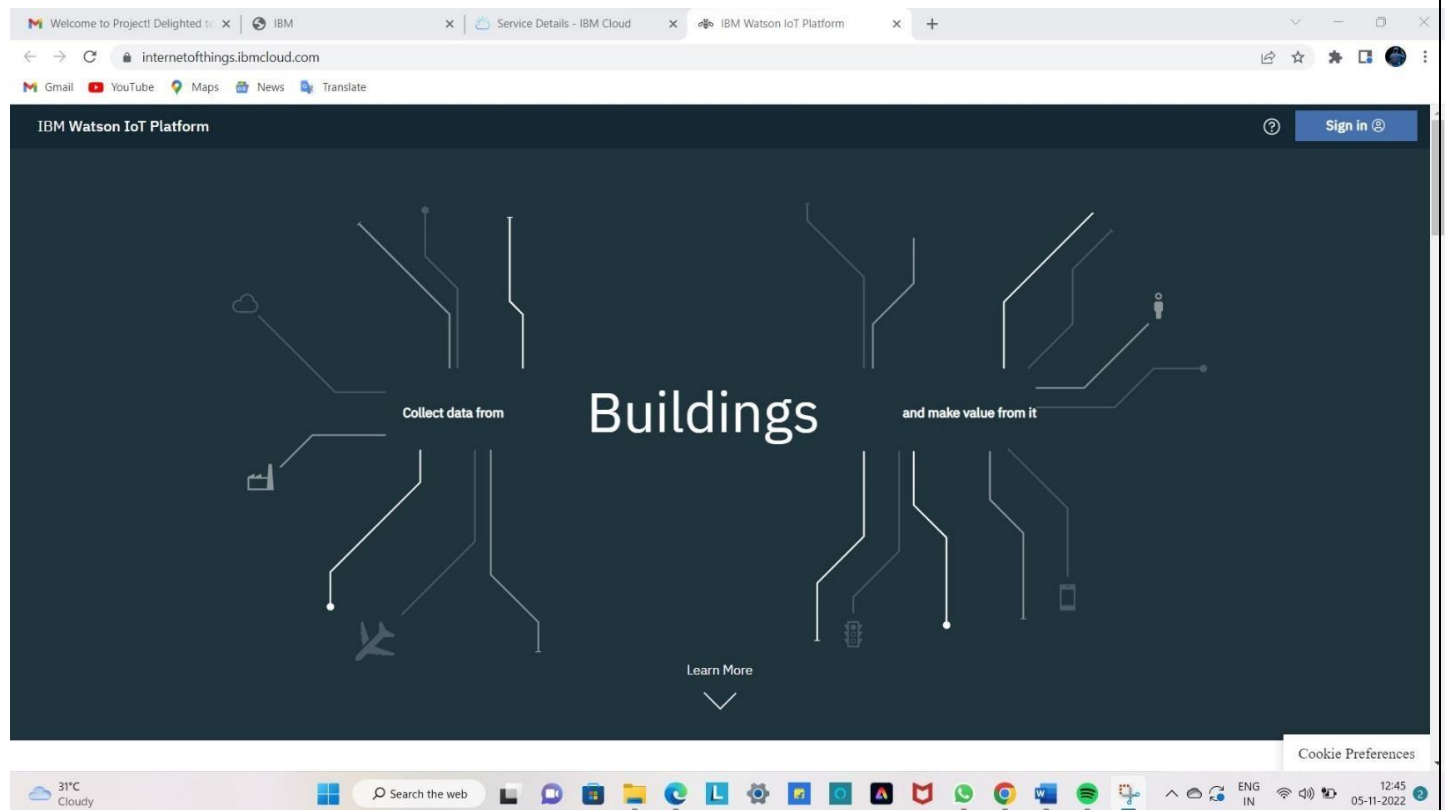
Step 8: Click on the launch button.

The screenshot shows the IBM Cloud interface. The top navigation bar includes the IBM Cloud logo, a search bar, and links for Catalog, Manage, and the user profile (SANJAI KUMAR V's Ac...). The main content area is titled "Internet of Things Platform-gb" and shows a "Launch" button. Below this, there is a section titled "Let's get started with IBM Watson IoT Platform" with a description: "Securely connect, control, and manage devices. Quickly build IoT applications that analyze data from the physical world." A "Launch" button is prominently displayed. Further down, a "Ready for the next level?" section introduces the "IBM Watson IoT Platform Journey" with three stages: Lite, Non-Production, and Production. The "Lite" stage is highlighted with a checkmark. The "Non-Production" stage is described as 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." The "Production" stage is described as a "fully managed SaaS offering that enables you to manage and analyze enterprise IoT data." The bottom of the screen shows a Windows taskbar with various application icons and a system tray displaying the date and time (12:43, 05-11-2022).

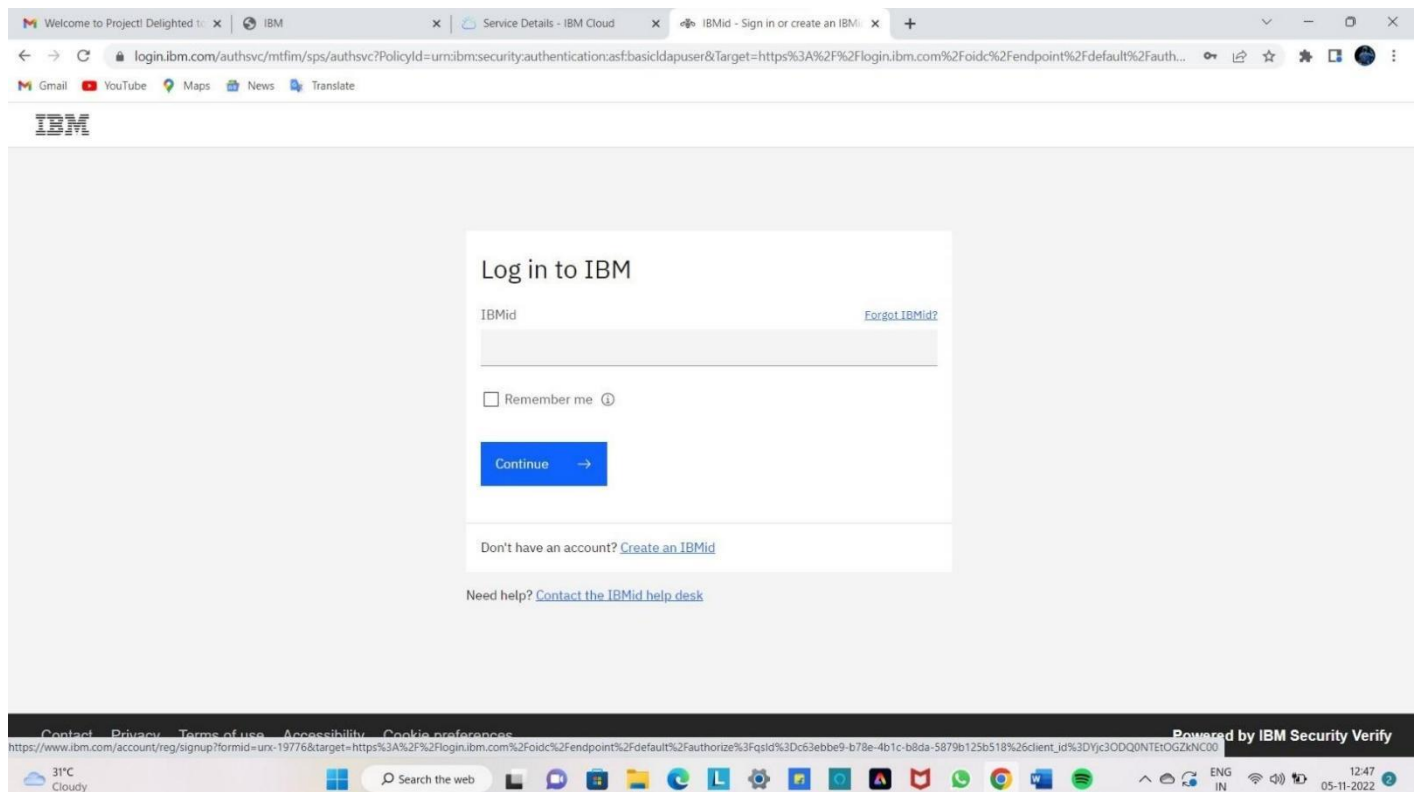
Step 9: After clicking on the launch button this tab will open.

The screenshot shows the IBM Watson IoT Platform landing page. The top navigation bar includes the IBM Watson IoT Platform logo, a search bar, and a "Sign in" button. The main content area features a large, stylized graphic with the text "Buildings" in the center. To the left of "Buildings" is the text "Collect data from" and to the right is "and make value from it". Below the "Buildings" text is a "Learn More" button. The background of the main content area is dark with white lines and icons representing various IoT devices and data flows. The bottom of the screen shows a Windows taskbar with various application icons and a system tray displaying the date and time (12:45, 05-11-2022).

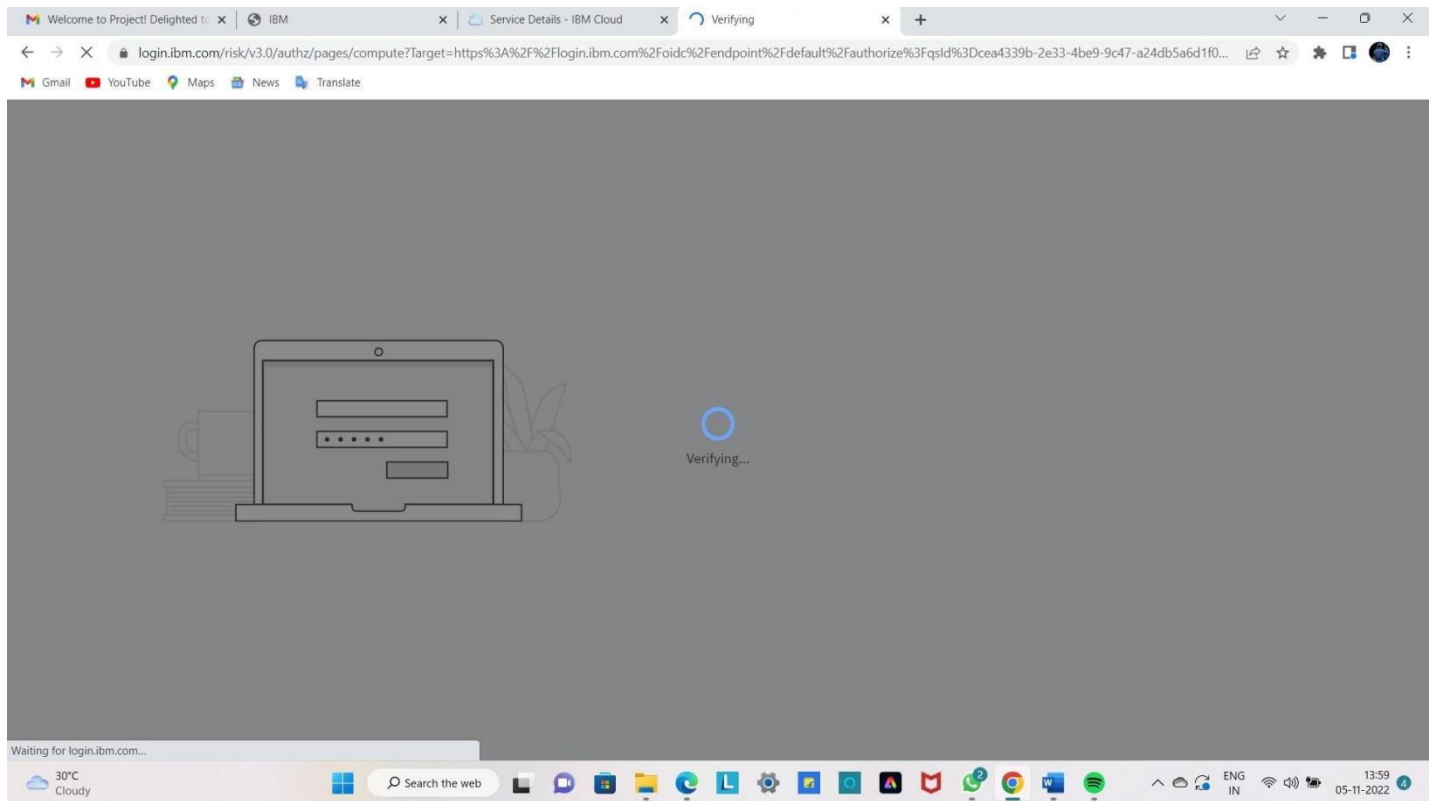
Step 10: Click on Sign in.



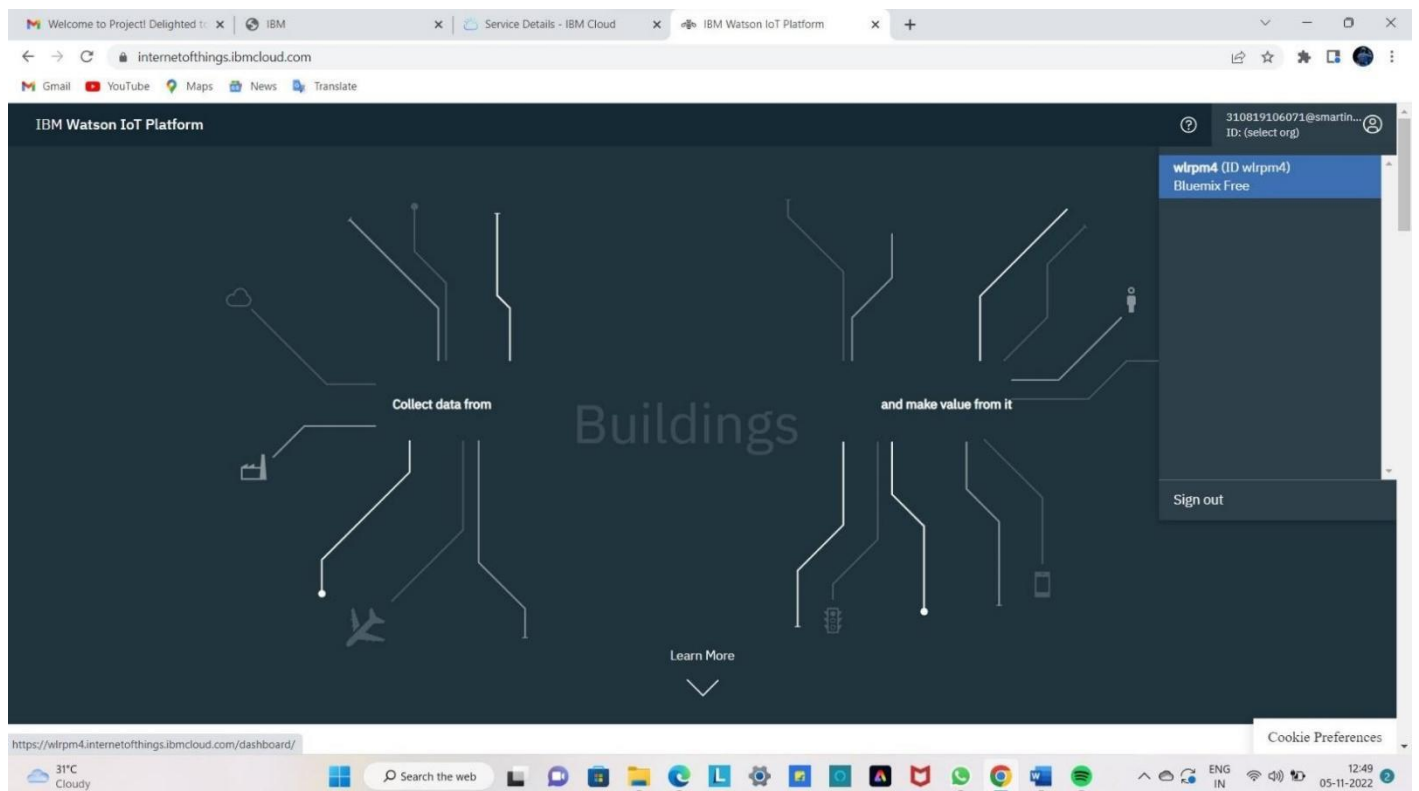
Step 11: Fill the login details.



Step 12: Sign in on progress.



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



Step 14: This is the IBM Watson platform.

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wlrpm4.internetofthings.ibmcloud.com/dashboard/devices/browse

Gmail YouTube Maps News Translate

IBM Watson IoT Platform 310819106071@smartinternz.com ID: wlrpm4

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 0 Simulations running

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
14325	Disconnected	Testdevicetype	Device	Nov 5, 2022 5:33 AM	

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

Microsoft Store 0 Simulations running

31°C Cloudy Search the web ENG IN 12:49 05-11-2022

Step 15: Click on Add Device.

Welcome to Project! Delighted to... x IBM x Service Details - IBM Cloud x IBM Watson IoT Platform x +

wlrpm4.internetofthings.ibmcloud.com/dashboard/devices/browse

Gmail YouTube Maps News Translate

IBM Watson IoT Platform 310819106071@smartinternz.com ID: wlrpm4

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 0 Simulations running

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
14325	Disconnected	Testdevicetype	Device	Nov 5, 2022 5:33 AM	

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

0 Simulations running

31°C Cloudy Search the web ENG IN 12:52 05-11-2022

Step 16: Click on Device Type.

The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The 'Add Device' wizard is open, showing a progress bar with four steps: Identity (selected), Device Information, Security, and Summary. Below the progress bar, a message states: '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 a placeholder 'Select or create a device type...' and 'Device ID' with a placeholder 'Enter Device ID'. At the bottom right of the wizard are 'Cancel' and 'Next' buttons. Below the wizard, the 'Browse Devices' section is visible, showing '0 Simulations running' and 'Adobe Express'.

Step 17: Fill the details.

The screenshot shows the IBM Watson IoT Platform interface with the 'Add Type' wizard open. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The 'Add Type' wizard has a progress bar with two steps: Identity (selected) and Device Information. Below the progress bar, a message states: '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.' There are three input fields: 'Type' with a dropdown menu showing 'Device' and 'Gateway' separated by 'Or', 'Name' with the text '12345', and 'Description' which is empty. Below the wizard, the '0 Simulations running' status is visible.

Step 18: Click on Register Devices.

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The 'Device Types' tab is active. A message at the top states 'You added the new device type: 12345'. Below this, the 'Register Device' button is highlighted. The main content area displays 'Optional Register Devices, Define Interfaces' and 'Now that you added a device type, you can register and connect devices for this type.' A large gear icon is visible on the right. The bottom status bar shows '0 Simulations running'.

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

The screenshot shows the 'Add Device' dialog box in the IBM Watson IoT Platform. The dialog has a progress bar with four steps: 'Identity', 'Device Information', 'Security', and 'Summary'. The 'Identity' step is currently selected. Below the progress bar, there is a text input field for 'Device Type' containing 'Testdevicetype' and another text input field for 'Device ID' containing '12345'. At the bottom right of the dialog, there are 'Cancel' and 'Next' buttons. The background shows the 'Browse Devices' section of the dashboard.

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

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The progress bar at the top indicates four steps: Identity, Device Information, Security, and Summary. The 'Summary' step is currently active. Below the progress bar, there is a message: 'Verify that the following information is correct then select Finish'. The information displayed is: Device Type: Testdevicetype, Device ID: 12345, and Security Token: To be generated. There is a 'View Metadata' button. At the bottom right, there are 'Back' and 'Finish' buttons. Below the wizard, there is a 'Browse Devices' section with 'All Devices' and 'Diagnose' buttons, and a status bar indicating '0 Simulations running'.

IBM Watson IoT Platform

310819106071@smartinternz.com
ID: wlrpm4

Browse

Identity Device Information Security Summary

Verify that the following information is correct then select Finish

Device Type
Testdevicetype

Device ID
12345

View Metadata

Security Token
To be generated

Back Finish

Browse Devices

All Devices Diagnose

0 Simulations running

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

The screenshot shows the 'Device Drilldown' page for device 12345 in the IBM Watson IoT Platform. The page title is 'Device Drilldown - 12345'. On the left, there is a sidebar with navigation links: Device Credentials, Connection Information, Recent Events, State, Device Information, Metadata, Diagnostics, Connection Logs, and Device Actions. The 'Device Credentials' section is selected. The main content area shows the 'Device Credentials' section with a message: '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.' Below this message, there is a table of credentials:

Organization ID	wlrpm4
Device Type	Testdevicetype
Device ID	12345
Authentication Method	use-token-auth
Authentication Token	fp-JK*sGer1(WMSs*B

Below the table, there is a warning icon and a message: 'Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token.' Below this message, there is a link: 'Find out how to add these credentials to your device'. At the bottom right, there is a status bar indicating '0 Simulations running'.

IBM Watson IoT Platform

310819106071@smartinternz.com
ID: wlrpm4

Back

Device Drilldown - 12345

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	wlrpm4
Device Type	Testdevicetype
Device ID	12345
Authentication Method	use-token-auth
Authentication Token	fp-JK*sGer1(WMSs*B

Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token.

Find out how to add these credentials to your device

0 Simulations running

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

The screenshot shows the IBM Watson IoT Platform dashboard at the URL `wlrpm4.internetofthings.ibmcloud.com/dashboard/settings`. The left sidebar contains a navigation menu with categories: **General Settings** (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 is titled "General Settings" and includes a description: "Here you can see and modify global organization information and locally enable experimental Watson IoT Platform features." It contains three sections: **Device Simulator** (with a description and a link to documentation, and a toggle switch for "Activate Device Simulator" which is turned on), **Connection Security** (with a description and a button "Open Connection Security Policy"), and **CA Certificates** (with a description and a link to the "Connection Security policy"). A status bar at the bottom right of the main content area indicates "0 Simulations running". The bottom of the browser window shows a Windows taskbar with various application icons, a search bar, and system tray icons including weather (31°C Cloudy), language (ENG IN), and time (13:05 05-11-2022).

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

This screenshot is identical to the one in Step 22, showing the IBM Watson IoT Platform dashboard settings page. It displays the same navigation menu, "General Settings" content area with sections for Device Simulator, Connection Security, and CA Certificates, and the "0 Simulations running" status. The browser window and Windows taskbar at the bottom are also identical, showing the same URL, system icons, and date/time information.

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

The screenshot shows the IBM Watson IoT Platform dashboard. The left sidebar contains navigation links for 'General Settings', 'DATA AND DEVICES', and 'SECURITY'. The 'Device Simulator' section is active, showing a toggle switch for 'Activate Device Simulator' which is currently turned on. Below this, there is a 'Connection Security' section with a button to 'Open Connection Security Policy'. Further down is the 'CA Certificates' section with a button to 'Add Certificate'. A blue box highlights the text '0 Simulations running' in the bottom right corner of the main content area.

Step 25: Click on Create Simulation.

This screenshot shows the same IBM Watson IoT Platform settings page as before, but with a 'Simulations' pop-up window open on the right side. The pop-up window contains the following text: '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.' Below this, it lists steps to create a device simulation: '1. Select a device type.', '2. Configure the event and payload.', and '3. Add devices.' At the bottom of the pop-up is a blue button labeled '+ Create simulation'.

Step 26: Choose the Device.

The screenshot shows the IBM Watson IoT Platform 'General Settings' page. The left sidebar contains navigation links for 'General Settings', 'DATA AND DEVICES', and 'SECURITY'. The main content area is titled 'General Settings' and includes sections for 'Client Connection State API', 'CA Certificates', and 'Connection Security'. A 'Simulations' modal is open on the right, displaying instructions on how to create a device simulation. The modal lists three steps: 1. Select a device type, 2. Configure the event and payload, and 3. Add devices. Below the steps is a text input field labeled 'Select or create a device type...'. The browser's address bar shows the URL 'wlrpm4.internetofthings.ibmcloud.com/dashboard/settings'.

IBM Watson IoT Platform

General Settings

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

Client Connection State API

Open Connection Security Policy

DATA AND DEVICES

Custom Device Management Packages

Device Simulator

SECURITY

Connection Security

CA Certificates

Messaging Server Certificates

Group Access beta

Simulations

Import/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...

Step 27: Type the code.

The screenshot shows the IBM Watson IoT Platform 'Browse Devices' page. The left sidebar contains navigation links for 'Browse', 'Action', 'Device Types', and 'Interfaces'. The main content area is titled 'Browse Devices' and includes a table of devices. A 'Testdevice' modal is open on the right, displaying the 'Events' section. The modal shows the event type name 'event_1' and the frequency '20 x Every Minute'. The payload section contains a JSON object with 'temperature' and 'humidity' fields, both set to 'random(0, 100)'. The modal also includes a 'Send' button and a 'What functions can I apply?' link. The browser's address bar shows the URL 'wlrpm4.internetofthings.ibmcloud.com/dashboard/devices/browse'.

IBM Watson IoT Platform

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 ID	Status	Device Type	Class ID	Device Name
12345	Disconnected	Testdevice	Device	No
14325	Disconnected	Testdevice	Device	No

Items per page 50 | 1-2 of 2 items

Testdevice 12345

Events 1

Event type name event_1 Frequency 20 x Every Minute Send

Payload

You can override field values in the event payload that is sent by this device. Specify the override values in the editor window.

```
0 {
1   "temperature": random(0, 100),
2   "humidity": random(0, 100)
3 }
4
```

What functions can I apply?

Cancel Save

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

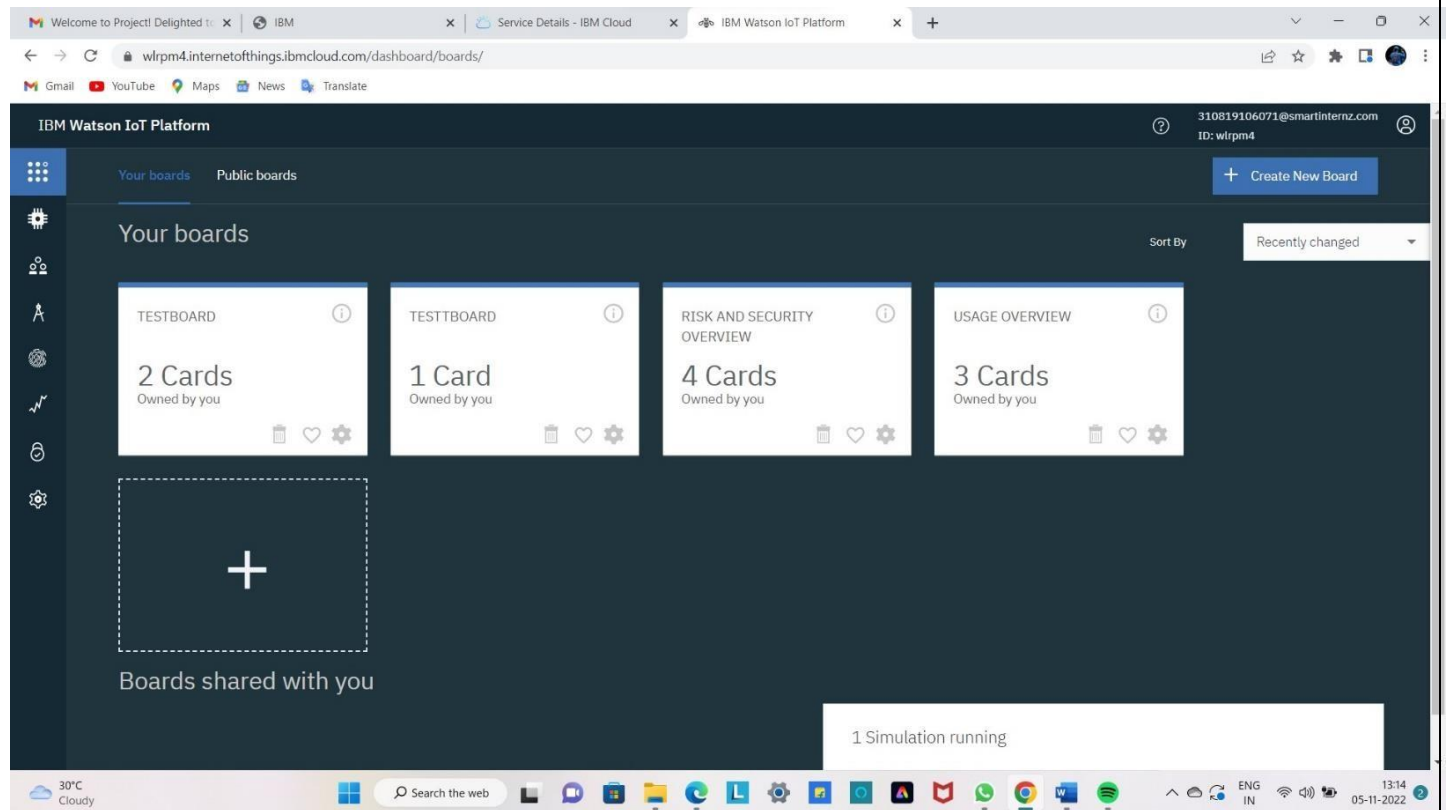
The screenshot shows the IBM Watson IoT Platform interface. The left sidebar contains navigation options: General Settings, DATA AND DEVICES, and SECURITY. The main content area is titled 'General Settings' and includes sections for 'Connection Security Policy' and 'CA Certificates'. A 'Simulations' panel is open on the right, showing '1/50 Simulations Running' and a list of devices. The 'Device Type' is 'Testdevicetype' and the 'Device' is '12345'. The 'Simulations' panel has buttons for 'Create Simulated Device' and 'Use Registered Device'. The 'Use Registered Device' button is highlighted. The bottom status bar shows '2 events sent' and '76 bytes sent'.

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

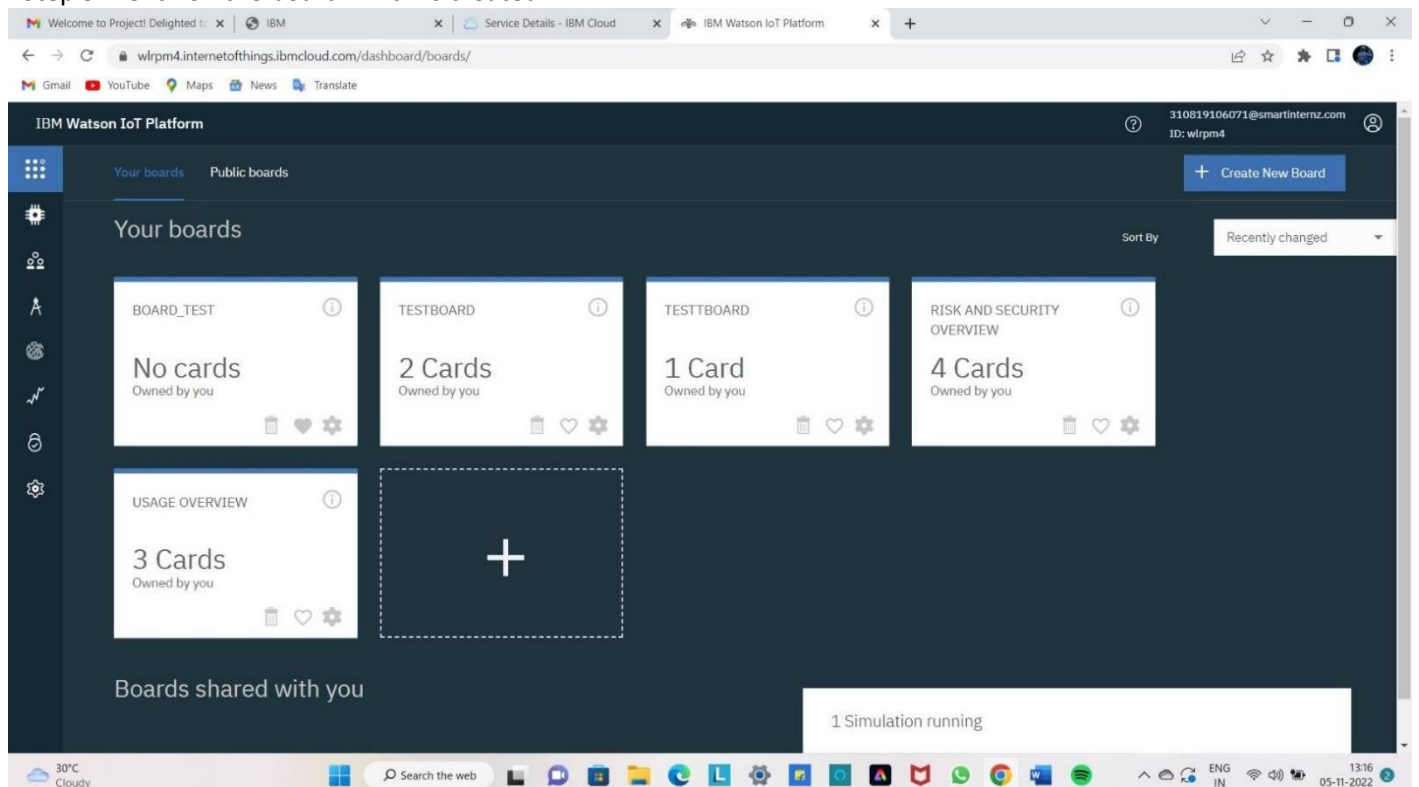
The screenshot shows the IBM Watson IoT Platform interface. The left sidebar contains navigation options: Browse, Action, Device Types, and Interfaces. The main content area is titled 'Devices' and includes a search bar and a table of devices. The table has columns: Device ID, Status, Device Type, Class ID, Date Added, and Descriptive Location. The device '12345' is listed with status 'Disconnected' and device type 'Testdevicetype'. Below the table, the 'Recent Events' tab is selected, showing a list of events. The events are listed in a table with columns: Event, Value, Format, and Last Received. The events are: event_1, event_1, event_1, and event_1. The values are: {"temperature":63,"humidity":8}, {"temperature":56,"humidity":9}, {"temperature":40,"humidity":76}, and {"temperature":61,"humidity":36}. The format is 'json' for all events. The last received time is 'a few seconds ago' for all events. A '1 Simulation running' notification is visible at the bottom right.

Event	Value	Format	Last Received
event_1	{"temperature":63,"humidity":8}	json	a few seconds ago
event_1	{"temperature":56,"humidity":9}	json	a few seconds ago
event_1	{"temperature":40,"humidity":76}	json	a few seconds ago
event_1	{"temperature":61,"humidity":36}	json	a few seconds ago

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



Step 31: Click on the board which is created.



Step 32: Go Add New Card.

The screenshot shows the IBM Watson IoT Platform dashboard. The browser address bar displays the URL: `wlrpm4.internetofthings.ibmcloud.com/dashboard/boards/d3782066-a262-4a76-aba5-8a3b998b7414`. The dashboard header includes the user profile '310819106071@smartinternz.com' and the ID 'ID: wlrpm4'. The main content area shows a dark blue background with a white bee icon and the text 'You currently have an empty board'. A blue button labeled '+ Add New Card' is prominently displayed in the center. In the bottom right corner, a small white box indicates '1 Simulation running'. The left sidebar contains various navigation icons, and the bottom status bar shows the system clock at 13:17 on 05-11-2022.

Step 33: Choose the Card Type.

The screenshot shows the 'Create Card' dialog box overlaid on the dashboard. The dialog has a title 'Create Card' and a subtitle 'Card type' with the instruction 'Select card type'. It features a grid of card type options under the heading 'Devices'. The options include: 'Generic visualisation', 'Line chart', 'Bar chart', 'Donut chart', 'Value', 'Gauge', 'Semaphore', 'Device Properties', 'All device properties', 'Device list', 'Device info', and 'Device map'. Each option is represented by a small icon and a text label. The dialog also has a 'Usage' section at the bottom. The background dashboard shows the same 'board_test' board with the 'Add New Card' button visible.

Step 34: Choose the device.

The screenshot shows the IBM Watson IoT Platform interface. A modal window titled "Create Line chart Card" is open, displaying the "Devices" tab. The tab contains a search bar and a table of available devices. The device with ID "12345" is selected. The "Next" button is located at the bottom right of the modal.

Device ID	Device Type
<input checked="" type="radio"/> 12345	Testdevicetype
<input type="radio"/> 14325	Testdevicetype

Step 35: Click on Connect new data set.

The screenshot shows the same IBM Watson IoT Platform interface. The "Create Line chart Card" modal is still open, but now the "Connect data set" section is visible. It includes a button labeled "Connect new data set". The "Back" and "Next" buttons are at the bottom of the modal.

Step 36: Fill the details to get Temperature graph.

IBM Watson IoT Platform

310819106071@smartinternz.com
ID: wlrpm4

board_test

Card source data
12345

Card preview

Card information

Create Line chart Card

Connect data set

temperature

Event
event_1

Property
temperature

Name
temperature

Type
Number

Unit
°C

Min
0

Max
100

Back Next

30°C Cloudy

Search the web

ENG IN

14:09 05-11-2022

Step 37: Choose the Colour.

IBM Watson IoT Platform

310819106071@smartinternz.com
ID: wlrpm4

Your boards Public boards

Create Line chart Card

Enter title and description of the card

Title
Line chart

Color scheme

A line chart to display time series information with historic and live data

Back Submit

30°C Cloudy

Search the web

ENG IN

13:21 05-11-2022

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

The screenshot shows the IBM Watson IoT Platform interface. A modal window titled 'Create Gauge Card' is open, prompting the user to 'Specify the data source for the card'. Under the 'Devices' tab, a search filter is present, and a table lists two devices:

Device ID	Device Type
<input checked="" type="radio"/> 12345	Testdevicetype
<input type="radio"/> 14325	Testdevicetype

A 'Next' button is at the bottom right of the modal. In the background, a 'board_test' dashboard is visible with a line chart showing data over time.

Step 39: Here is the Final graph.

The screenshot shows the final dashboard configuration for 'board_test'. It features two main cards:

- Gauge Card:** Displays a semi-circular gauge with the value '80.0 %'.
- Line chart Card:** Displays a line graph for 'temperature' data. The x-axis shows time from 13:21 to 13:25, and the y-axis ranges from 0 to 80. The graph shows a highly fluctuating data series.

At the bottom of the dashboard, a status bar indicates '1 Simulation running'. The system tray at the bottom shows the date and time as 13:25 on 05-11-2022.

Result:

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