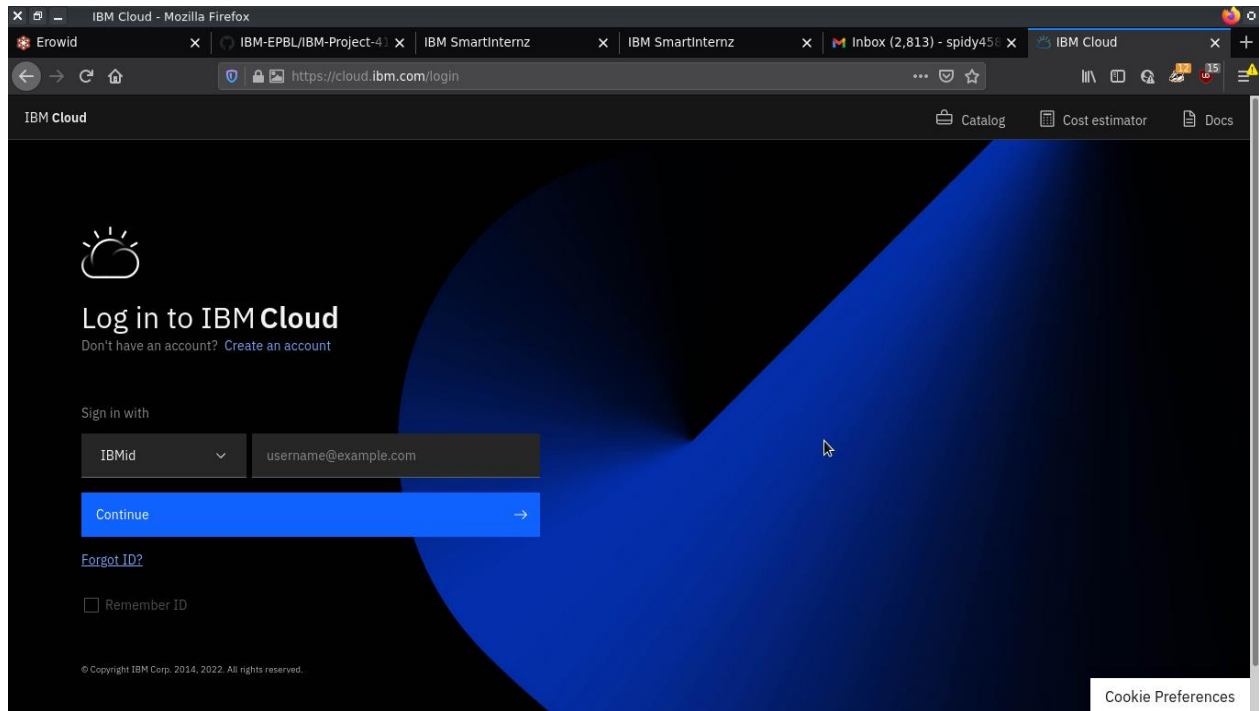


CREATE IBM WATSON IOT PLATFORM AND DEVICE

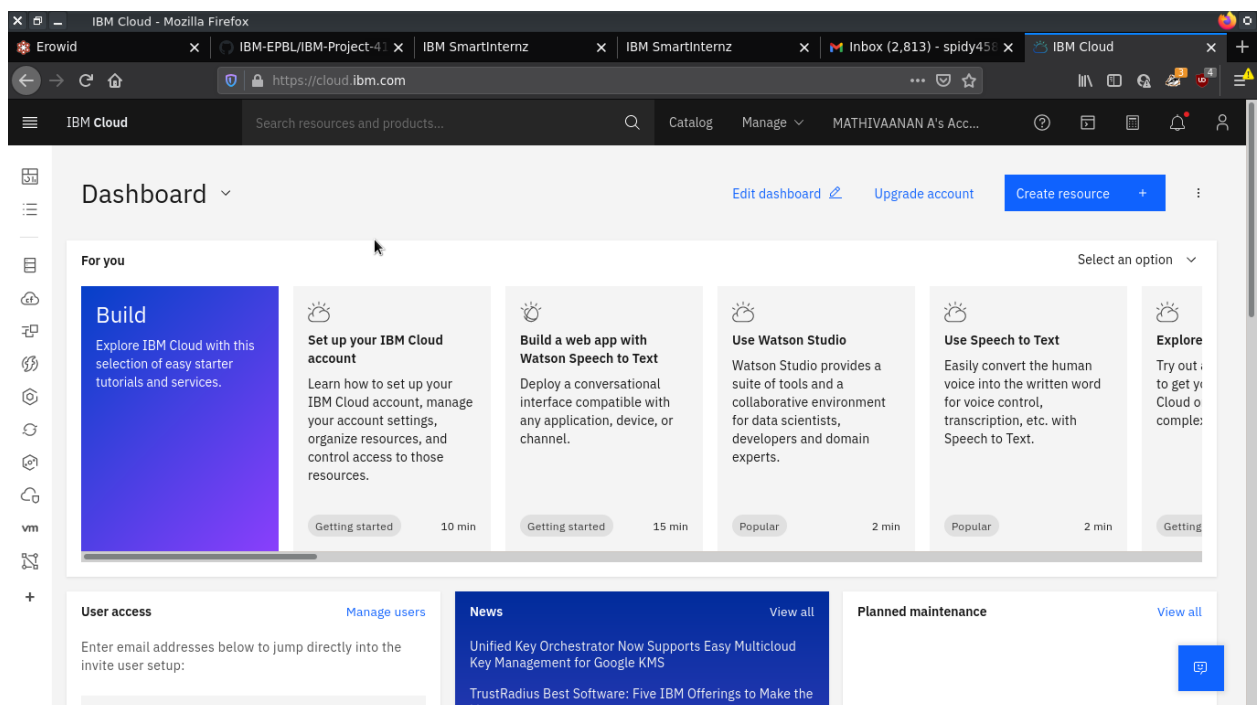
Date	26-10-2022
Team ID	PNT2022TMID44574
Project Name	Project - IOT based safety gadget for child safety monitoring and notification
Maximum Marks	4 Marks

STEPS:

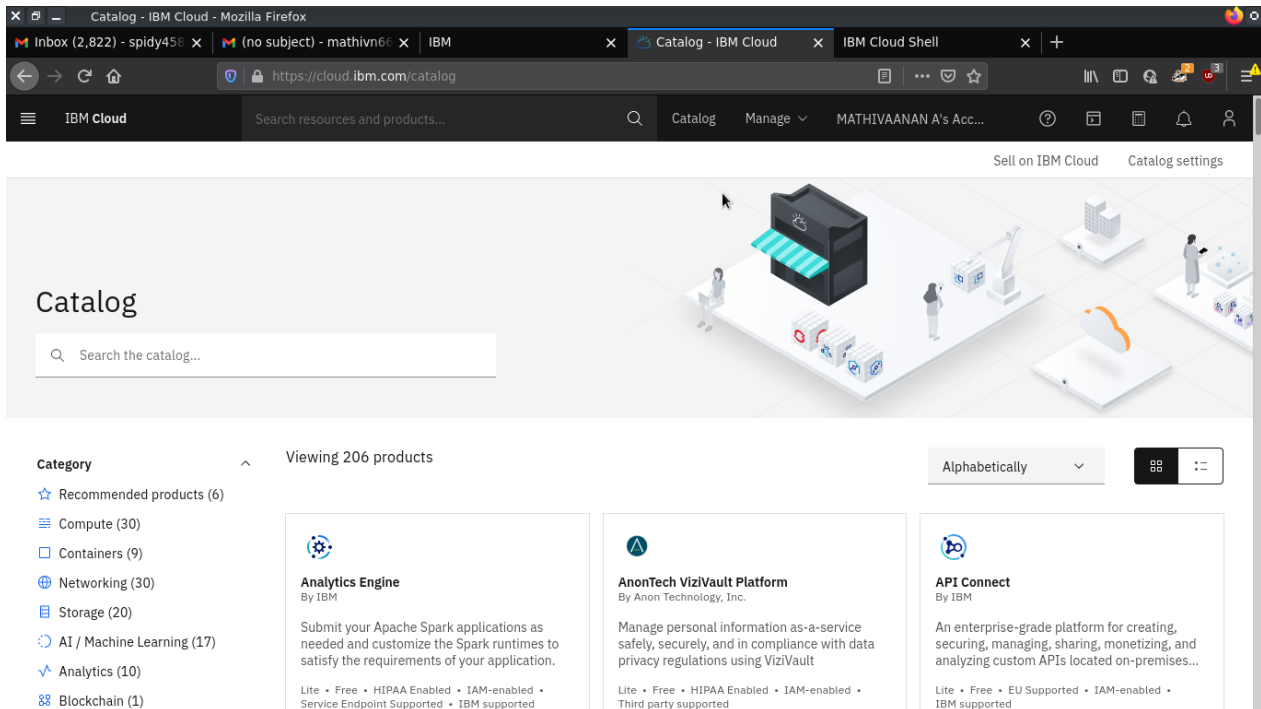
1. First create an IBM cloud account with IBM id and password



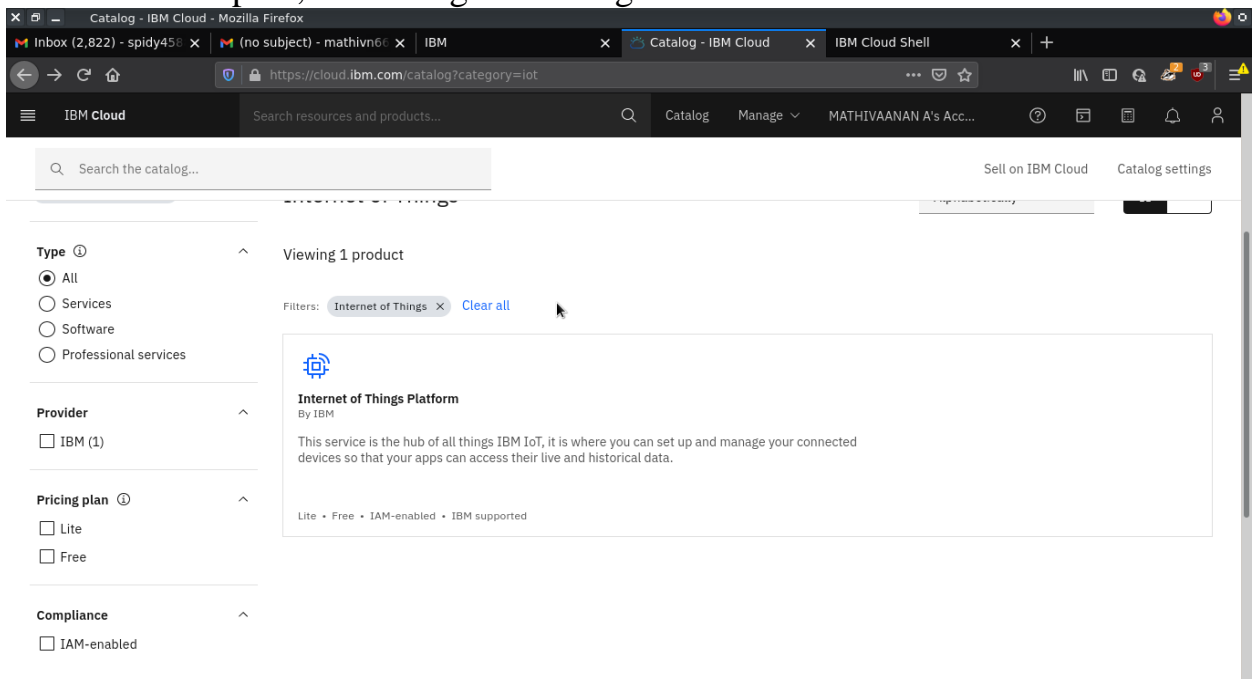
2. Home page of IBM cloud



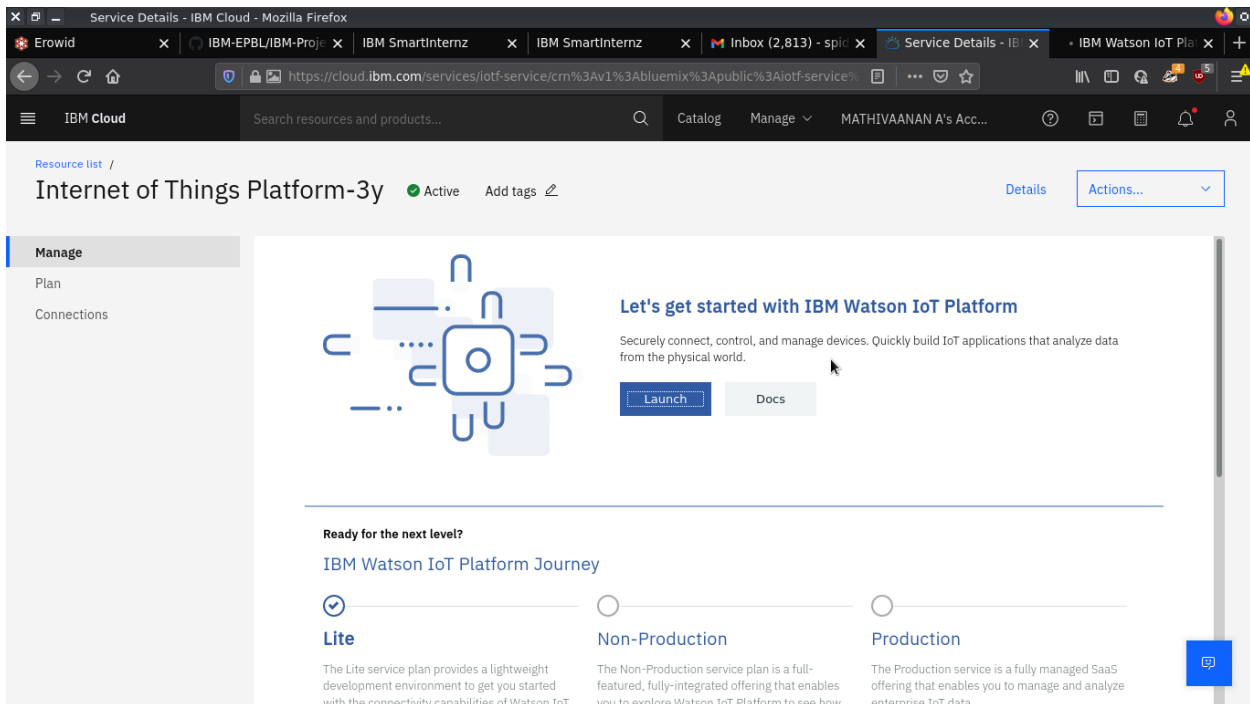
3. Click on the catalog on the top. Search for INTERNET OF THINGS PLATFORM



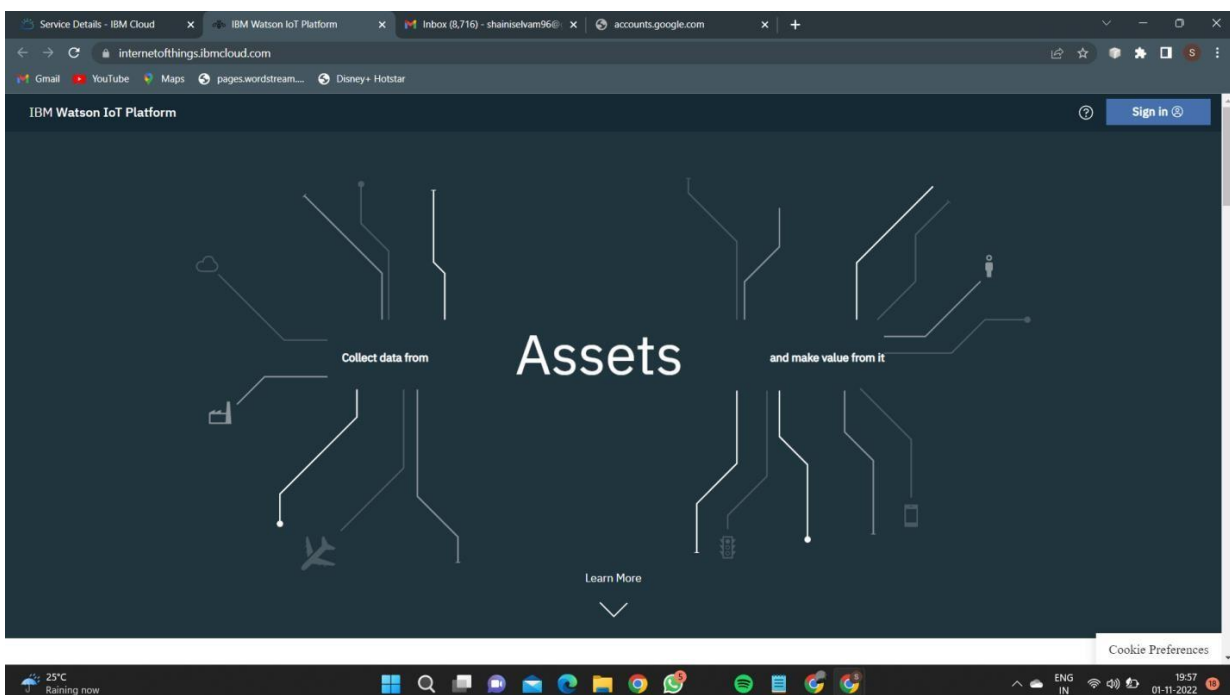
4. Enter the location and in the configure your resource type the service name and choose the plan, tick the agree with agreements and then click on create



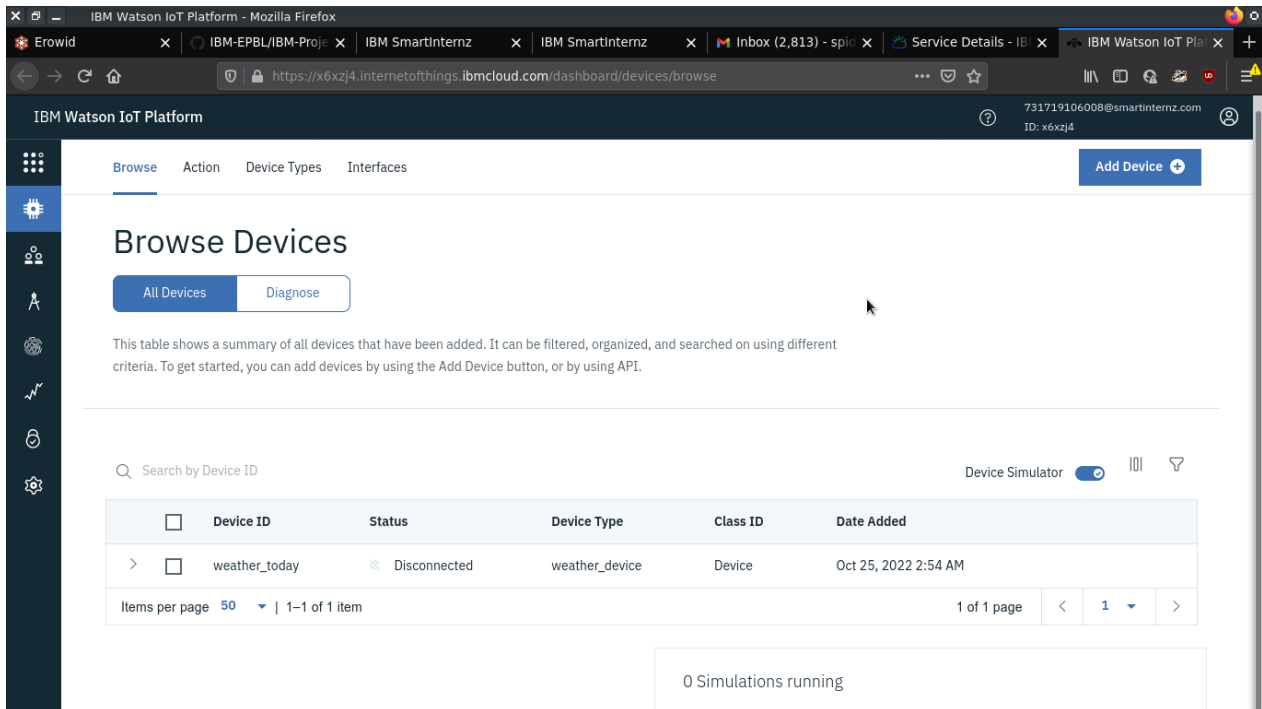
5. Internet of Things Platform Child_safety will be created, where there are different options like manage, plan, and connection (manage is for launch, Plan gives us the idea about the payment package and its upgrades, and lastly the connection is for to connect IoT with other services). Click on launch.



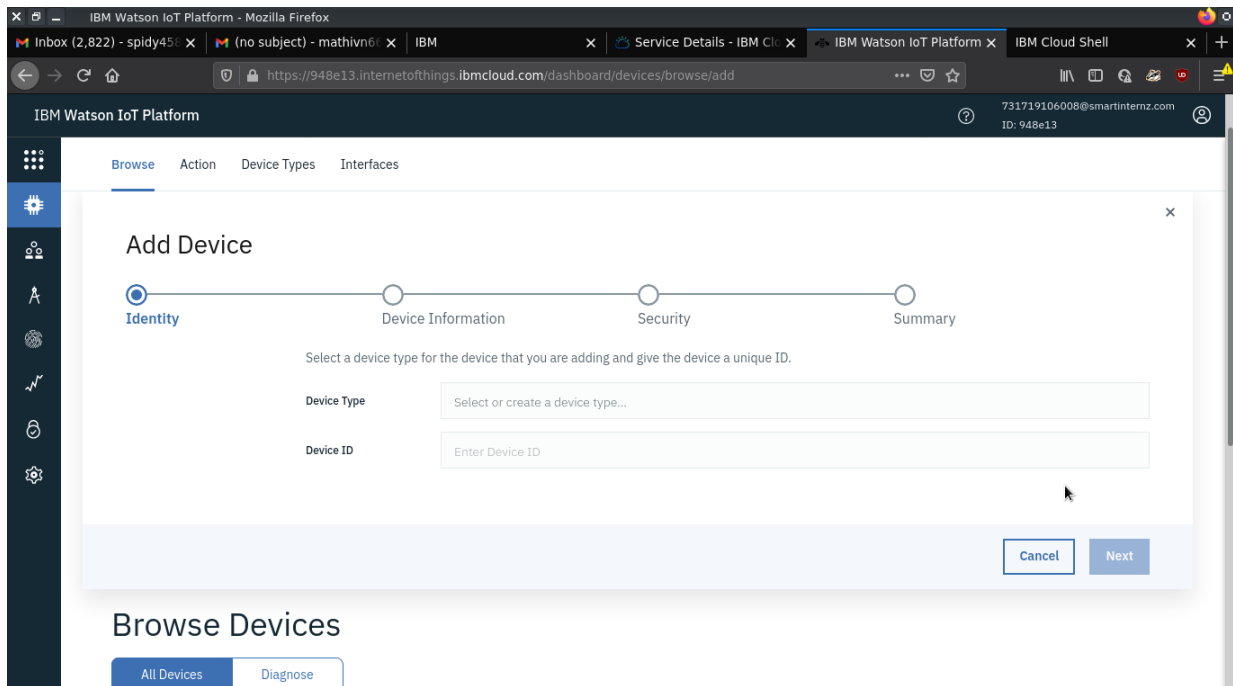
6. Now you need to sign in. Enter the details to sign in to the Watson Cloud to create a device.



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



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



8. 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 four steps: Identity (completed), Device Information (current step), Security, and Summary. The 'Device Information' step contains the following fields:

Field	Input
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

At the bottom left of the form is a button labeled 'Add Metadata +'. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The user's email '731719106008@smartinternz.com' and ID '948e13' are visible in the top right corner.

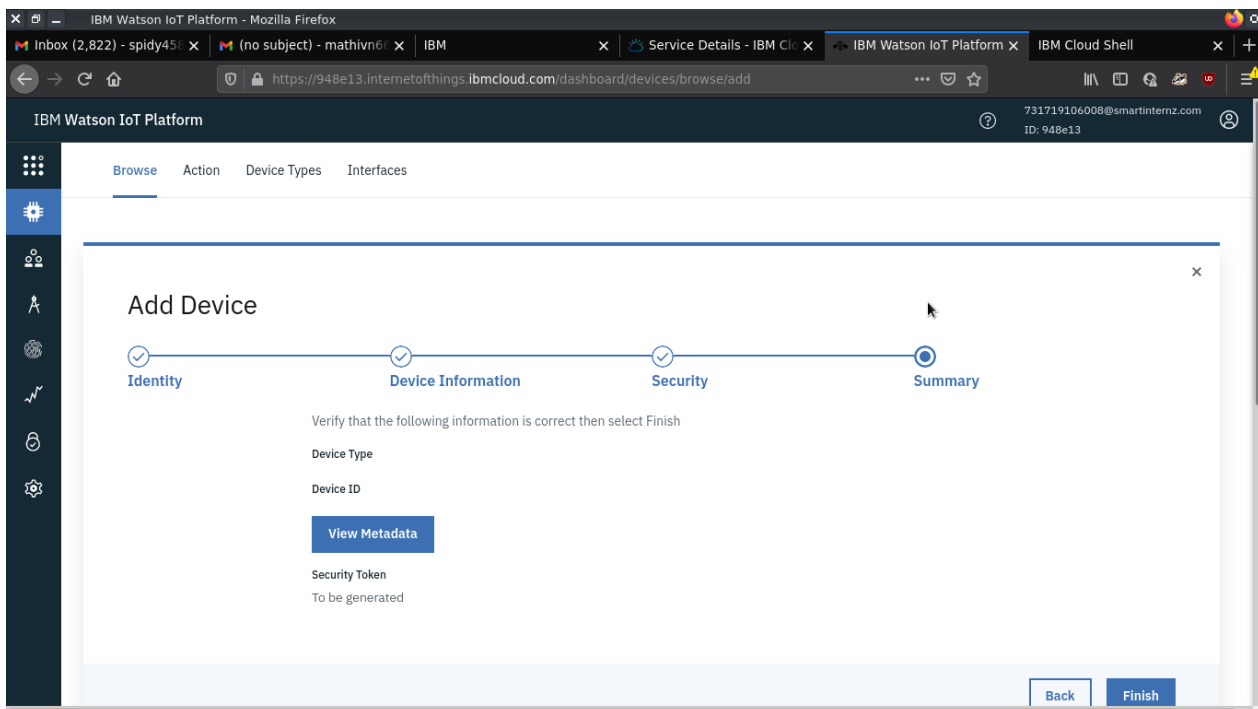
9. Clicking next it goes to the security where we do authentication token id.

The screenshot shows the 'Add Device' wizard at the 'Security' step. The progress bar shows 'Identity' and 'Device Information' as completed steps, 'Security' as the current step, and 'Summary' as the next step. The page presents two options for selecting a device authentication token:

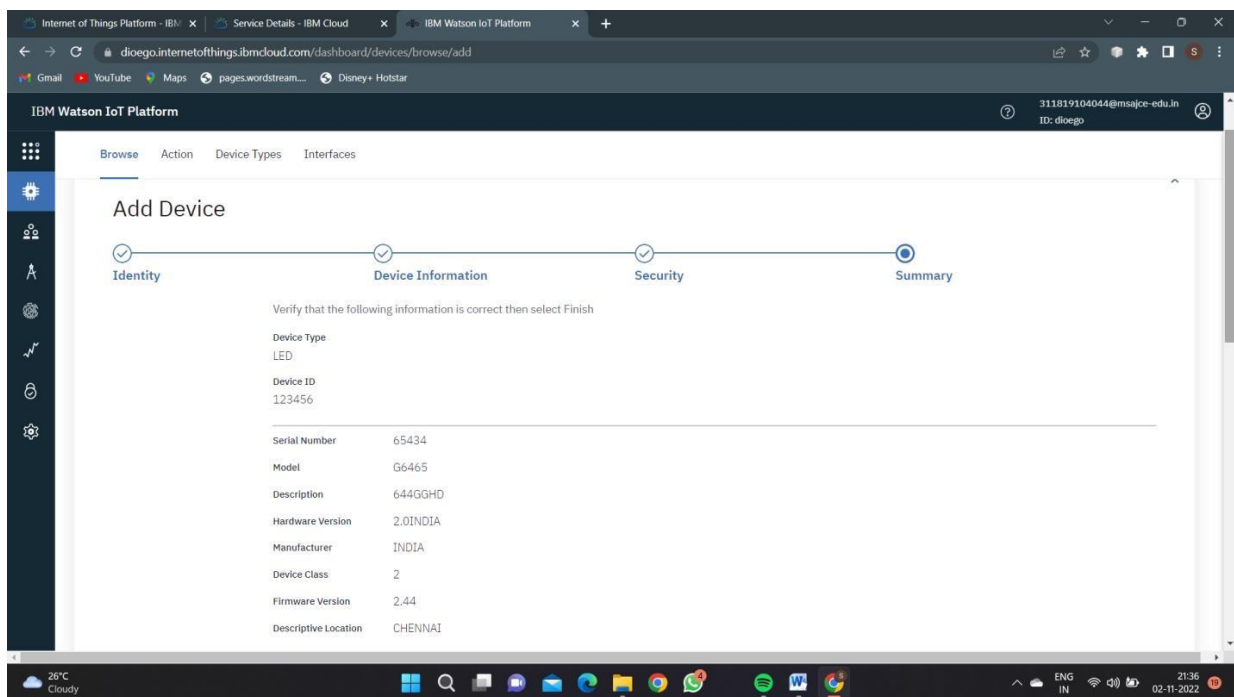
- Auto-generated authentication token (default)**
Allow the service to generate an authentication token for you. Tokens are 18 characters and contain a mix of alphanumeric characters and symbols. The token is returned to you at the end of the device registration process.
- Self-provided authentication 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.

Below these options is an 'Authentication Token' input field with the placeholder text 'Enter an optional token'. A warning message states: 'Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored.' Below this, a note says: 'Authentication token are encrypted before we store them.'

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



11. 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.



12. 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

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 ☐ Filter

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added
> <input type="checkbox"/>	502645	Disconnected	NodeMCU	Device	Nov 8, 2022 4:12 PM

Items per page 50 | 1-1 of 1 item

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