

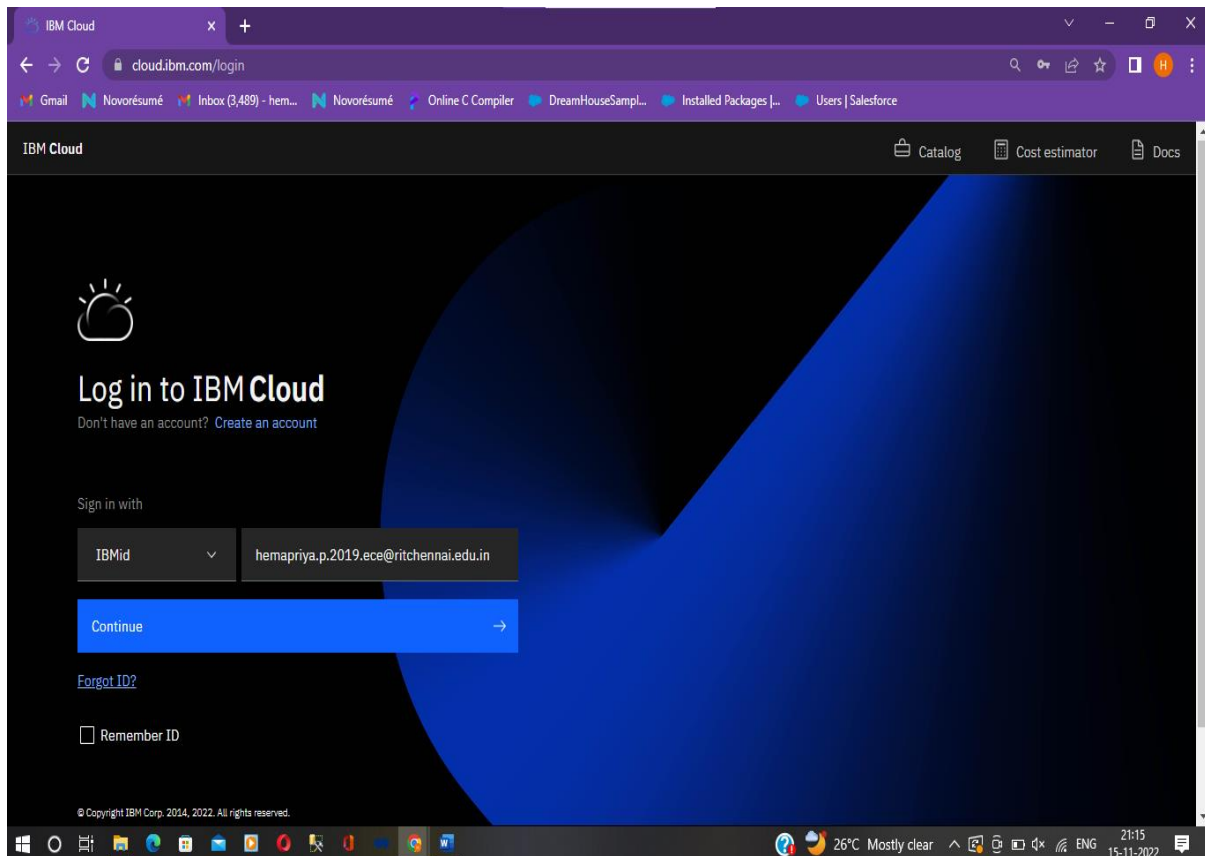
# IBM WATSON IOT PLATFORM AND DEVICES

Date	10 November 2022
Team ID	PNT2022TMID26475
Project Name	Project - IoT Based Safety Gadget for Child Safety Monitoring and Notification.

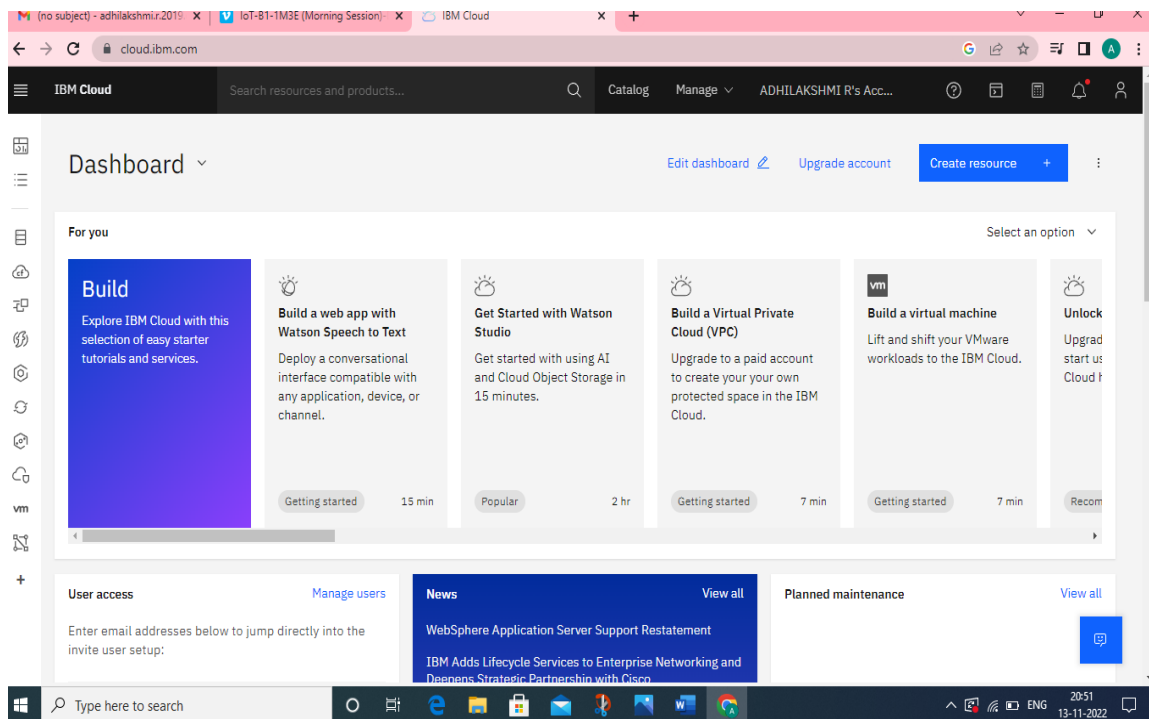
**AIM :** To create the IBM Watson IoT platform and device

## **STEPS :**

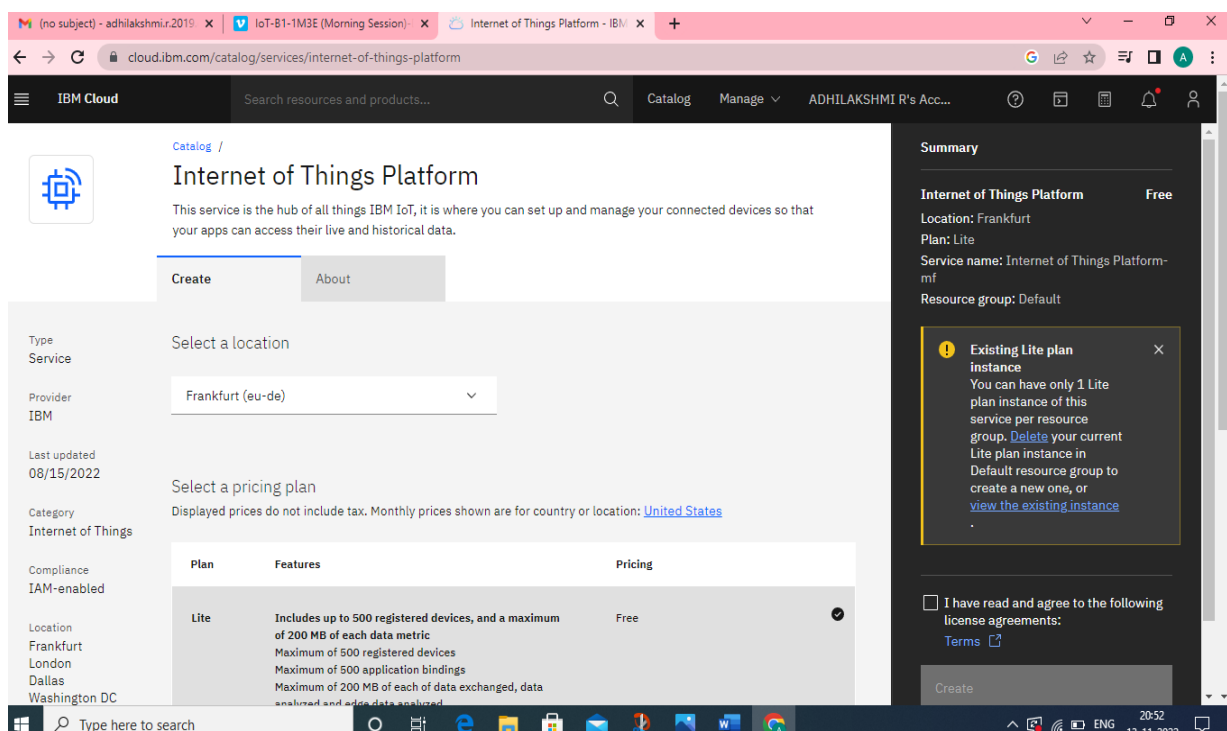
1. Firstly create an IBM cloud account with IBMid and password



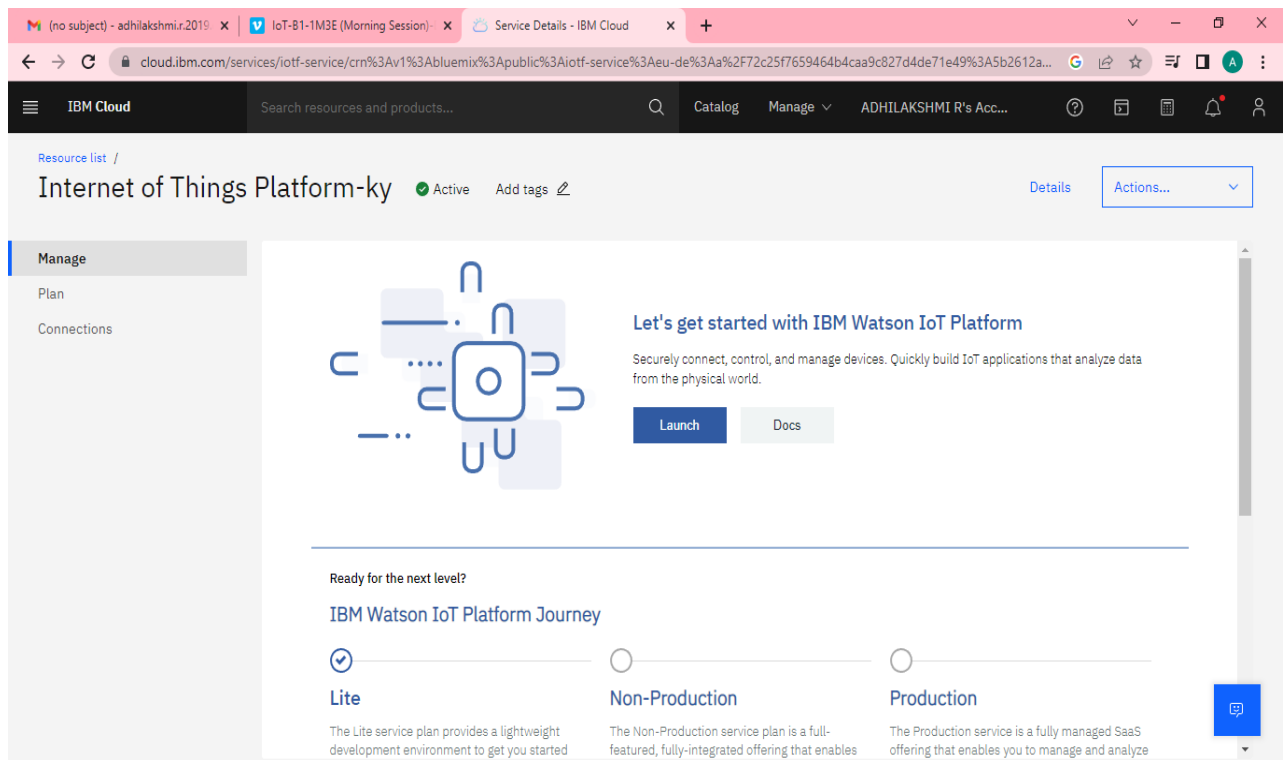
## 2. Home page of IBM cloud



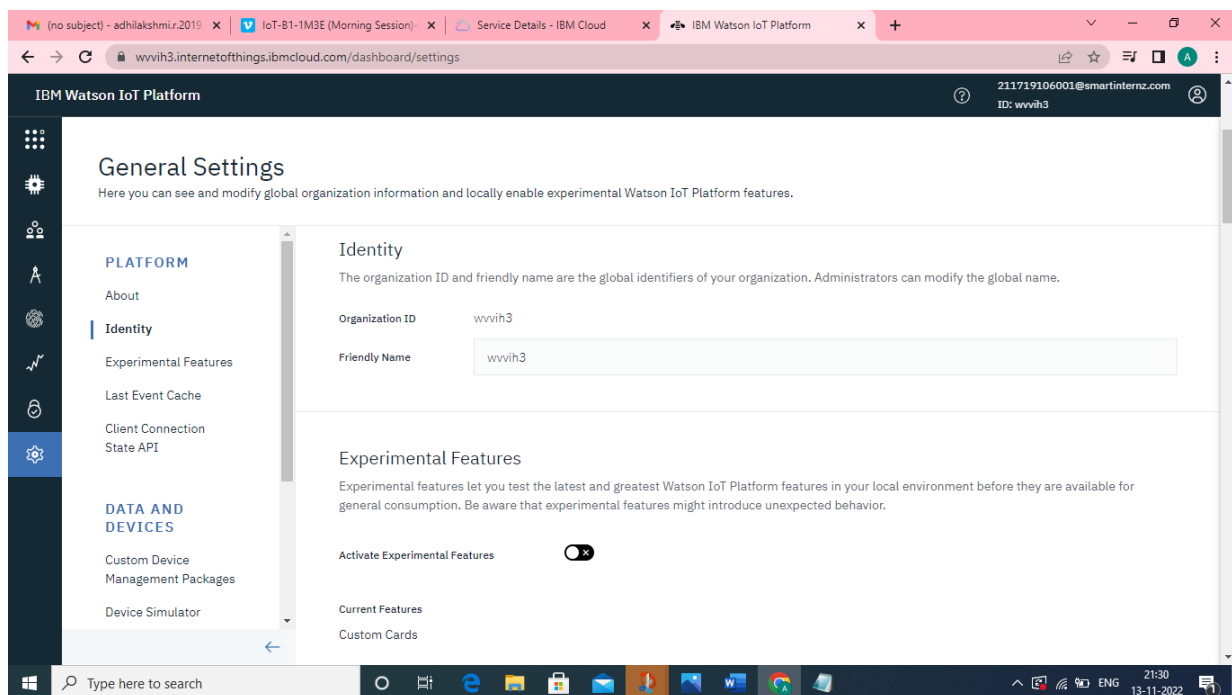
## 3. Click on the catalog



## 4. Click on IoT in the category mentioned



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



6. 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 'Add Type' form in the IBM Watson IoT Platform. The form is titled 'Add Type' and has a progress bar with two steps: 'Identity' (selected) and 'Device Information'. Below the progress bar, there is a text box for 'Name' and a text box for 'Description'. The 'Name' text box has a placeholder 'Enter Name' and a note: '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.' The 'Description' text box has a placeholder 'Enter Description'. There are also radio buttons for 'Device' and 'Gateway'.

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

The screenshot shows the 'Add Device' form in the IBM Watson IoT Platform. The form is titled 'Add Device' and has a progress bar with four steps: 'Identity' (selected), 'Device Information', 'Security', and 'Summary'. Below the progress bar, there is a text box for 'Serial Number' and a text box for 'Manufacturer'. The 'Serial Number' text box has a placeholder 'Enter Serial Number'. The 'Manufacturer' text box has a placeholder 'Enter Manufacturer'. There are also text boxes for 'Model', 'Description', 'Hardware Version', 'Device Class', 'Firmware Version', and 'Descriptive Location'. The 'Model' text box has a placeholder 'Enter Model'. The 'Description' text box has a placeholder 'Enter Description'. The 'Hardware Version' text box has a placeholder 'Enter Hardware Version'. The 'Device Class' text box has a placeholder 'Enter Device Class'. The 'Firmware Version' text box has a placeholder 'Enter Firmware Version'. The 'Descriptive Location' text box has a placeholder 'Enter Descriptive Location'. There is an 'Add Metadata' button at the bottom.

8. Clicking next it goes to the security where we do authentication token id

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The progress bar indicates four steps: Identity (completed), Device Information (current), Security, and Summary. The 'Device Information' step contains two columns of input fields. The left column includes 'Serial Number', 'Model', 'Description', and 'Hardware Version'. The right column includes 'Manufacturer', 'Device Class', 'Firmware Version', and 'Descriptive Location'. Each field has a placeholder text 'Enter [field name]'. Below the fields is a blue button labeled 'Add Metadata +'. The top navigation bar shows 'Browse', 'Action', 'Device Types', and 'Interfaces'. The user's profile information '211719106001@smarterintenz.com' and ID 'wwih3' are visible in the top right.

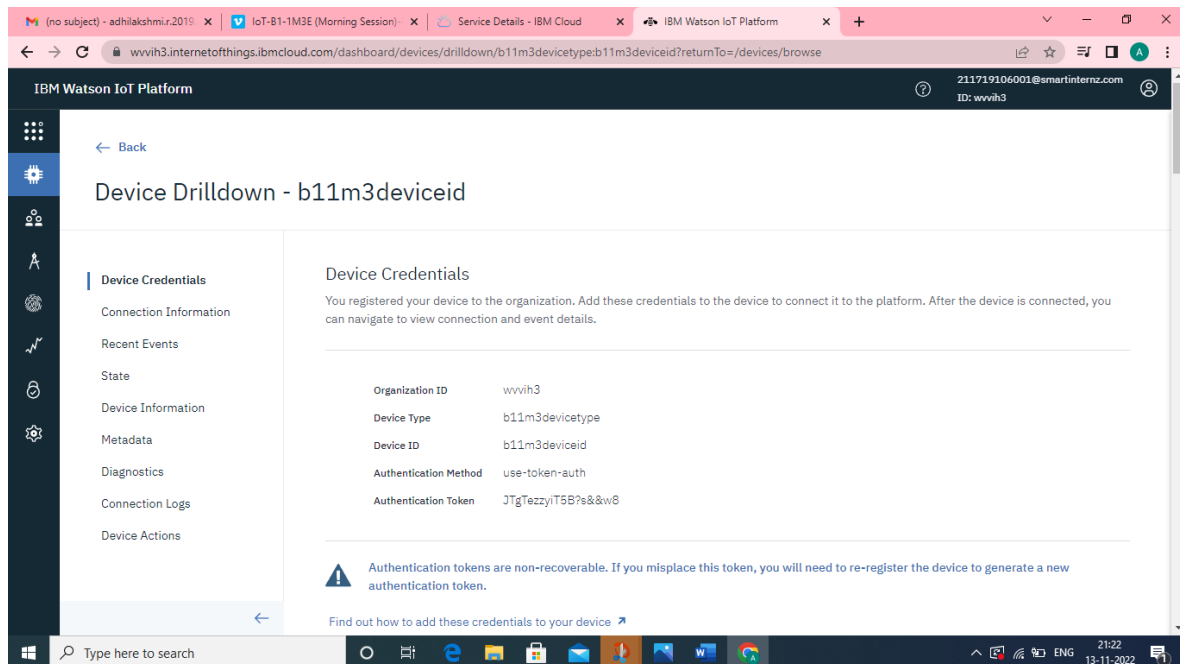
Field	Placeholder
Serial Number	Enter Serial Number
Model	Enter Model
Description	Enter Description
Hardware Version	Enter Hardware Version
Manufacturer	Enter Manufacturer
Device Class	Enter Device Class
Firmware Version	Enter Firmware Version
Descriptive Location	Enter Descriptive Location

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

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform, now at the 'Summary' step. The progress bar shows all four steps (Identity, Device Information, Security, and Summary) as completed. The 'Summary' step displays the following information: 'Device Type' is 'b11m3devicetype', 'Device ID' is 'b11m3deviceid', and 'Security Token' is 'To be generated'. There is a blue button labeled 'View Metadata' below the device information. At the bottom right, there are two buttons: 'Back' and 'Finish'. The top navigation bar and user profile information remain the same as in the previous screenshot.

Field	Value
Device Type	b11m3devicetype
Device ID	b11m3deviceid
Security Token	To be generated

**10.** the device credentials will be displayed with all the details



**11.** Safe the details of the device as the authentication tokens are nonrecoverable and if misplaced then we have to create a new one

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

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

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added
>	<input type="checkbox"/> b11m3deviceid	Disconnected	b11m3devicetype	Device	Nov 13, 2022 9:21 PM

Items per page 50 | 1-1 of 1 item

1 of 1 page

13.

IBM Watson IoT Platform

Browse Action Device Types Interfaces

Add Device

Search by Device ID

Device Simulator

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added	
▼	<input checked="" type="checkbox"/> b11m3deviceid	Disconnected	b11m3devicetype	Device	Nov 13, 2022 9:21 PM	→ ...

Identity Device Information Recent Events State Logs

Device ID b11m3deviceid

Device Type b11m3devicetype

Date Added Nov 13, 2022 9:21 PM

Added By 211719106001@smartinternz.com

Connection Status Disconnected

Items per page 50 | 1-1 of 1 item

1 of 1 page

**RESULT:** An IBM Watson cloud for IoT and a device is created