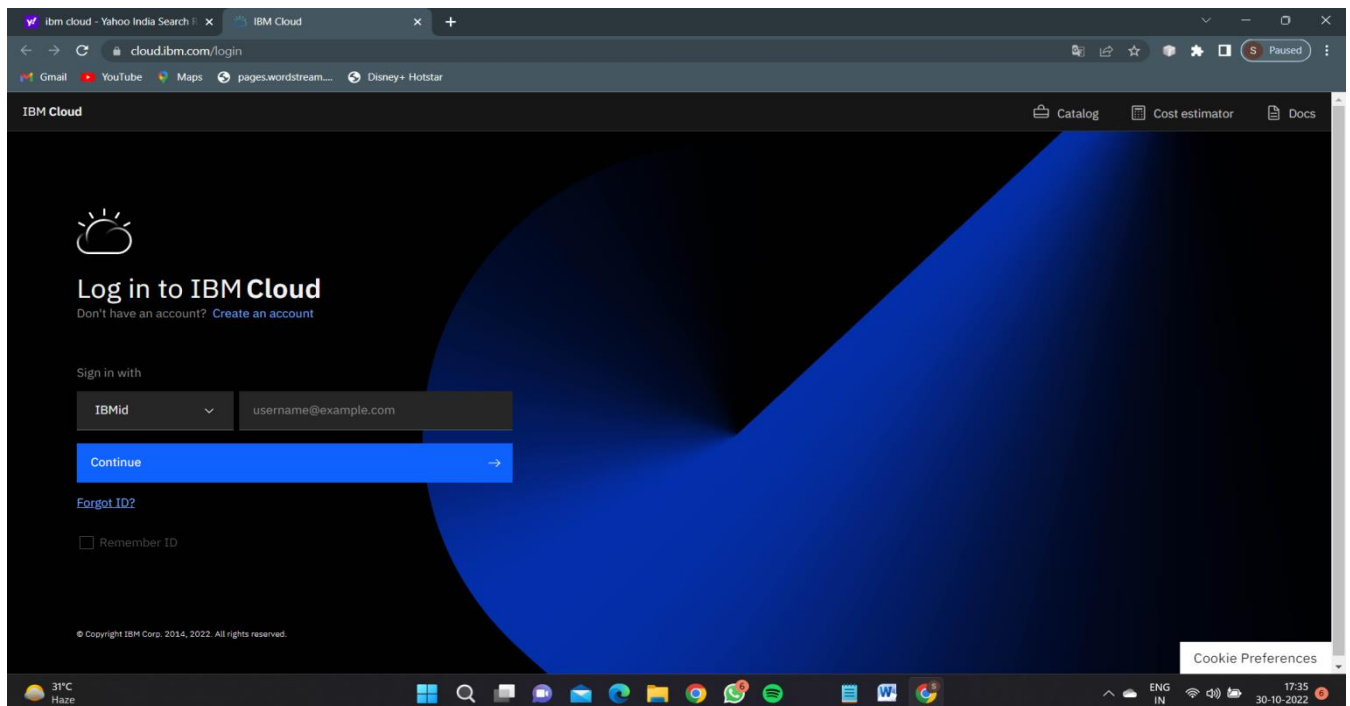


CREATE IBM WATSON IOT PLATFORM AND DEVICE

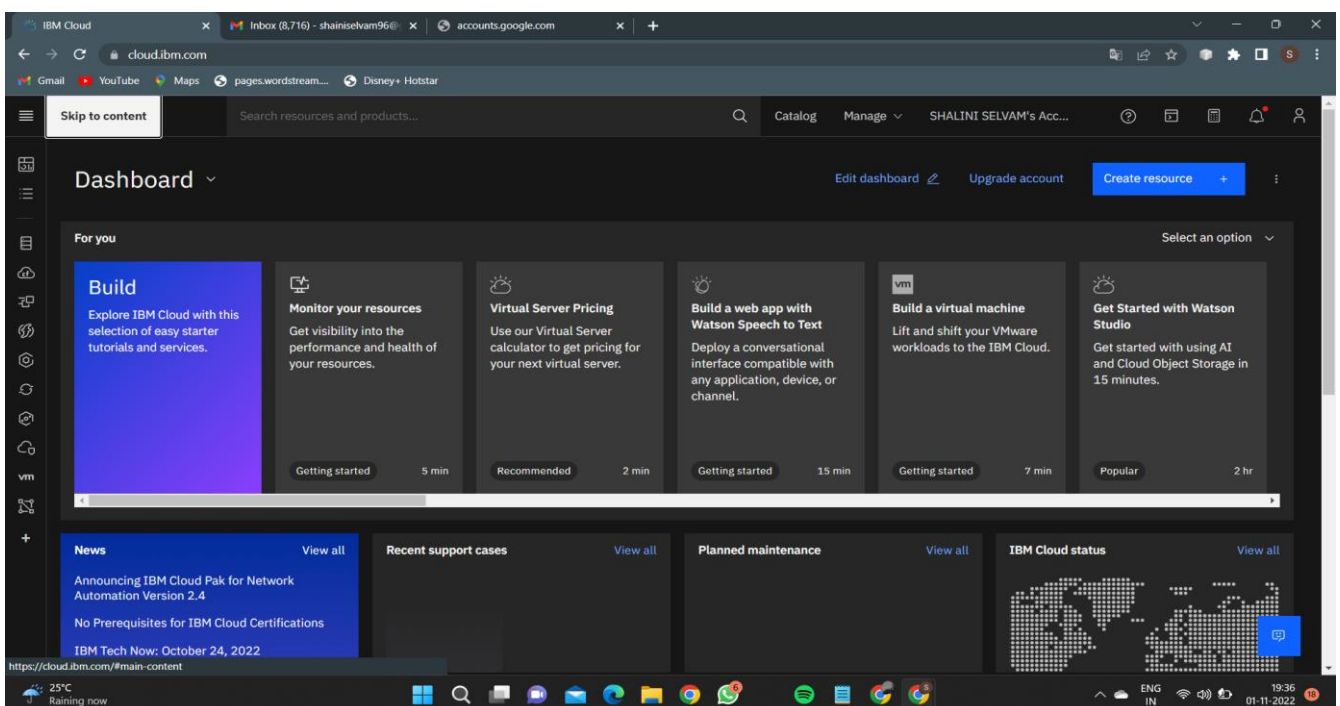
Date	26-10-2022
Project Name	Project - IOT based safety gadget for child safety monitoring and notification
Maximum Marks	4 Marks

STEPS:

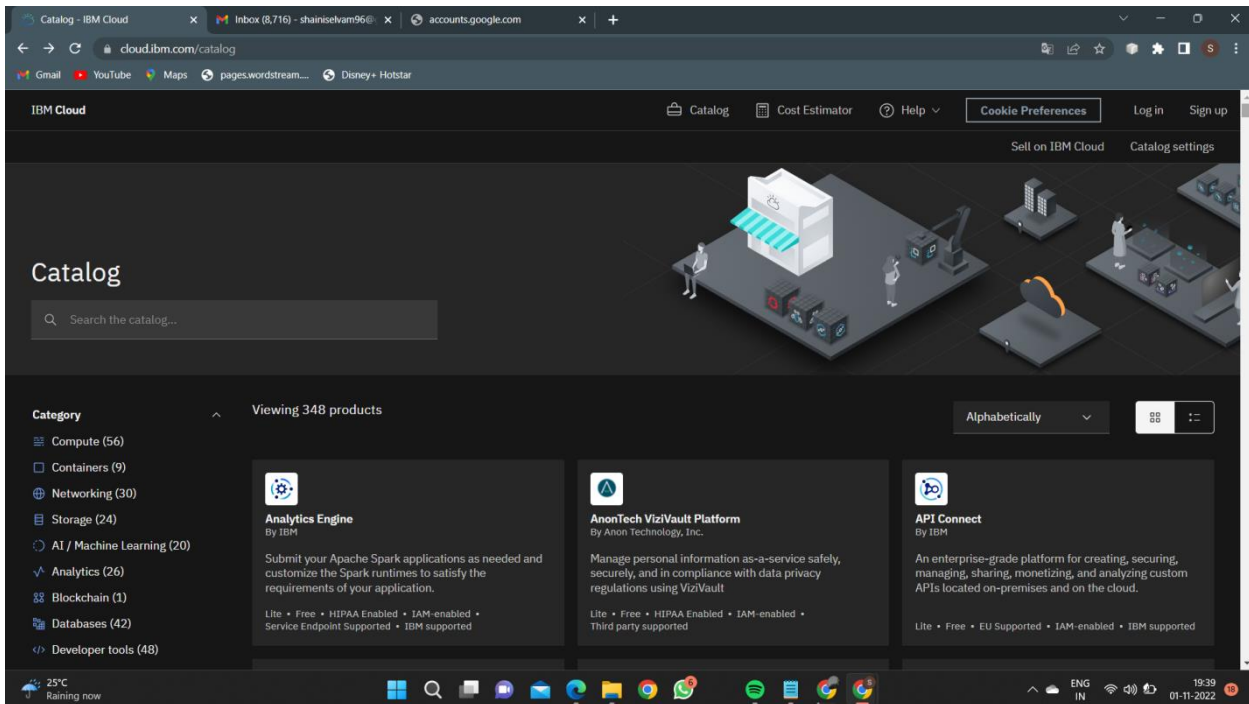
1. First create an IBM cloud account with IBMid and password



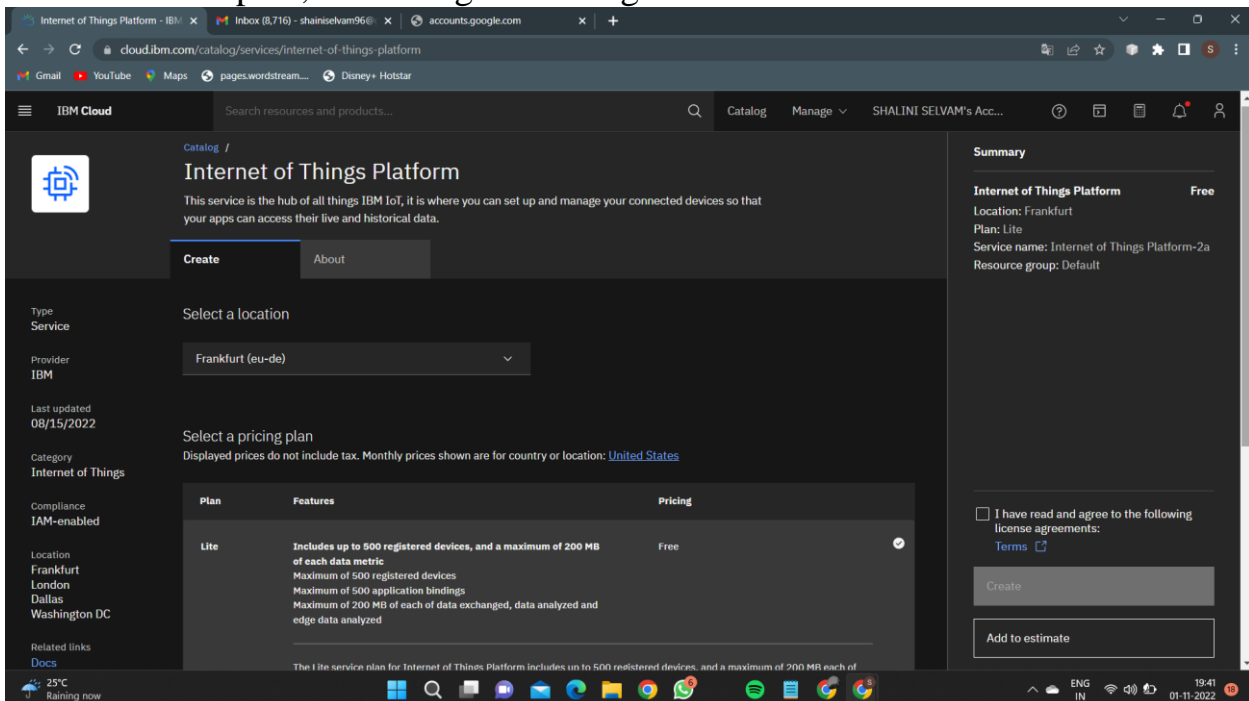
2. Home page of IBM cloud



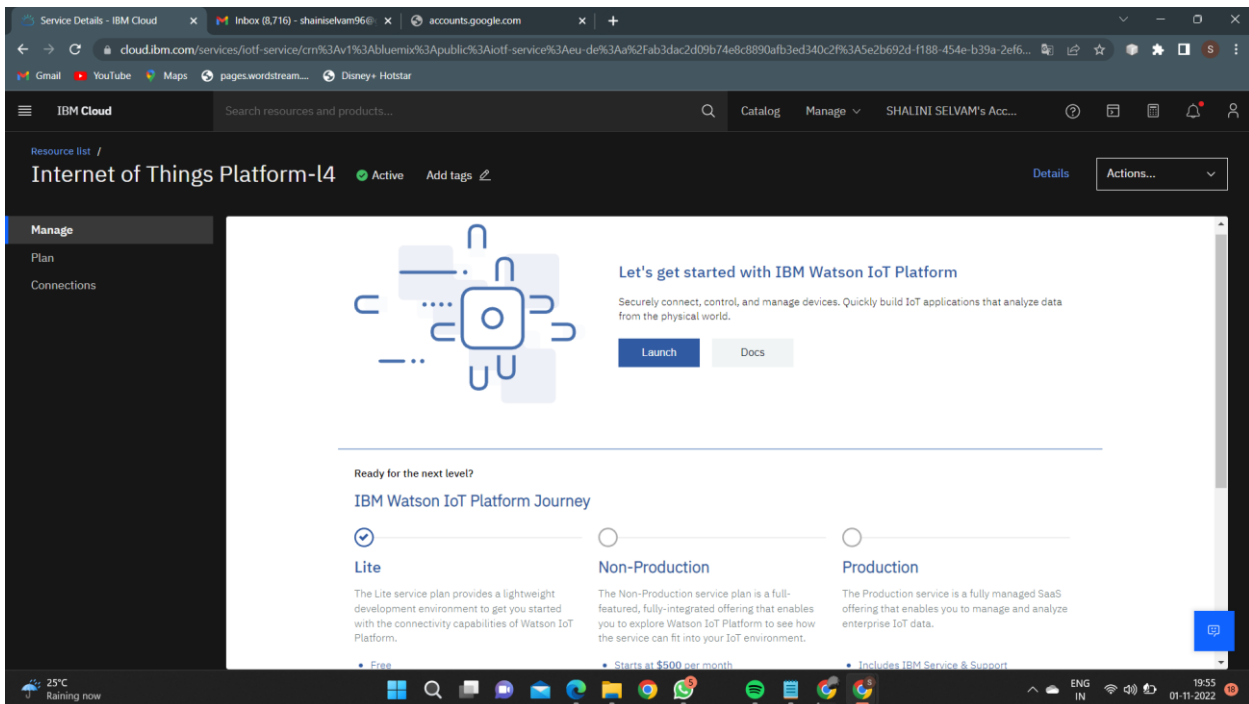
3. Click on the catalog on the top. Search for INTERNET OF THINGS PLATFORM



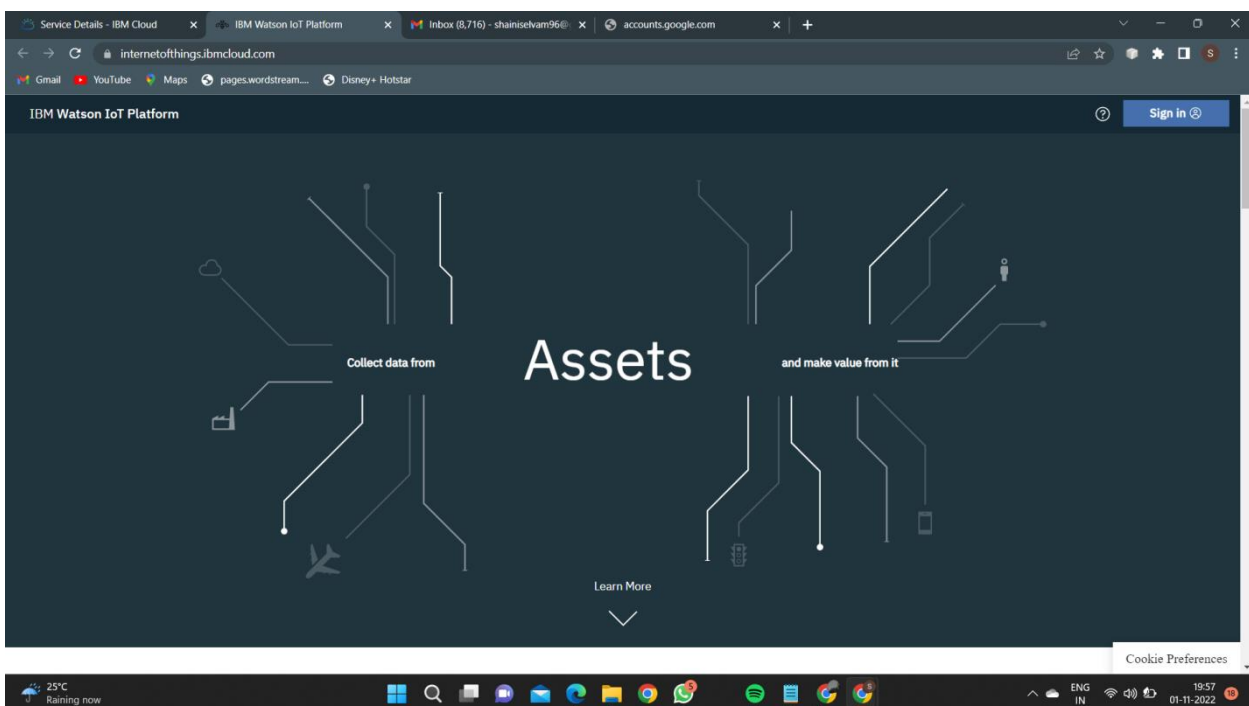
4. Enter the location and in the configure your resource type the service name and choose the plan, tick the agree with agreements and then click on create



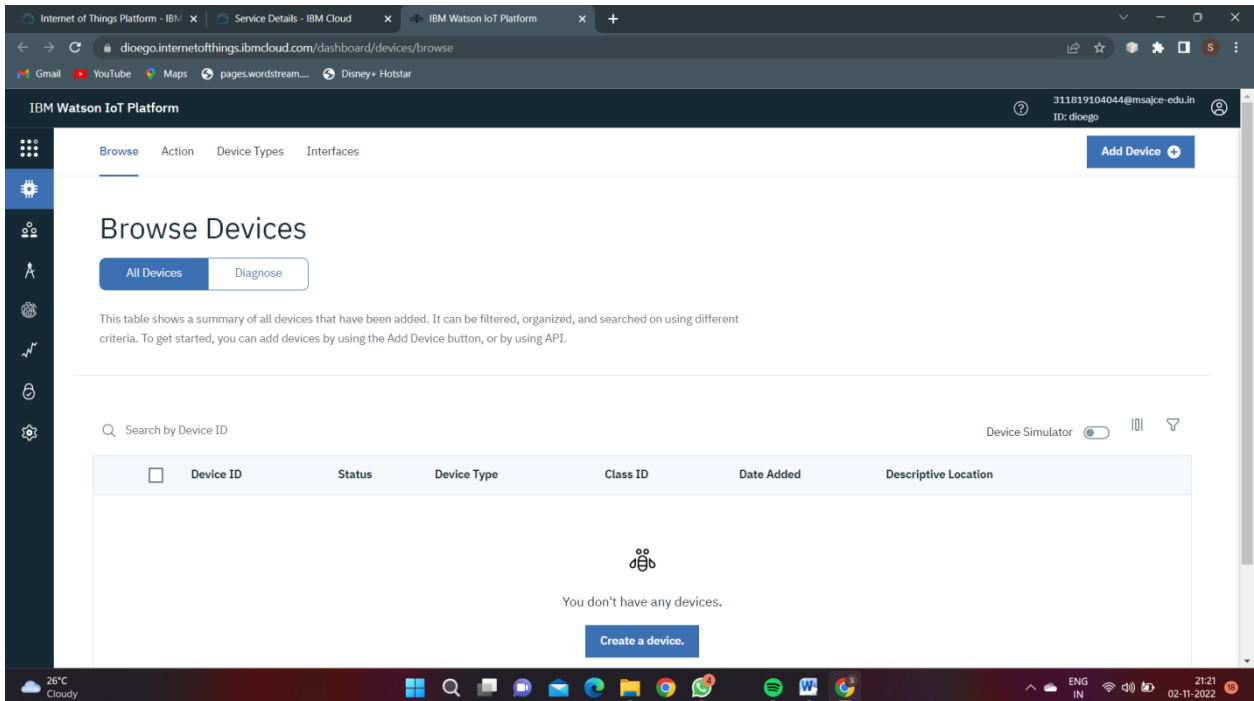
5. Internet of Things Platform Child_safety will be created, where there are different options like manage, plan, and connection (manage is for launch, Plan gives us the idea about the payment package and its upgrades, and lastly the connection is for to connect IoT with other services). Click on launch.



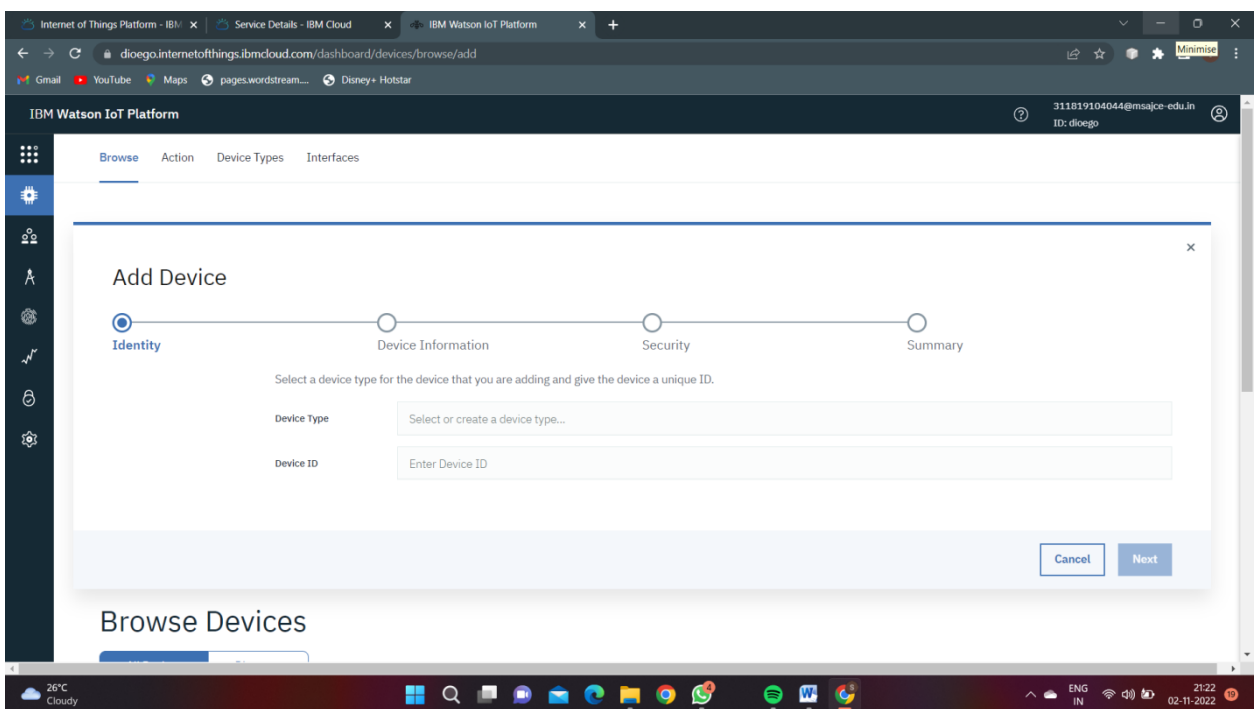
6. Now you need to sign in. Enter the details to sign in to the Watson Cloud to create a device.



7. And again clicking 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. Click on the device tab and click on the add device button, then give the device type and device id and click next



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

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The progress bar indicates that the 'Device Information' step is currently active, following 'Identity' and preceding 'Security' and 'Summary'. The 'Identity' step is marked with a checkmark, while 'Security' and 'Summary' are marked with empty circles. The 'Device Information' section contains several input fields for device metadata:

- Serial Number:
- Manufacturer:
- Model:
- Device Class:
- Description:
- Firmware Version:
- Hardware Version:
- Descriptive Location:

At the bottom left of the form, there is a button labeled 'Add Metadata' with a plus icon. The top of the page shows the user's profile and ID: 311819104044@msajce-edu.in, ID: dioego. The bottom of the screen displays a Windows taskbar with the date 02-11-2022 and time 21:29.

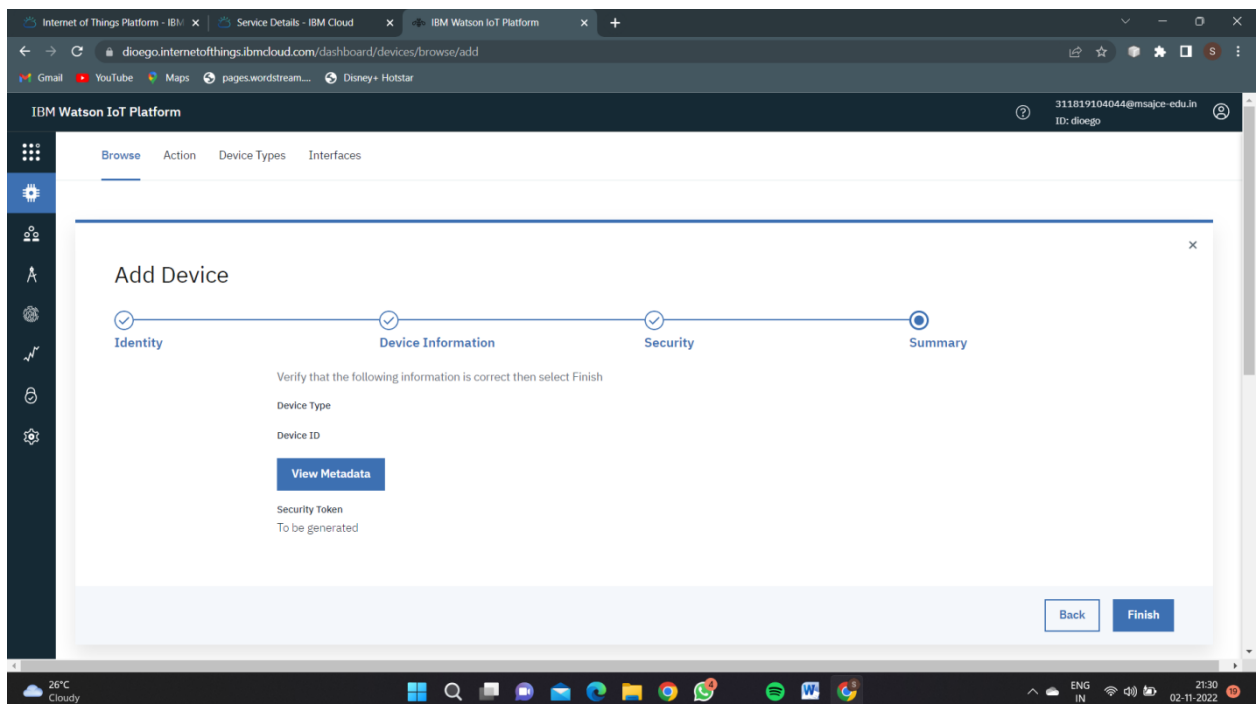
10. Clicking next it goes to the security where we do authentication token id.

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform, now at the 'Security' step. The progress bar shows 'Identity' and 'Device Information' completed with checkmarks, and 'Security' is the current active step, followed by 'Summary'. The 'Security' section provides two options for selecting a device authentication token:

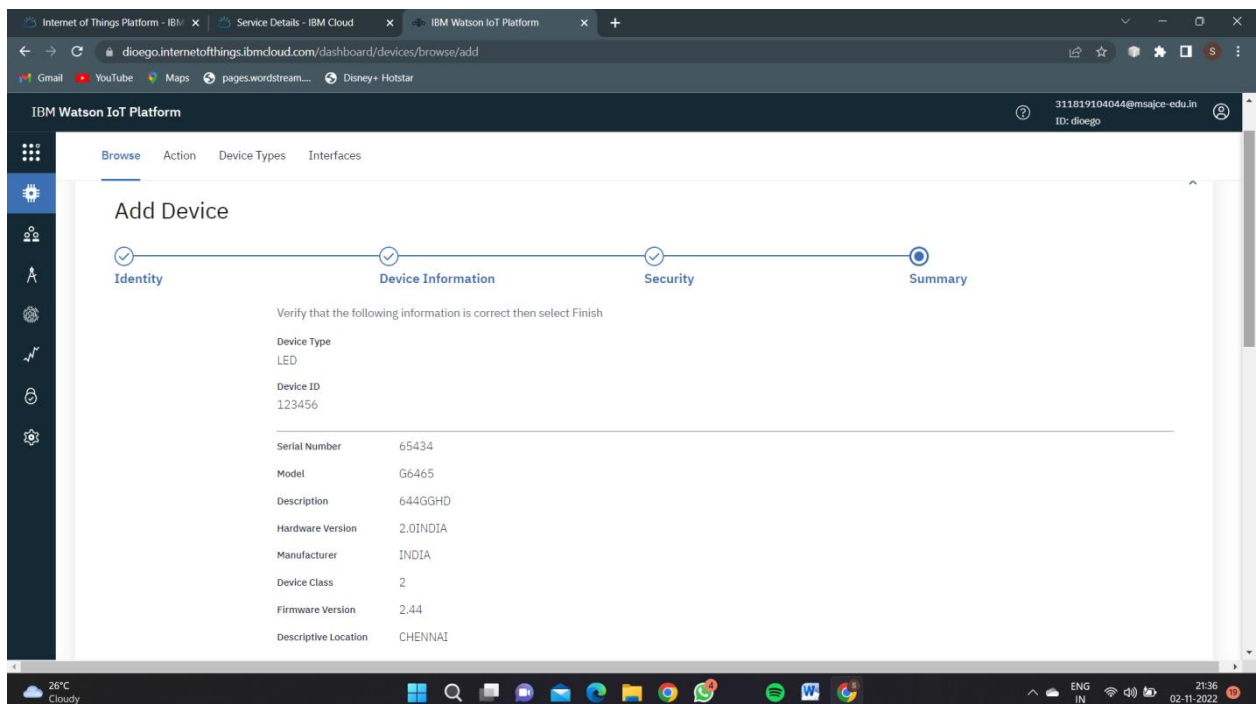
- Auto-generated authentication token (default)**: This option allows the service to generate an authentication token for the user. It states that tokens are 18 characters long and contain a mix of alphanumeric characters and symbols. The token is returned to the user at the end of the device registration process.
- Self-provided authentication token**: This option requires the user to provide their own authentication token. It specifies that 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. It also warns not to use repeated characters, dictionary words, user names, or other predefined sequences.

Below these options is an input field for the 'Authentication Token' with the placeholder text 'Enter an optional token'. A note below the field states: 'Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored.' At the bottom of the page, a small text line reads: 'Authentication token are encrypted before we store them'. The top of the page shows the user's profile and ID: 311819104044@msajce-edu.in, ID: dioego. The bottom of the screen displays a Windows taskbar with the date 02-11-2022 and time 21:30.

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



12. The device credentials will be displayed with all the details. Save the details of the device as the authentication tokens are non-recoverable and if misplaced then we have to create a new one.



13. Clicking on the device tab we can now see the added device. Clicking on it will display the other details. It has different tabs like identity, Device Information, State and Login

Internet of Things Platform - IBM | Service Details - IBM Cloud | IBM Watson IoT Platform

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

IBM Watson IoT Platform

311819104044@msajce-edu.in
ID: dioego

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
123456	Disconnected	LED	Device	Nov 2, 2022 9:37 PM	CHENNAI

Items per page 50 | 1-1 of 1 item

1 of 1 page

26°C Cloudy

ENG IN 21:39 02-11-2022