

TEAM ID PNT2022TMID25071

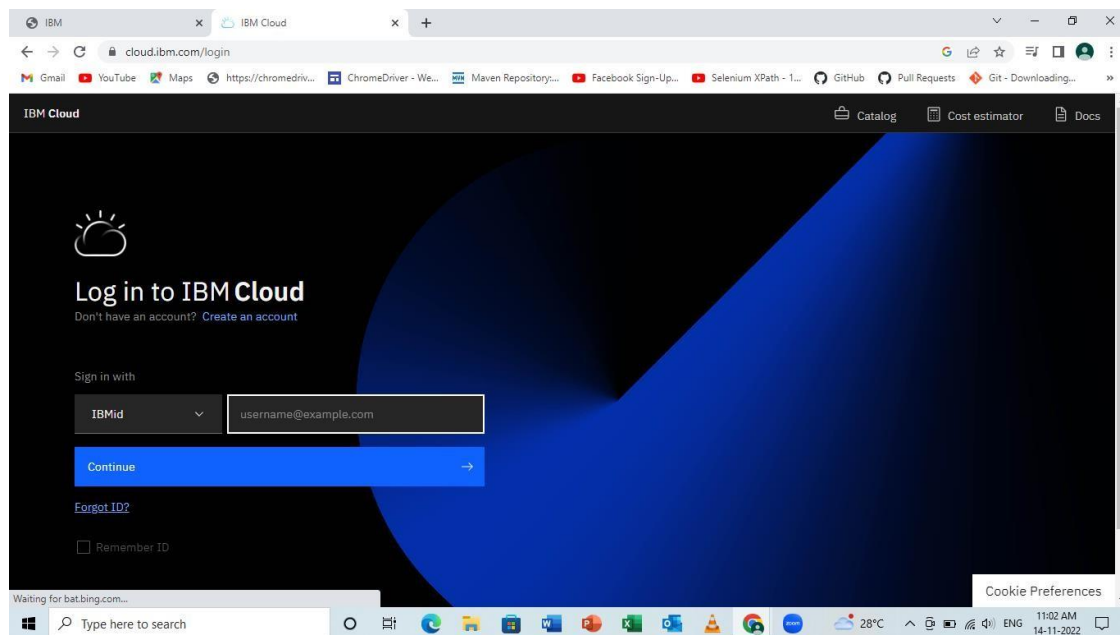
## Create IBM Watson IoT Platform And Device

### Aim:

To create the IBM Watson IoT platform and device.

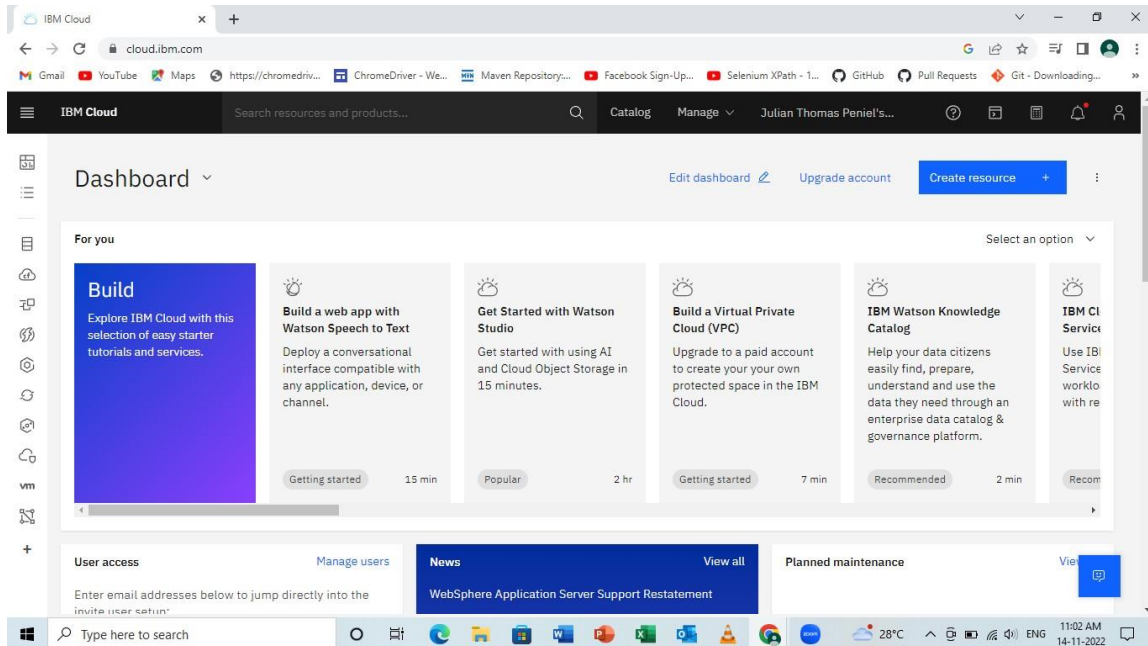
### Steps:

1. First create an IBM cloud account with IBM ID and password.

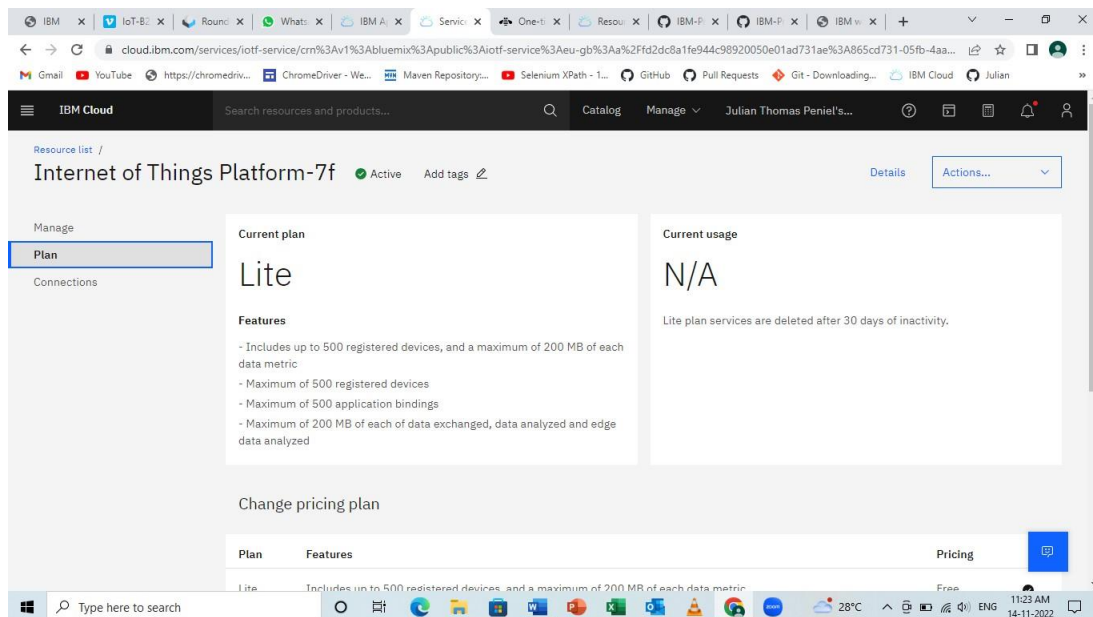


2. Home Page of IBM CLOUD.

Team ID PNT2022TMID25071

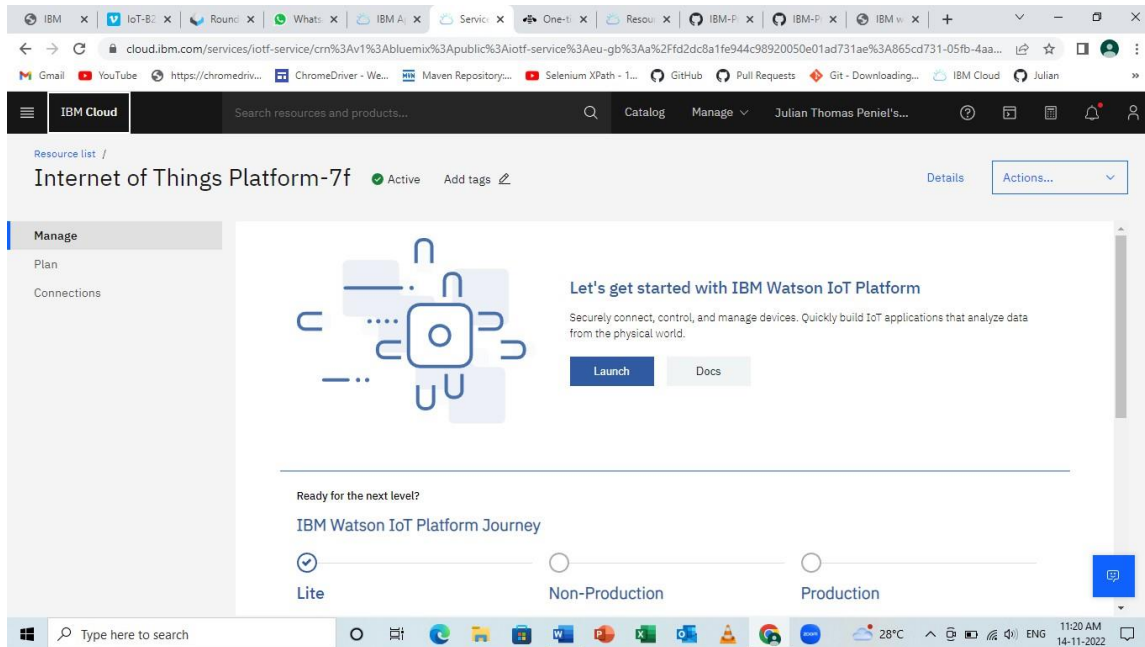


3. Internet of Things Platform Child safety will be created, where there are different options like manage, plan, and connection.

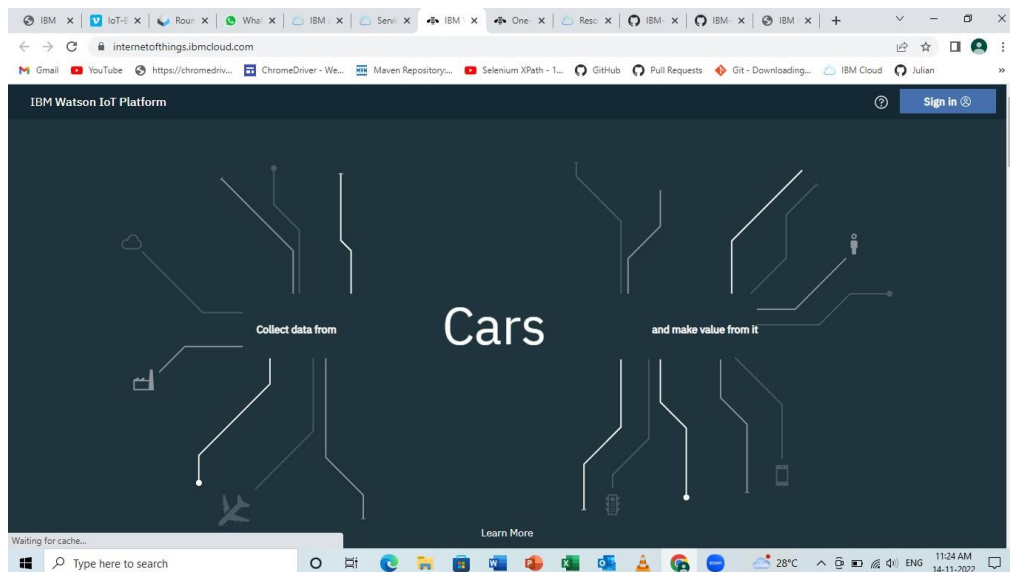


Team ID PNT2022TMID25071

4. Clicking on launch button in the manage tab, it will open to this.



5. Enter the details to sign in to Watson Cloud to create a device.



Team ID PNT2022TMID25071

Log in to IBM

IBMid [Forgot IBMid?](#)

310819106036@smartinternz.com

☒ Remember me ⓘ

[Continue](#)

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

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

Contact Privacy Terms of use Accessibility Cookie preferences

Powered by IBM Security Verify

6. Once logged in the name will be displayed and it will go back to first page.

IBM Watson IoT Platform

310819106036@smartinternz.com  
ID: (select org)

Collect data from

Cars

and make value from it

About cookies on this site  
Our websites require some cookies to function properly (required). In addition, other cookies may be used with your consent to analyze site usage, improve the user experience and for advertising.

For more information, please review your [Cookie preferences](#) options and IBM's [privacy statement](#).

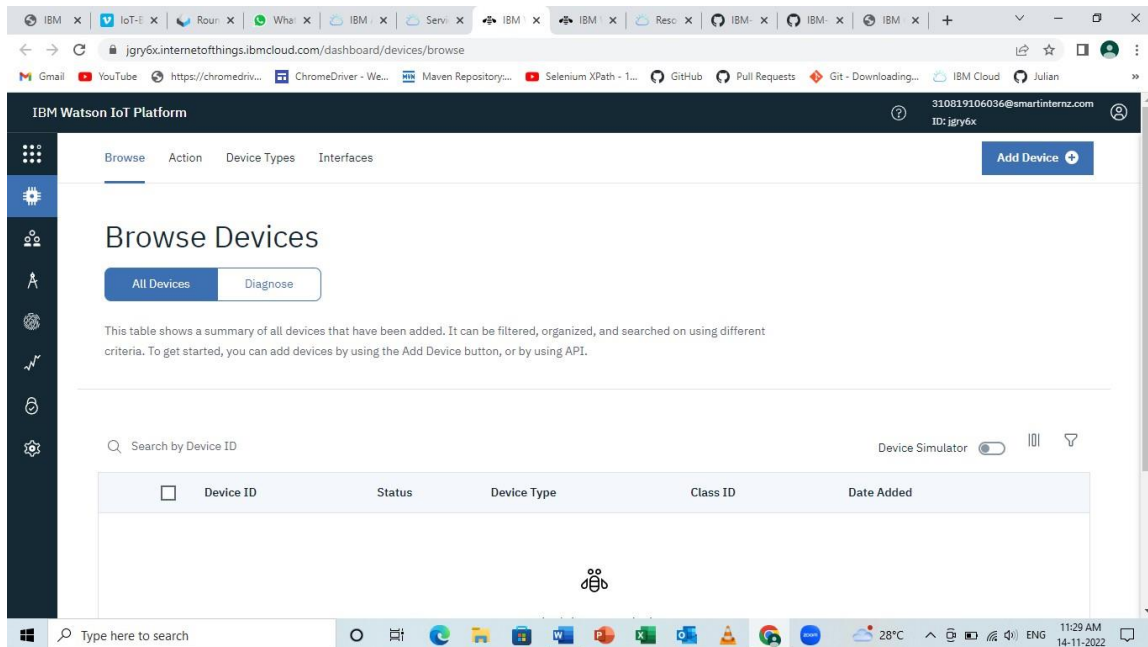
To provide a smooth navigation, your cookie preferences will be shared across the IBM web domains listed [here](#).

[Accept all](#)

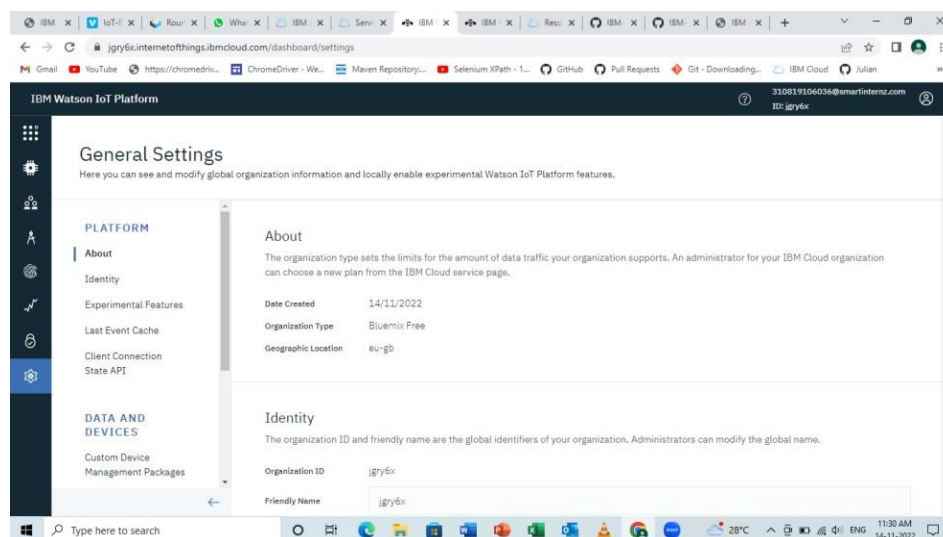
[Required only](#)

**Team ID PNT2022TMID25071**

7. And clicking again 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.

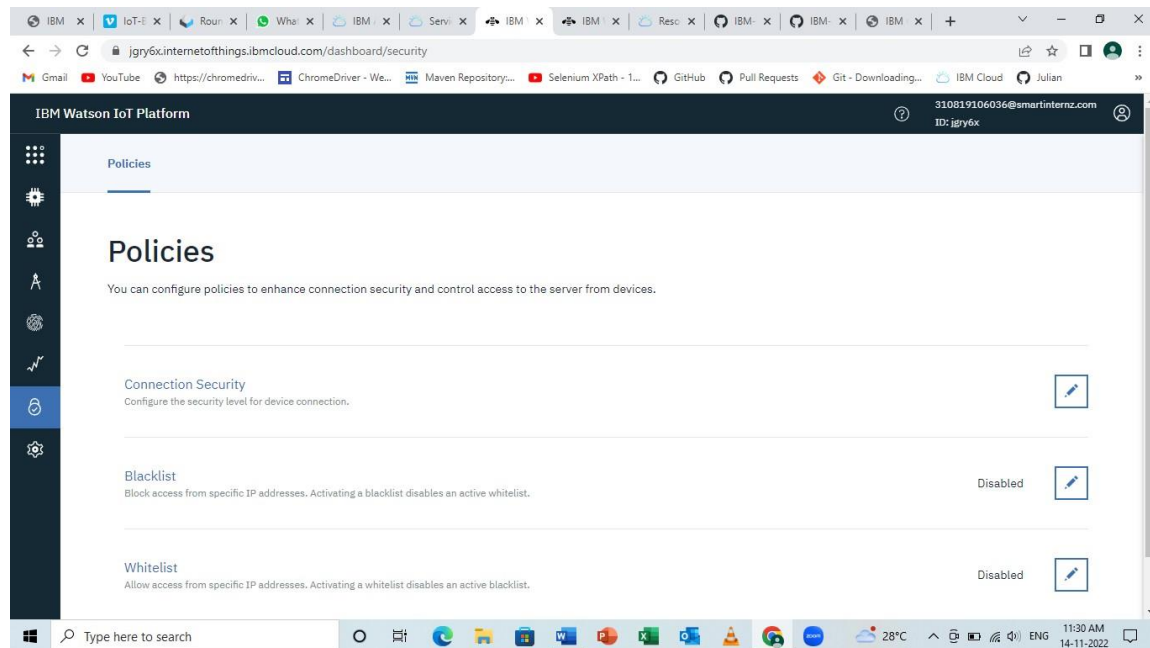


8. The setting tab is used to change the general setting if needed for the project.

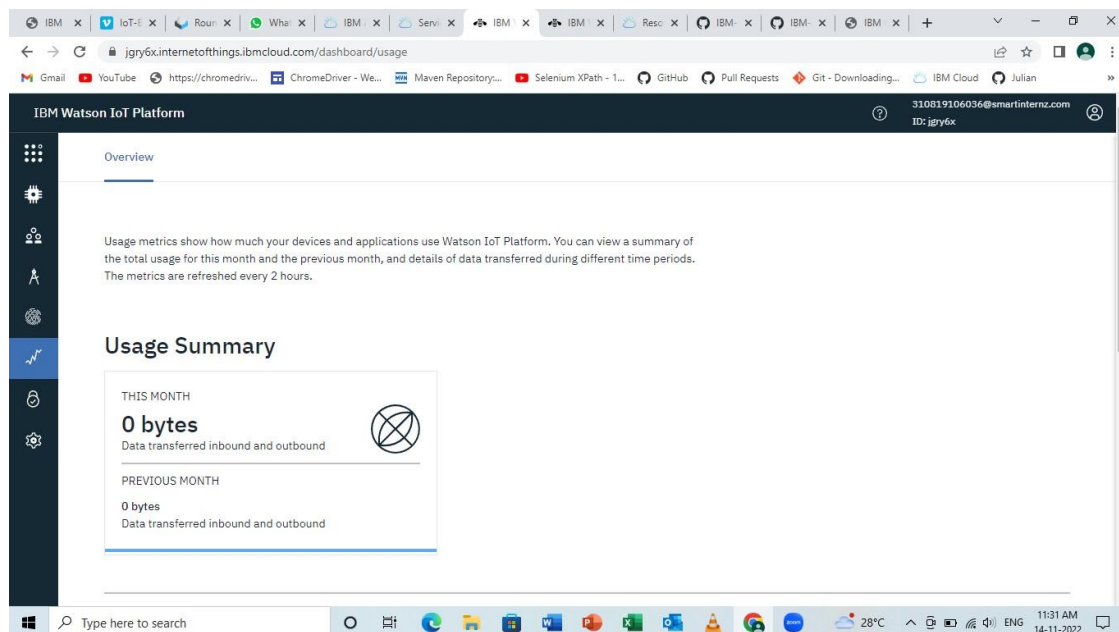


Team ID PNT2022TMID25071

9. the security tab we can choose the type of security connection and can change according to specification.



10. Usage gives the summary of how many bytes are used between the devices and the IBM cloud.



Team ID PNT2022TMID25071

11. The member tab is add the teams members to work in the platform.

The screenshot shows the 'Browse Members' page in the IBM Watson IoT Platform. The page has a dark sidebar with navigation icons. The main content area has a header 'Browse' and a '+ Add Members' button. Below the header is a search bar with the placeholder 'Type the member email to search for'. A table below the search bar shows a summary of members. The table has columns: Email Address, Name, Role, Added By, and Expires. There is one result listed: 310819106036@smartinternz.com, 310819106036@smar..., Administrator, -, and -. The page footer shows a search bar and system information like 28°C and 11:32 AM 14-11-2022.

Email Address	Name	Role	Added By	Expires
310819106036@smartinternz.com	310819106036@smar...	Administrator	-	-

12. This tab is used when you want to connect to some other platform and to integrate with other services.

The screenshot shows the 'Browse API Keys' page in the IBM Watson IoT Platform. The page has a dark sidebar with navigation icons. The main content area has a header 'Browse' and a '+ Generate API Key' button. Below the header is a search bar with the placeholder 'Type the app description to search for'. A table below the search bar shows a summary of API keys. The table has columns: Key, Description, Role, and Expires. There are 0 results listed. Below the table is a bee icon and the text 'There are no API Keys'. The page footer shows a search bar and system information like 28°C and 11:32 AM 14-11-2022.

Key	Description	Role	Expires
0 results			



**Team ID PNT2022TMID25071**

13. Click on the device tab and click on the add device button, then give the device type and device id and click next.

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.' The 'Device Type' field is populated with 'Nodemcu' and the 'Device ID' field is populated with '199795'. At the bottom right of the wizard, there are 'Cancel' and 'Next' buttons. The browser's address bar shows the URL 'jgry6x.internetofthings.ibmcloud.com/dashboard/devices/browse/add'. The Windows taskbar at the bottom shows the time as 11:33 AM on 14-11-2022.

IBM Watson IoT Platform

310819106036@smartinternz.com  
ID: jgry6x

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 Nodemcu

Device ID 199795

Cancel Next

Type here to search

28°C ENG 11:33 AM 14-11-2022



Team ID PNT2022TMID25071

14. This page to enter extra details and of the hardware.

The screenshot shows the 'Add Device' page in the IBM Watson IoT Platform. The progress bar indicates that the 'Device Information' step is currently active, while 'Identity', 'Security', and 'Summary' are completed. The page contains several input fields for device details:

Field	Input
Serial Number	Enter Serial Number
Manufacturer	Enter Manufacturer
Model	Enter Model
Device Class	Enter Device Class
Description	Enter Description
Firmware Version	Enter Firmware Version
Hardware Version	Enter Hardware Version
Descriptive Location	Enter Descriptive Location

Below the input fields is a button labeled 'Add Metadata' with a plus icon.

15. Clicking on next it goes to the summary of the device then click finish.

The screenshot shows the 'Add Device' page in the IBM Watson IoT Platform, now at the 'Summary' step. The progress bar shows that 'Identity', 'Device Information', and 'Security' are completed, and 'Summary' is the current step. The page displays the following information:

Verify that the following information is correct then select Finish

Field	Value
Device Type	MyDeviceType
Device ID	12345
Security Token	To be generated

Below the table is a button labeled 'View Metadata'. At the bottom right of the page are two buttons: 'Back' and 'Finish'.

Team ID PNT2022TMID25071

16. The device credentials will be displayed with all the details.

The screenshot shows the 'Device Drilldown - 12345' page in the IBM Watson IoT Platform. The left sidebar contains a navigation menu with options: Device Credentials, Connection Information, Recent Events, State, Device Information, Metadata, Diagnostics, Connection Logs, and Device Actions. The main content area is titled 'Device Credentials' and includes a description: '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, a table displays the following information:

Organization ID	igry6x
Device Type	MyDeviceType
Device ID	12345
Authentication Method	use-token-auth
Authentication Token	M3f8xtfOu34@z0C@b

A warning icon and text at the bottom state: 'Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token.'

17. Clicking on the device tab we can now see the added device. Clicking on it will display the other details.

The screenshot shows the 'Browse Devices' page in the IBM Watson IoT Platform. The page has tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. Below the tabs, there are buttons for 'All Devices' and 'Diagnose'. A descriptive text states: '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.' Below this, there is a search bar labeled 'Search by Device ID' and a 'Device Simulator' toggle switch. The main content is a table with the following data:

	Device ID	Status	Device Type	Class ID	Date Added
>	12345	Disconnected	MyDeviceType	Device	14 Nov 2022 11:37

At the bottom of the table, it says 'Items per page 50' and '1-1 of 1 item'. The page also shows '1 of 1 page' and navigation arrows.

Team ID PNT2022TMID25071

IBM Watson IoT Platform

Search by Device ID

Device ID	Status	Device Type	Class ID	Date Added
199795	Disconnected	NodeMCU	Device	Nov 13, 2022 10:39 PM

Identity | Device Information | Recent Events | State | Logs

Device ID: 199795  
Device Type: NodeMCU  
Date Added: Nov 13, 2022 10:39 PM  
Added By: 310819106036@smartinternz.com  
Connection Status: Disconnected

Items per page 50 | 1-1 of 1 item

1 of 1 page

18. The Boards will display card for the project.

IBM Watson IoT Platform

Your boards | Public boards

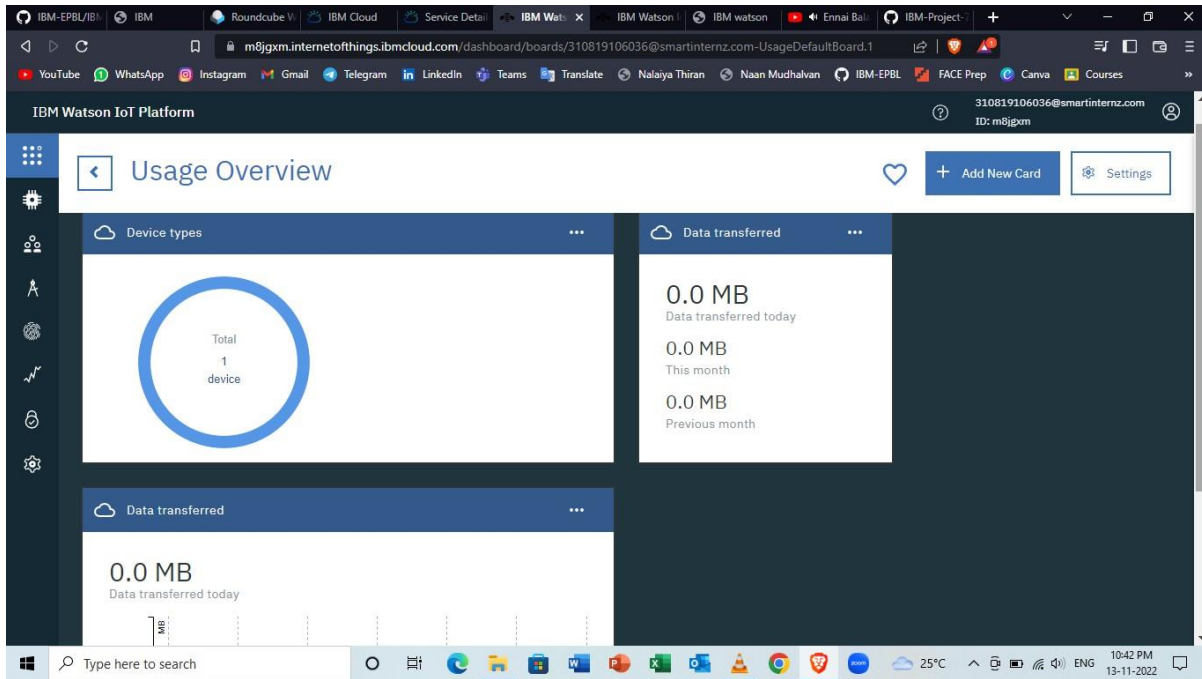
Create New Board

USAGE OVERVIEW  
3 Cards  
Owned by you

RISK AND SECURITY OVERVIEW  
4 Cards  
Owned by you

Boards shared with you

**Team ID PNT2022TMID25071**



## **Result:**

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