

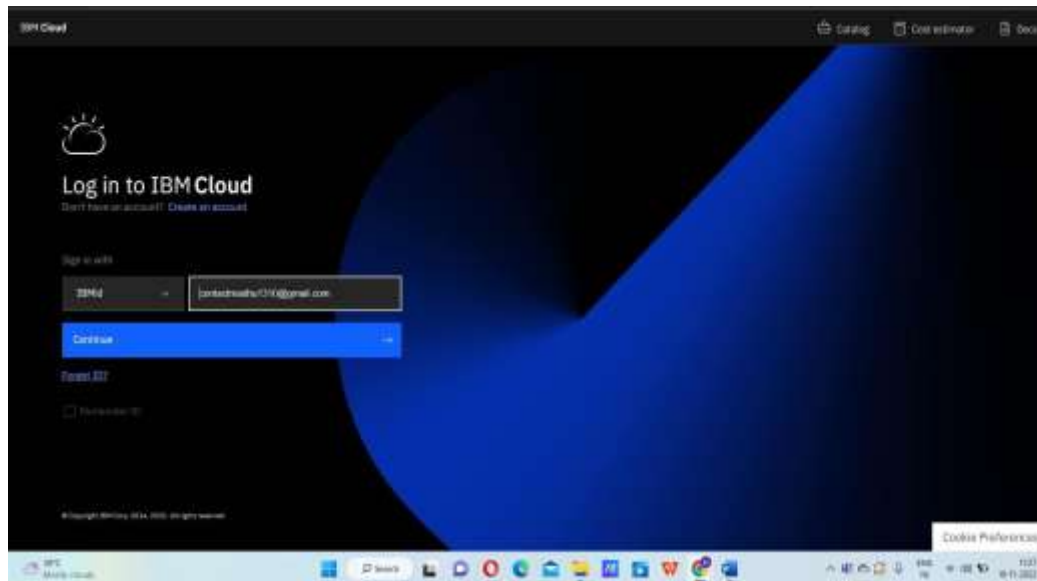
CREATE IBM WATSON IOT PLATFORM AND DEVICE

AIM:

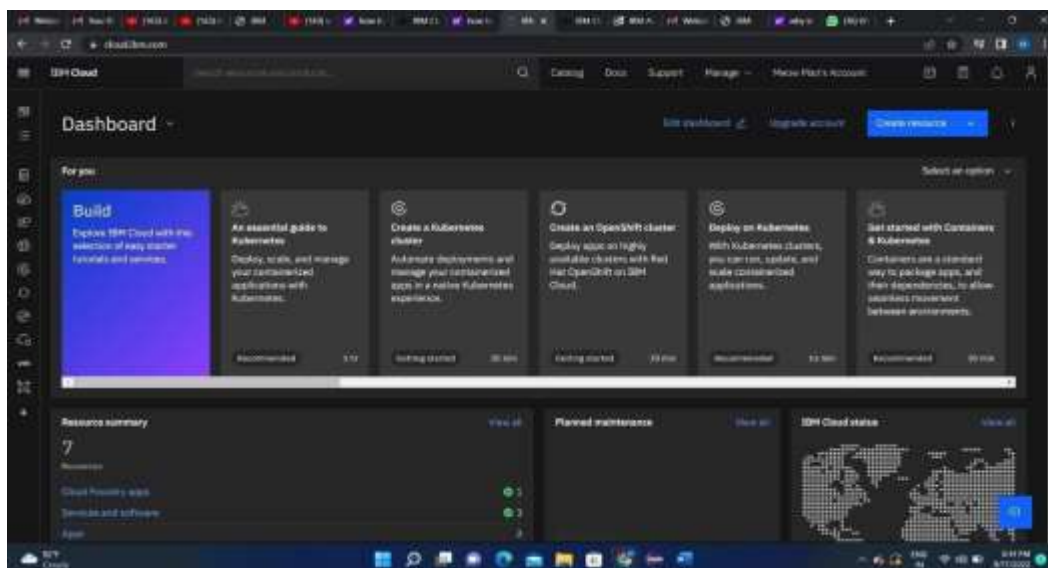
To create the IBM Watson IoT platform and device

STEPS:

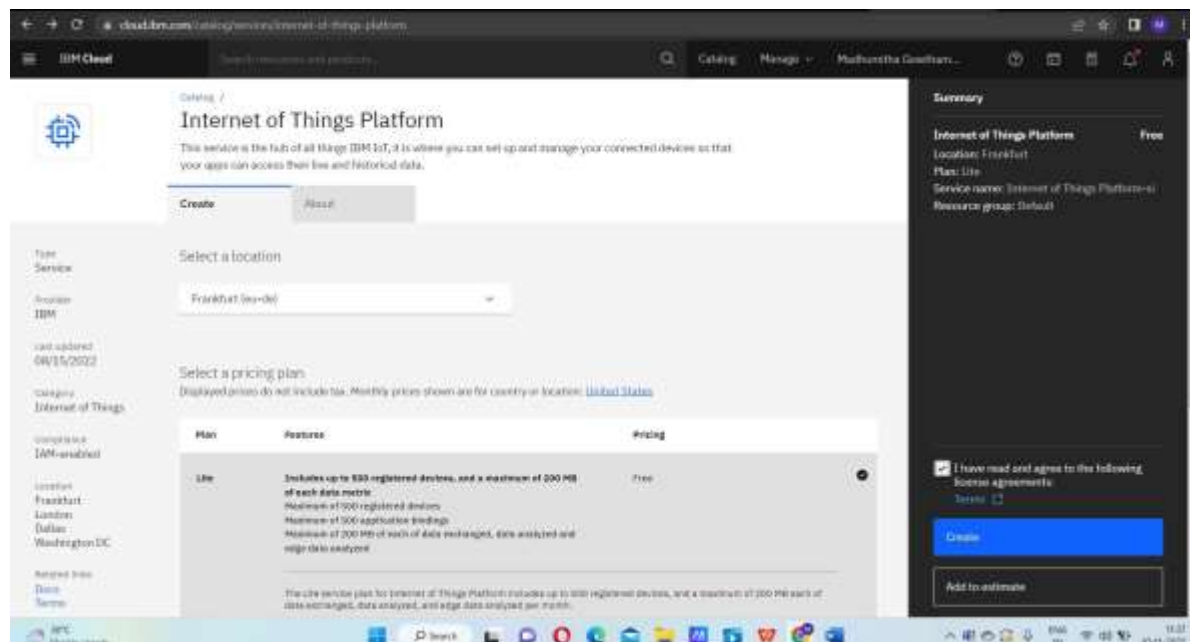
1. Firstly create an IBM cloud account with IBMid and password:



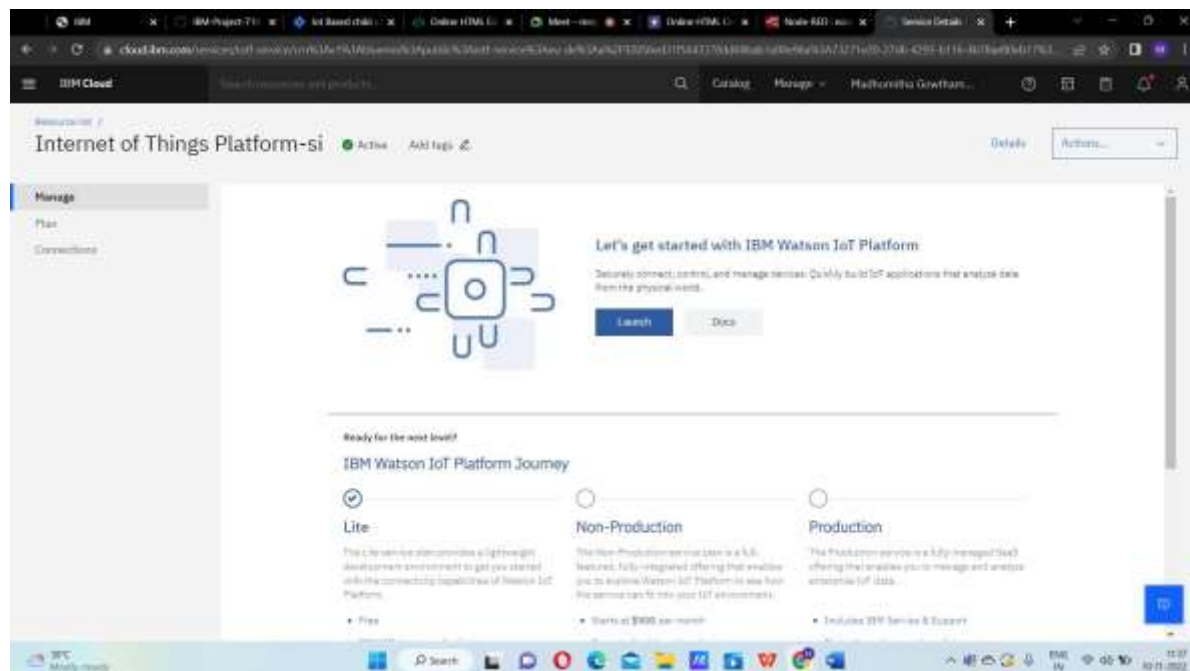
2. Home page of IBM cloud :



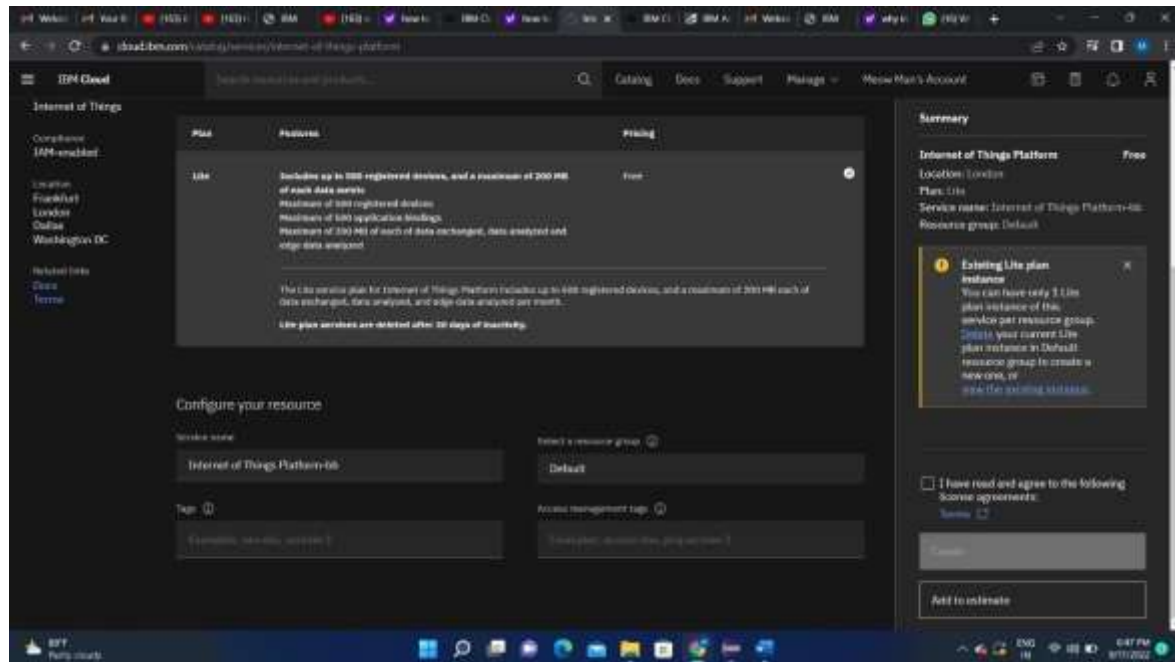
3. Click on the catalog on the top and select internet of things :



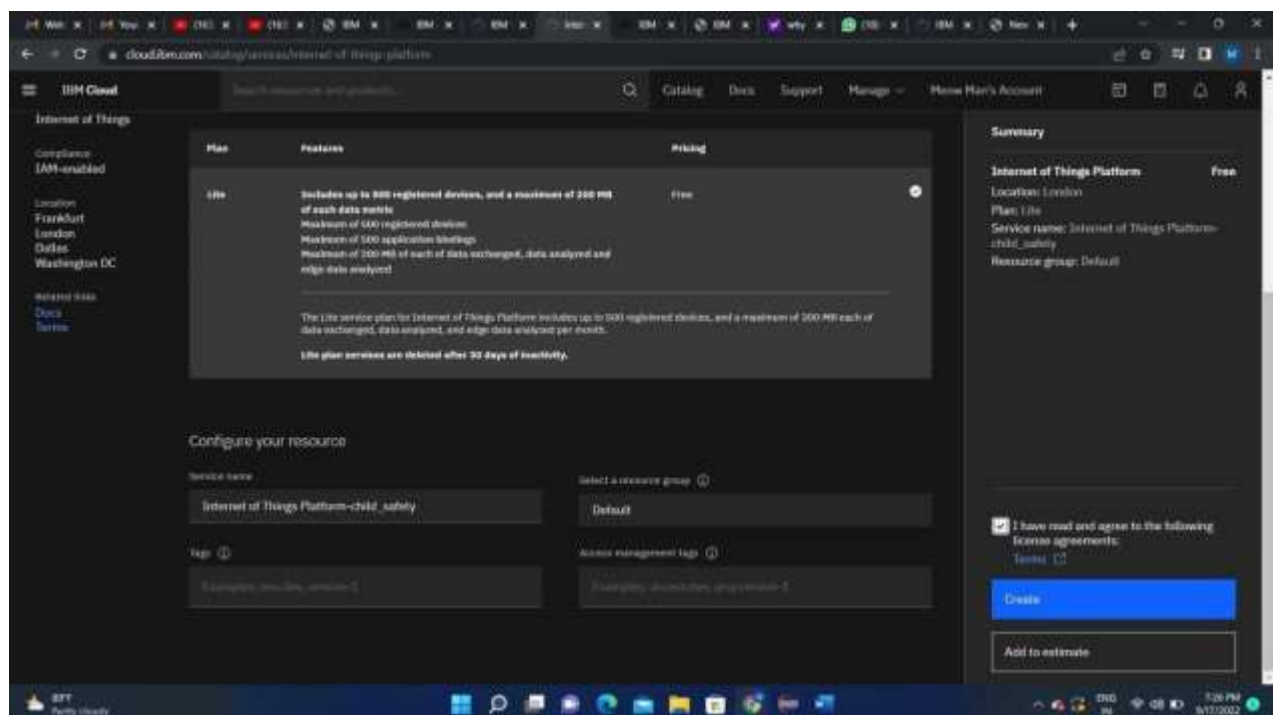
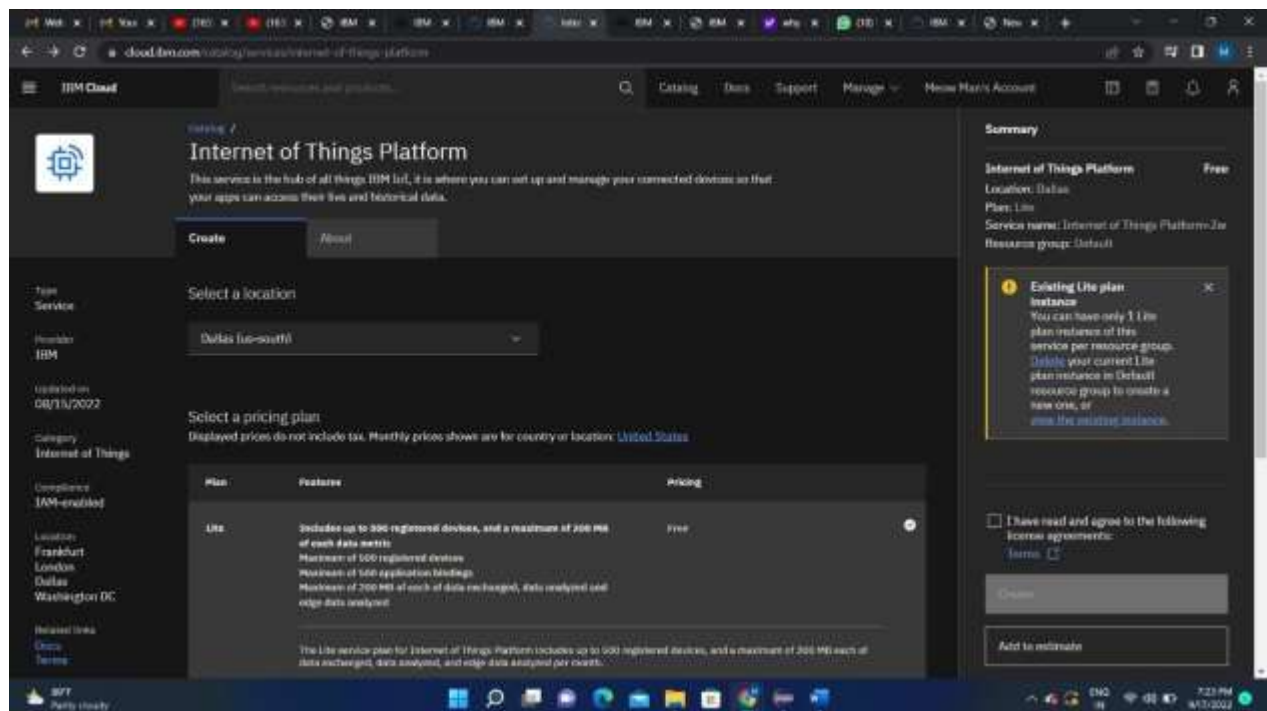
4. Click on IoT in the category mentioned :



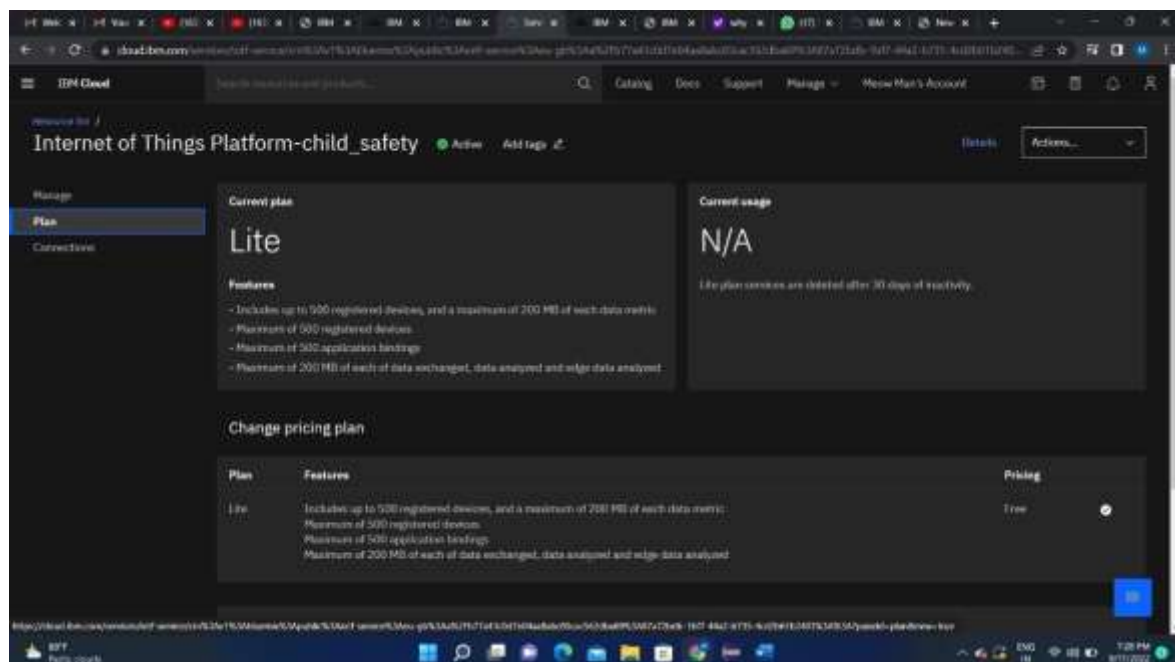
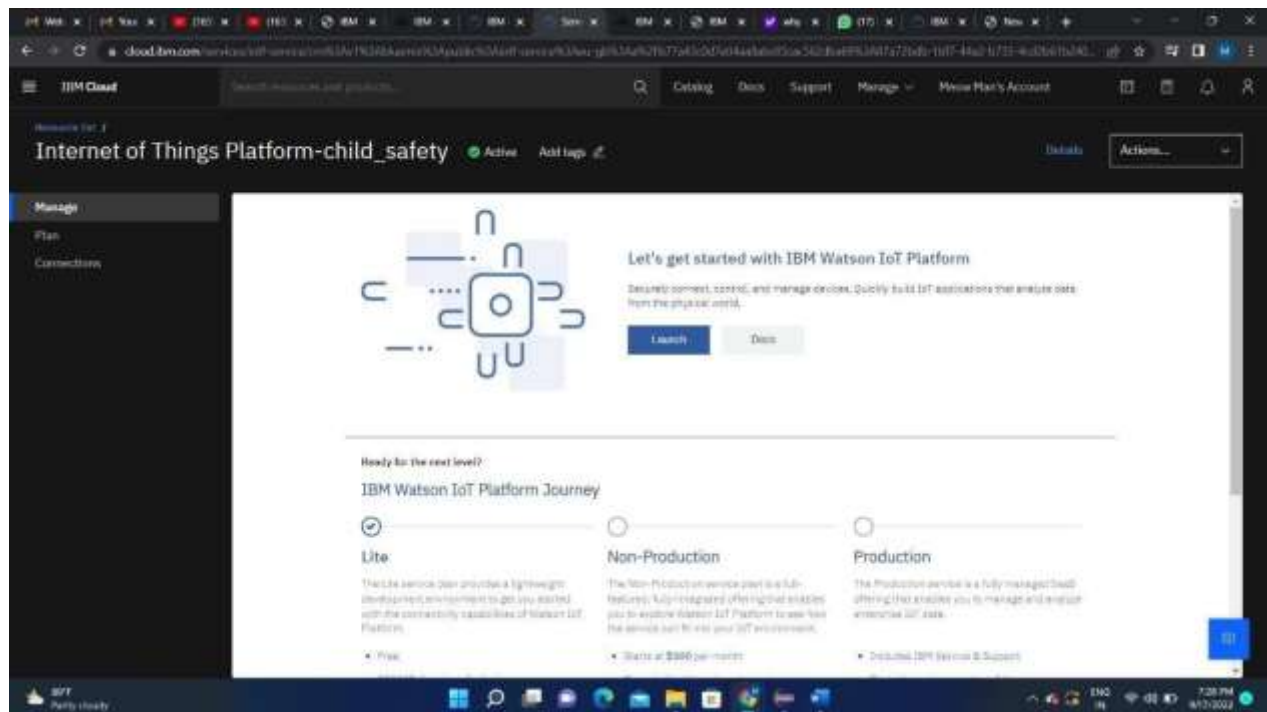
5. If already a lite is present delete it else u can't create another :



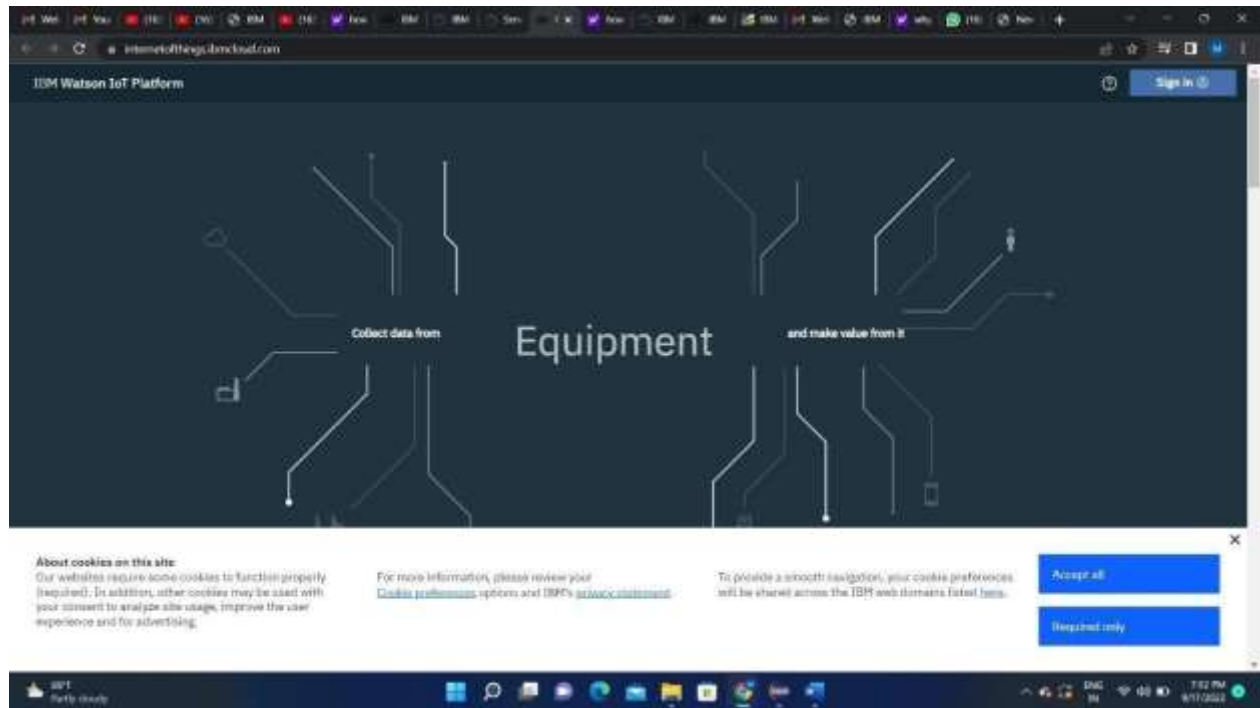
6. Enter the location and in the configure your resource type the service name and choose the plan, tick the agree with agreements and then click on create:



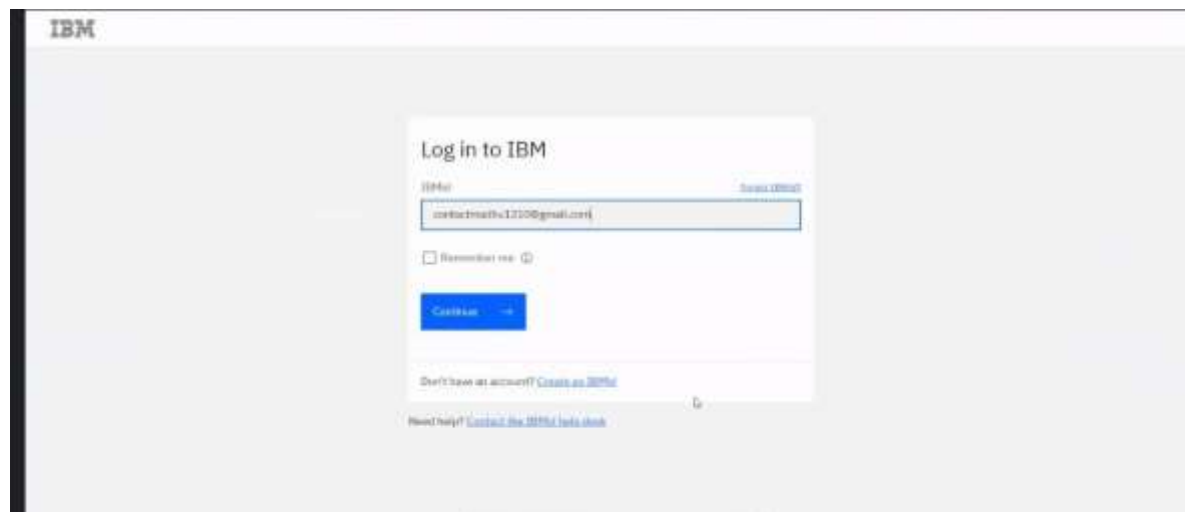
7. Internet of Things Platform Child_safety will be created, where there are different options like manage, plan, and connection (manage is for launch, Plan gives us the idea about the payment package and its upgrades, and lastly the connection is for to connect IoT with other services):



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



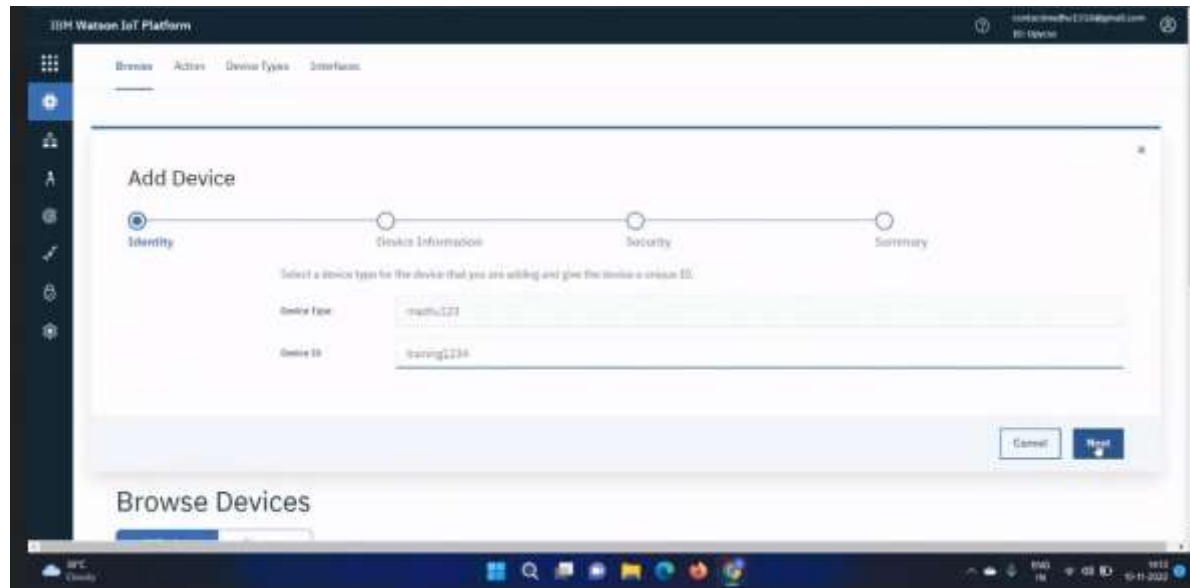
9. Enter the details to sign in to the Watson Cloud to create a device :



10. Once logged in the name will be displayed and it goes back to the first page :



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



12. This page to enter extra details and of the hardware :

The screenshot shows the 'Add Device' page in the IBM Watson IoT Platform. The page is titled 'Add Device' and has a progress bar with four steps: Identity, Device Information (current), Security, and Summary. Below the progress bar, there is a text box stating: 'You can modify the default device information and enter more information about the device for identification purposes.' The form contains several input fields: 'Serial Number', 'Model', 'Description', 'Hardware Version', 'Manufacturer', 'Device Class', 'Firmware Version', and 'Descriptive Location'. Each field has a placeholder text 'Enter [field name]'. There is an 'Add Metadata' button with a plus icon. At the bottom right, there are 'Back' and 'Next' buttons.

IBM Watson IoT Platform

contactmohd123@gmail.com
ID: 123456

Browse Action Device Types Interfaces

Add Device

Identity Device Information Security Summary

You can modify the default device information and enter more information about the device for identification purposes.

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

Add Metadata

Back Next

Browse Devices

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

The screenshot shows the 'Add Device' page in the IBM Watson IoT Platform, specifically the 'Security' step. The progress bar shows 'Identity' and 'Device Information' as completed steps, and 'Security' as the current step. The page is titled 'Add Device'. Below the progress bar, there is a text box stating: 'There are two options for generating a device authentication token: Auto-generated authentication token (default)'. The 'Auto-generated authentication token (default)' section explains: 'Allow the service to generate an authentication token for you. Tokens are 32 characters and contain a mix of alphanumeric characters and symbols. The token is returned to you at the end of the device registration process.' Below this, there is a text input field for 'Authentication Token' with the placeholder 'Enter an internal token'. The 'Self-provided authentication token' section explains: 'Provide your own authentication token for this device. The token must be between 8 and 36 characters and contain a mix of lowercase and uppercase letters, numbers, and symbols, which can include hyphens, underscores, and periods. Do not use repeated characters, dictionary words, user names, or other predefined sequences.' At the bottom, there is a note: 'Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored. Authentication tokens are encrypted before we store them.'

IBM Watson IoT Platform

contactmohd123@gmail.com
ID: 123456

Browse Action Device Types Interfaces

Add Device

Identity Device Information Security Summary

There are two options for generating a device authentication token:

Auto-generated authentication token (default)

Allow the service to generate an authentication token for you. Tokens are 32 characters and contain a mix of alphanumeric characters and symbols. The token is returned to you at the end of the device registration process.

Self-provided authentication token

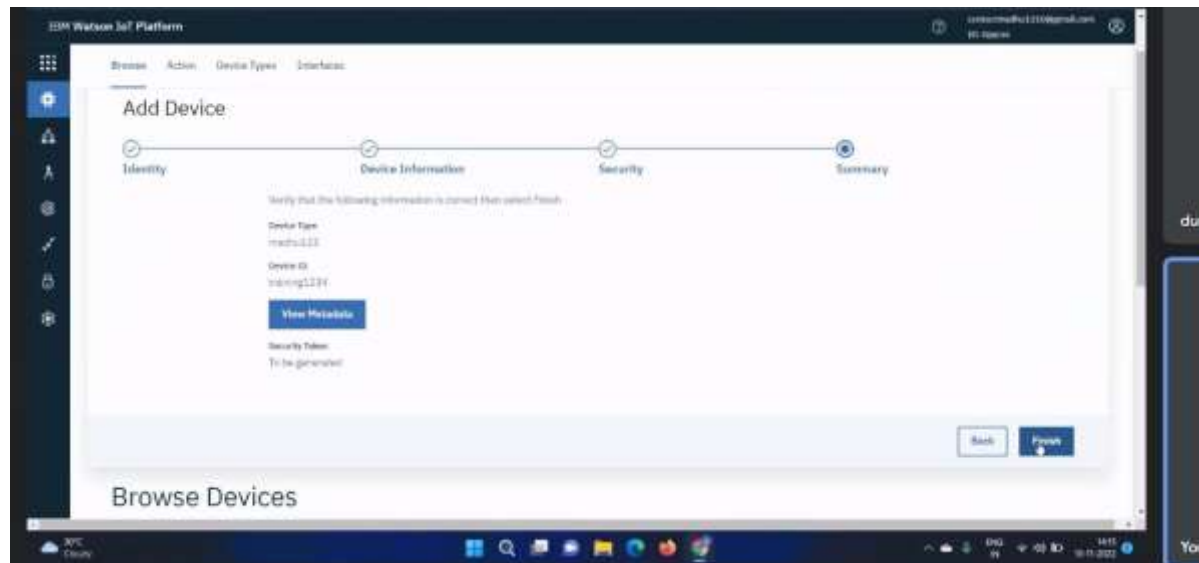
Provide your own authentication token for this device. The token must be between 8 and 36 characters and contain a mix of lowercase and uppercase letters, numbers, and symbols, which can include hyphens, underscores, and periods. Do not use repeated characters, dictionary words, user names, or other predefined sequences.

Authentication Token: Enter an internal token

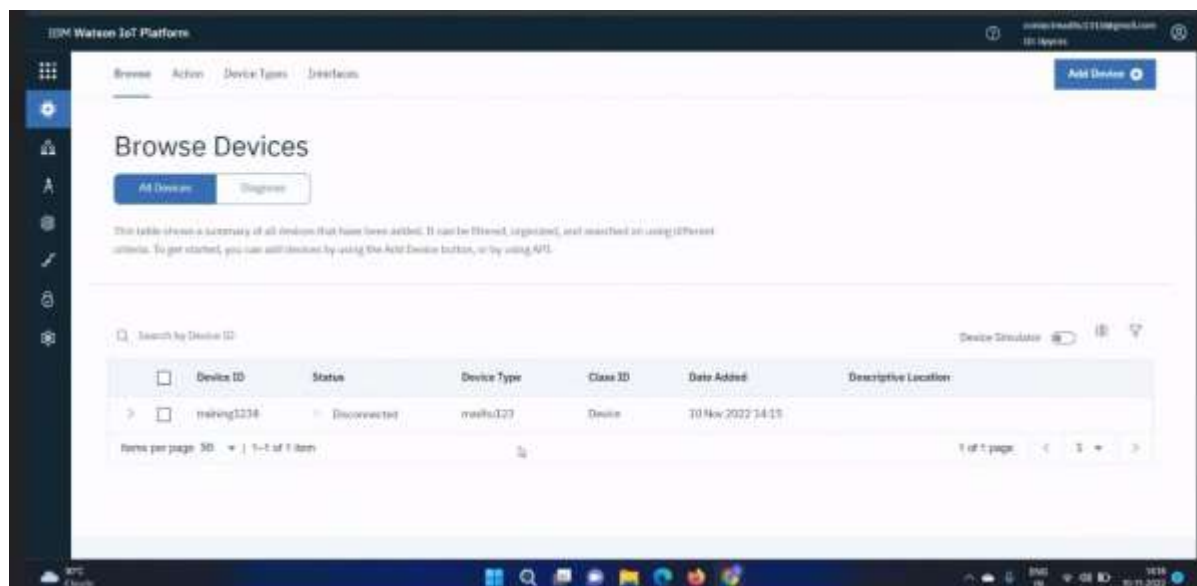
Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored.

Authentication tokens are encrypted before we store them.

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



15. Save the details of the device as the authentication tokens are non-recoverable and if misplaced then we have to create a new one:



RESULT:

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

