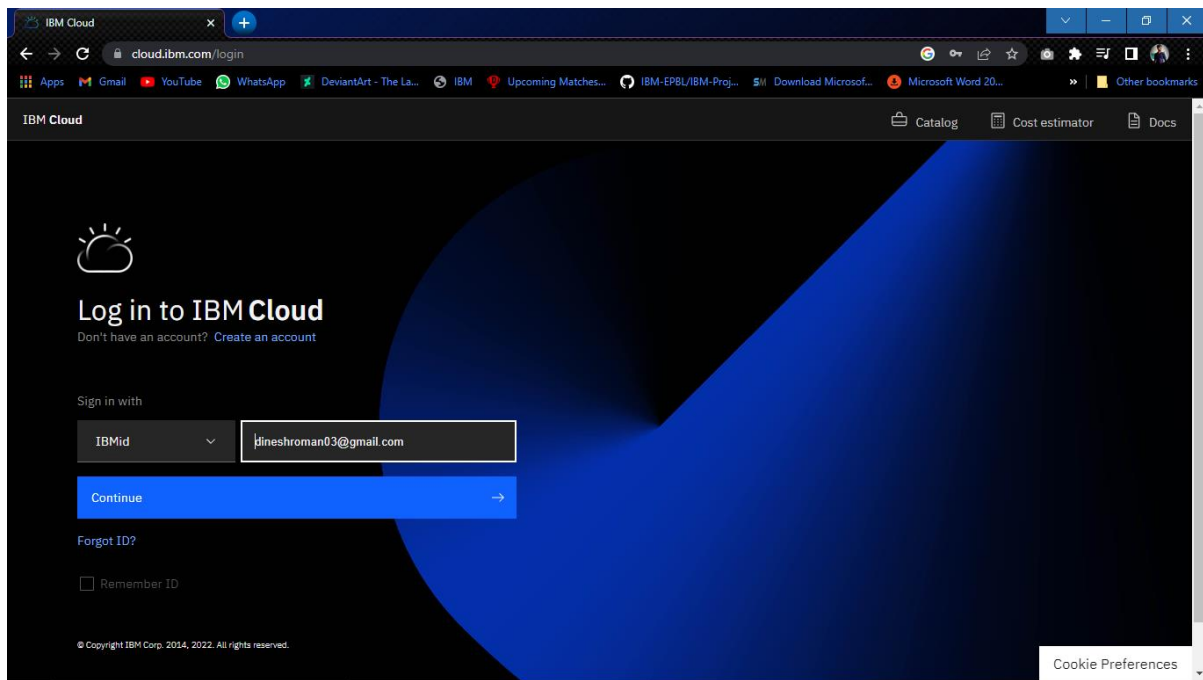


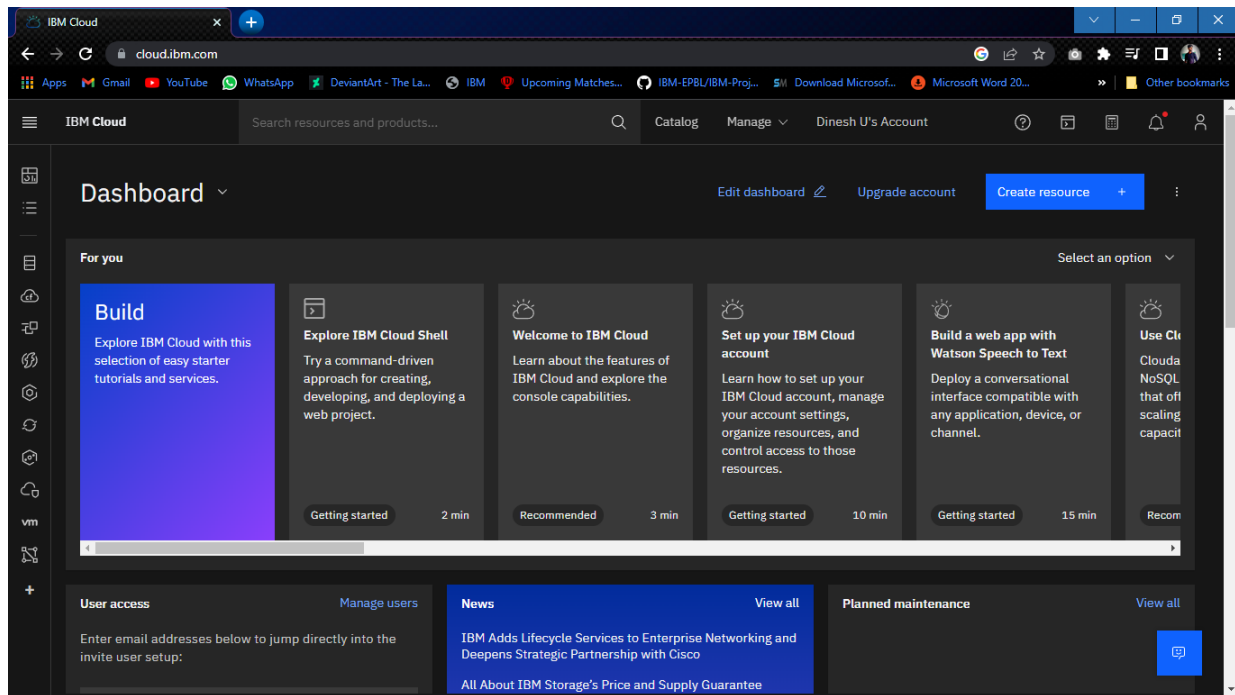
# CREATE IBM WATSON IOT PLATFORM AND DEVICE

## STEPS:

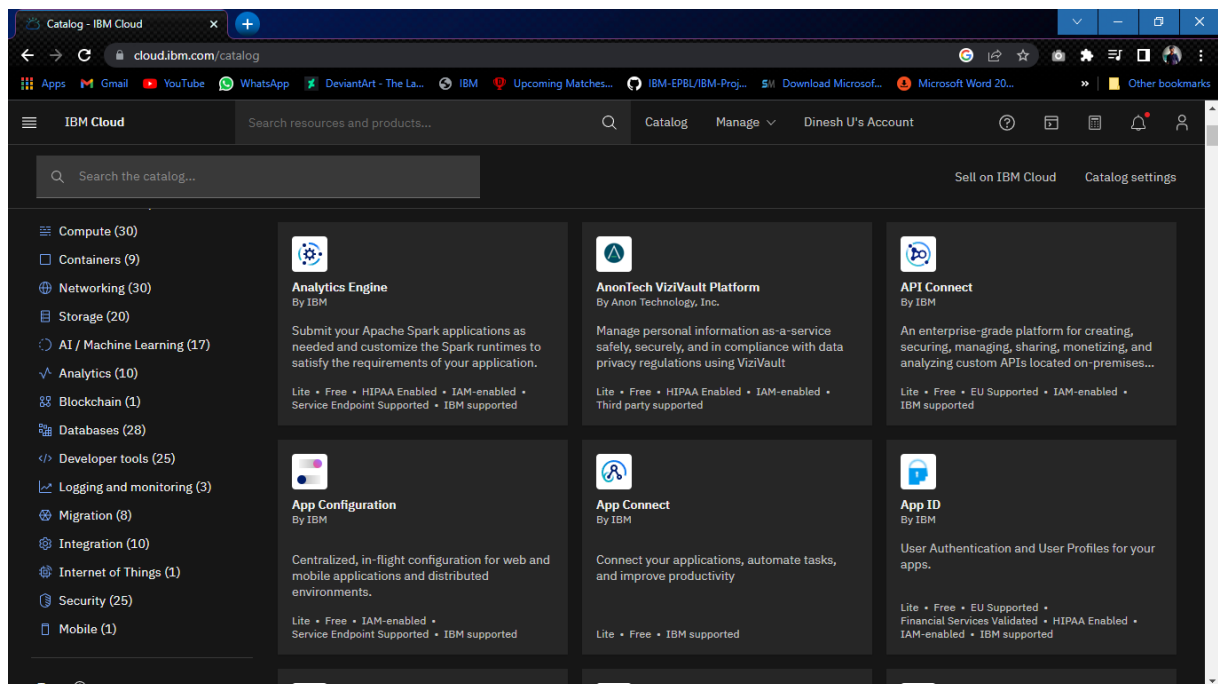
Firstly, create an IBM cloud account with IBMid and password.



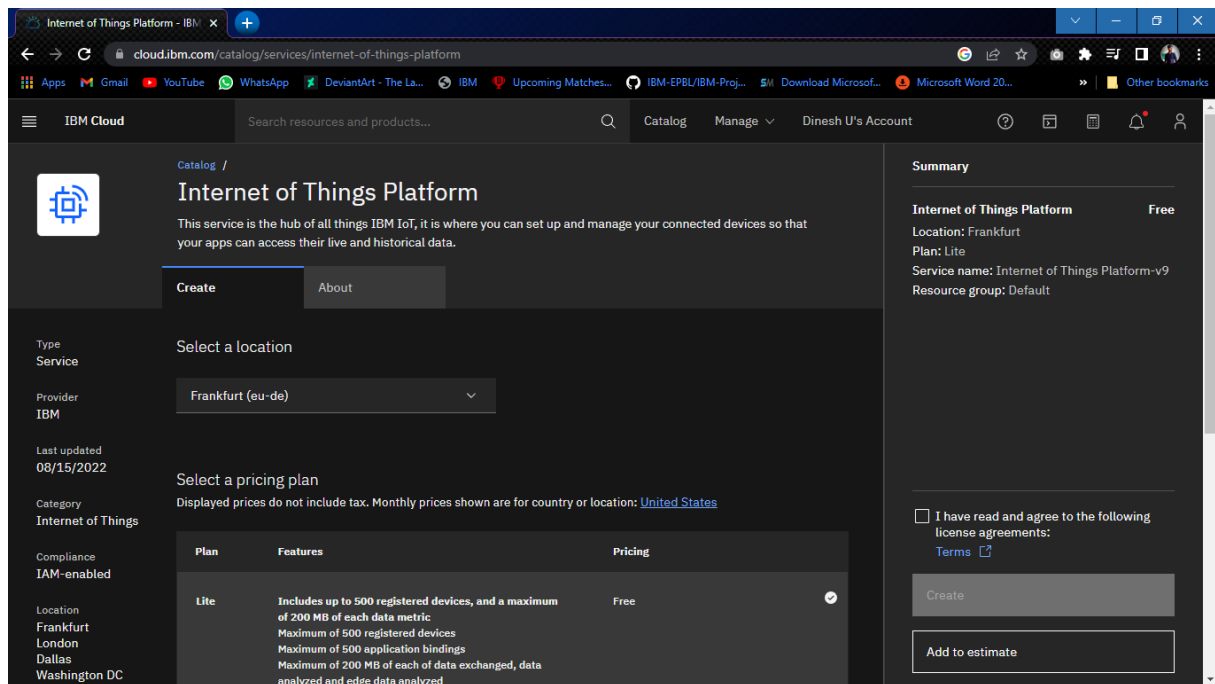
Home page of IBM cloud.



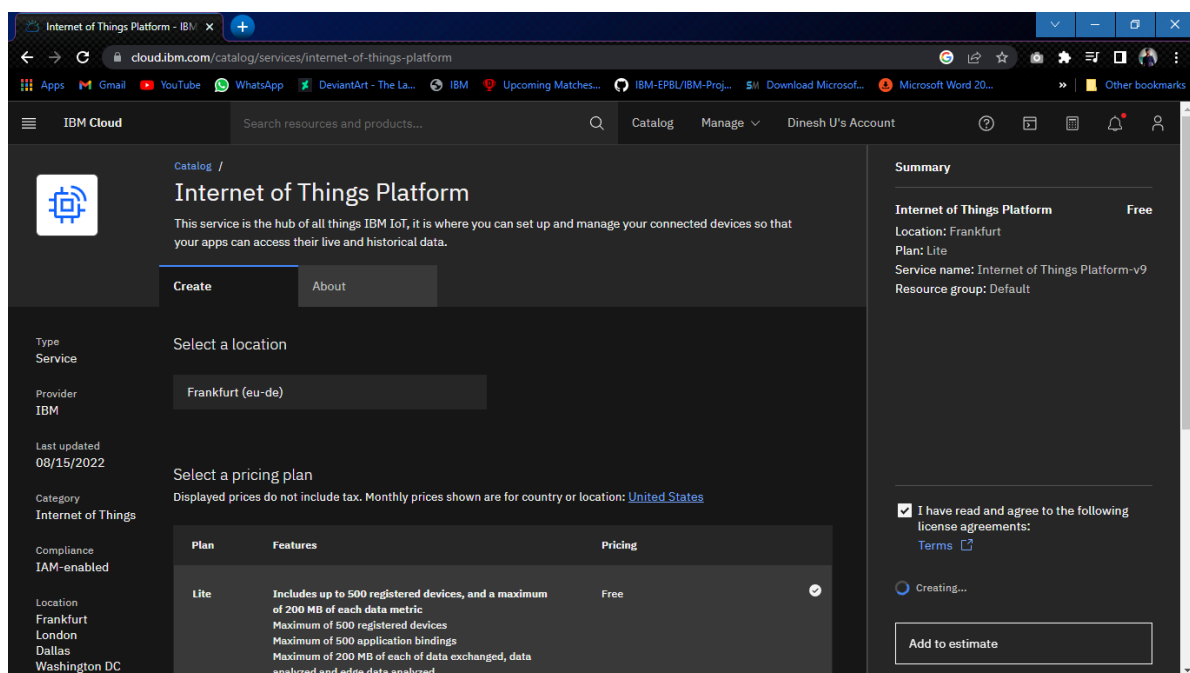
Click on the catalog on the top.



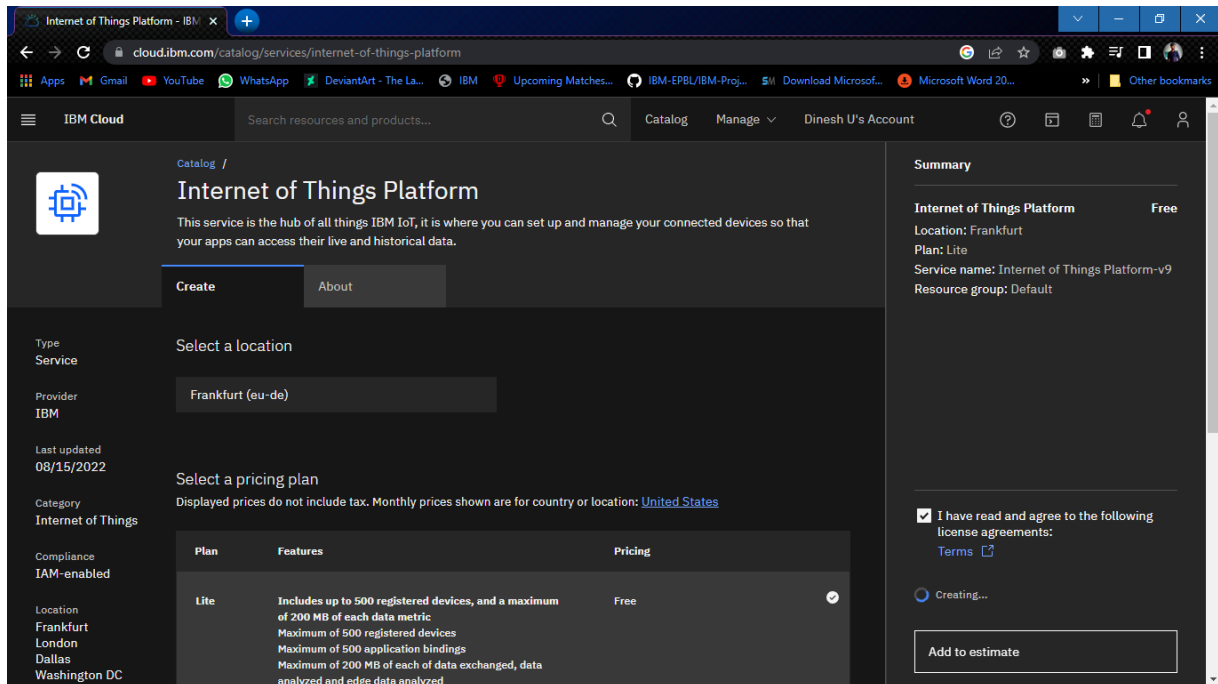
Click on IoT in the category mentioned.



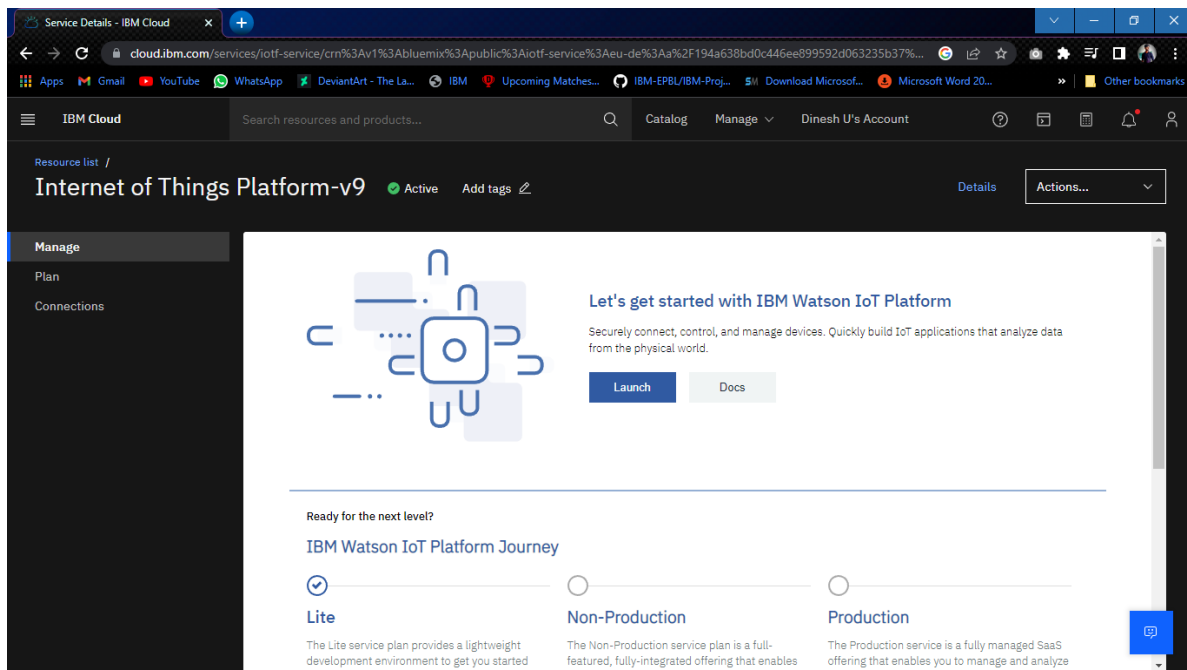
Enter the location and in the configure your resource type the service name and choose the plan, tick the agree with agreements and then click on create

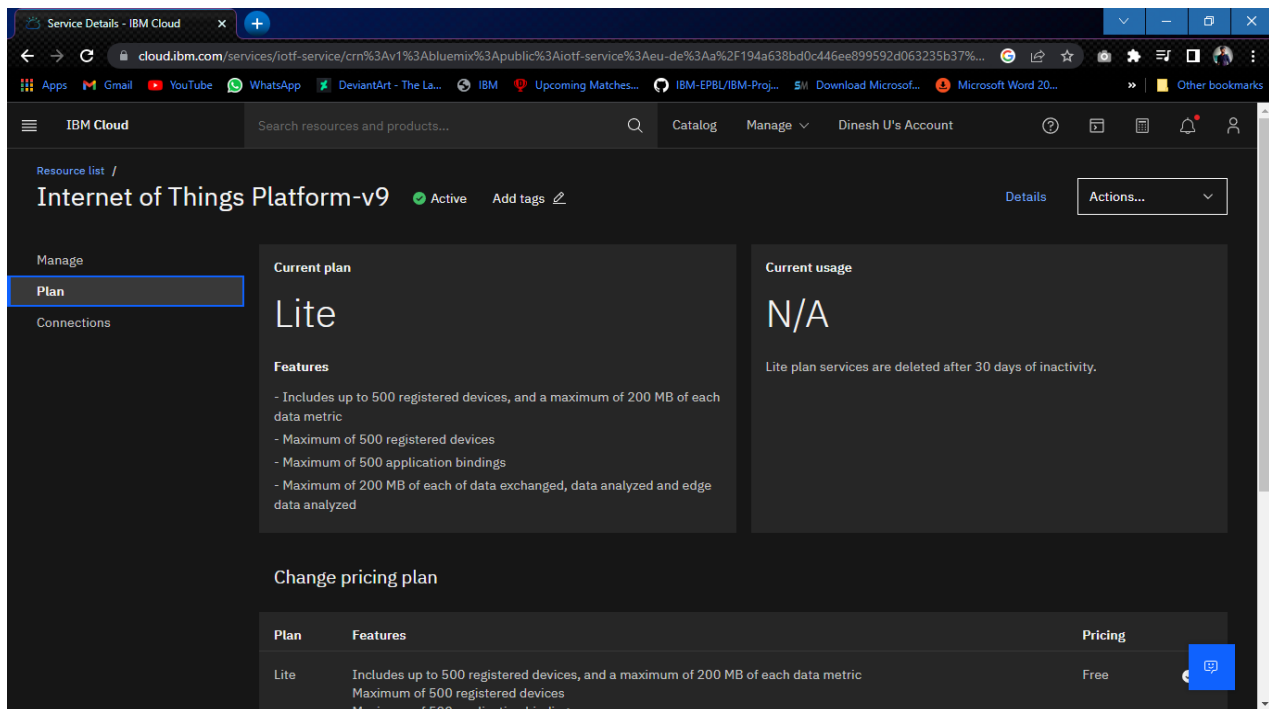


Enter the location and in the configure your resource type the service name and choose the plan, tick the agree with agreements and then click on create.

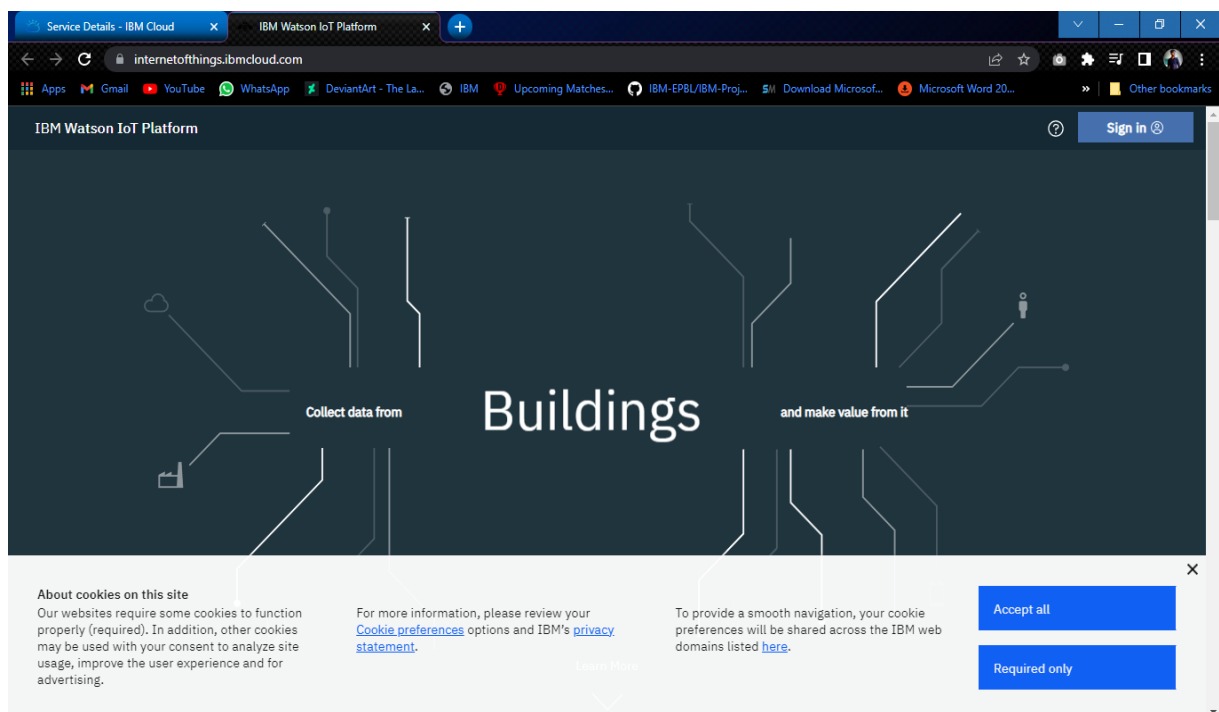


Internet of Things platform child safety will be created , where there are different option like manage, plan, and connection.

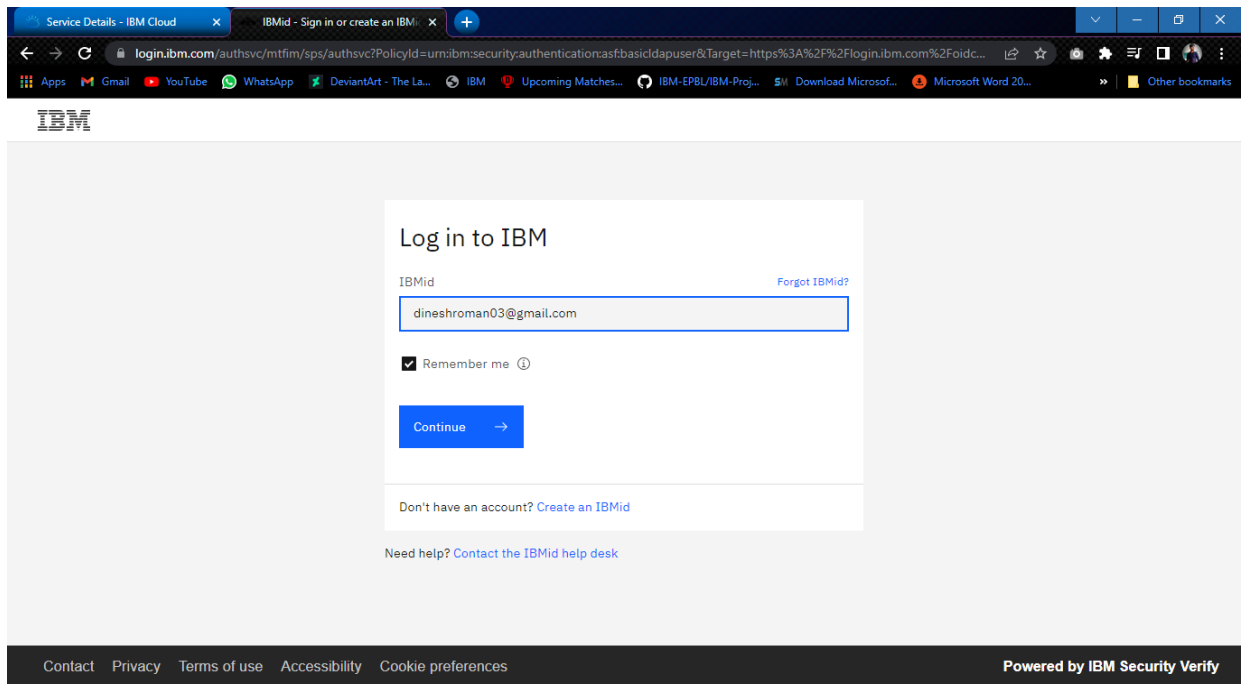




Clicking on the launch button in the manage tab, it will open to this.

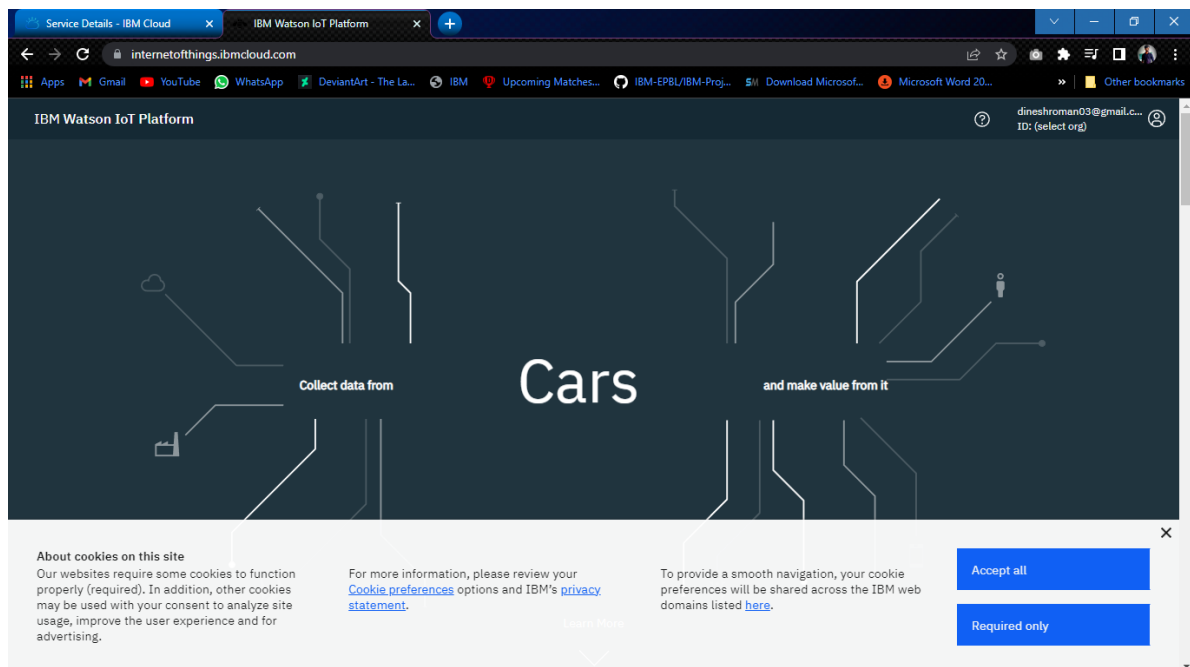


Enter the details to sign into the Watson Cloud to create a device.

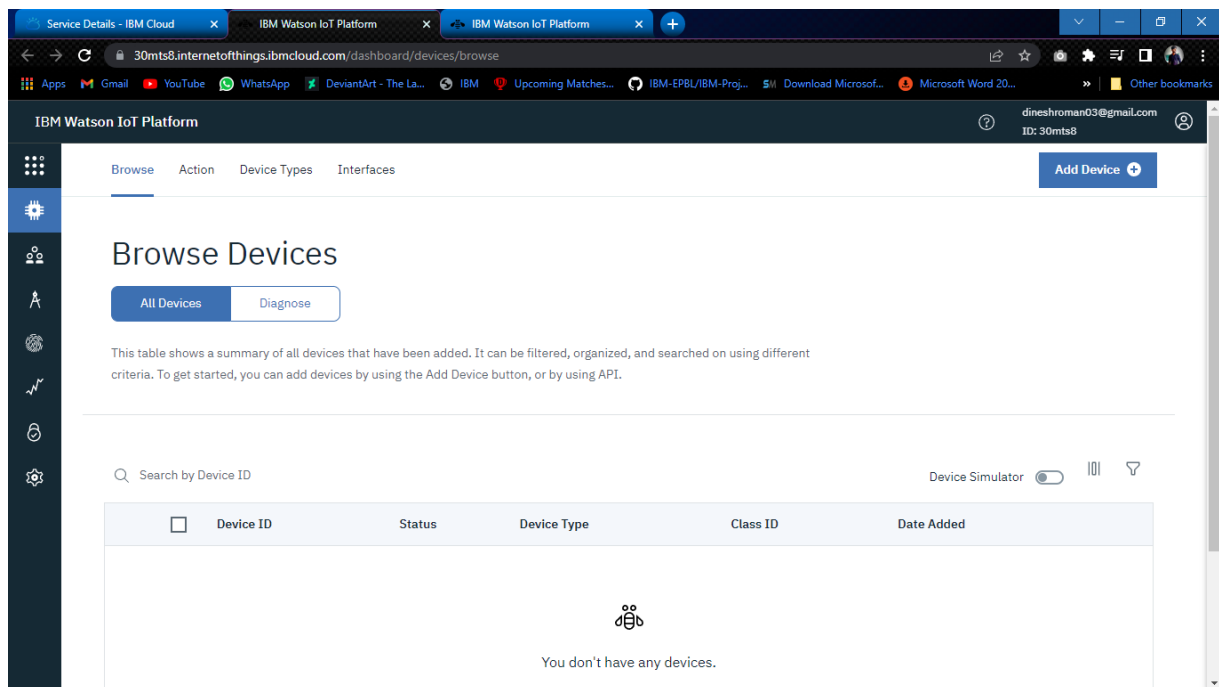


The screenshot shows a web browser window with the URL `login.ibm.com/authsvc/mtf/m/sps/authsvc?PolicyId=urn:ibm:security:authentication:asf:basicdapuser&Target=https%3A%2F%2Flogin.ibm.com%2Foidc...`. The page features the IBM logo at the top left. The main content area is titled "Log in to IBM" and contains a login form. The form has a label "IBMid" and a text input field containing the email address "dineshroman03@gmail.com". To the right of the input field is a link "Forgot IBMid?". Below the input field is a checkbox labeled "Remember me" with an information icon. A blue "Continue" button with a right-pointing arrow is positioned below the checkbox. At the bottom of the form, there is a link "Don't have an account? Create an IBMid". Below the form, there is a link "Need help? Contact the IBMid help desk". The footer of the page includes links for "Contact", "Privacy", "Terms of use", "Accessibility", and "Cookie preferences", followed by the text "Powered by IBM Security Verify".

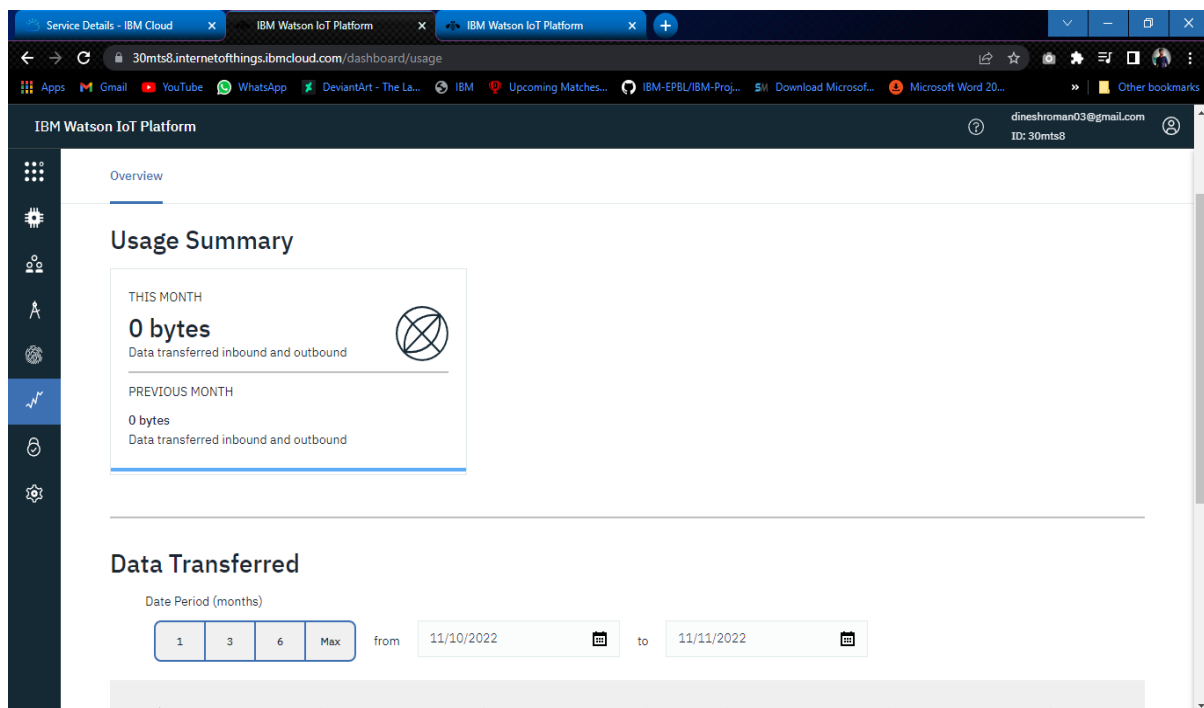
Once logged in the name will be displayed and it goes back to the first page.



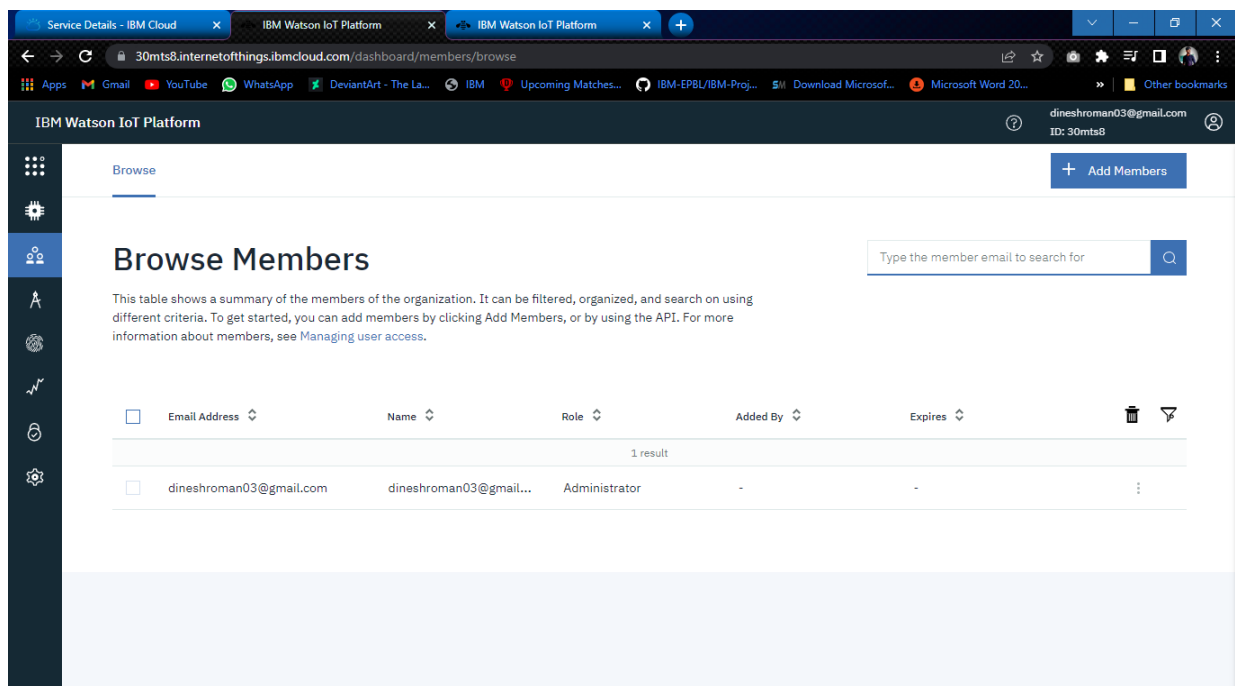
And again clicking on the launch button will open this tabs, the device will help in the creation of the devices, and the display of details of the devices.



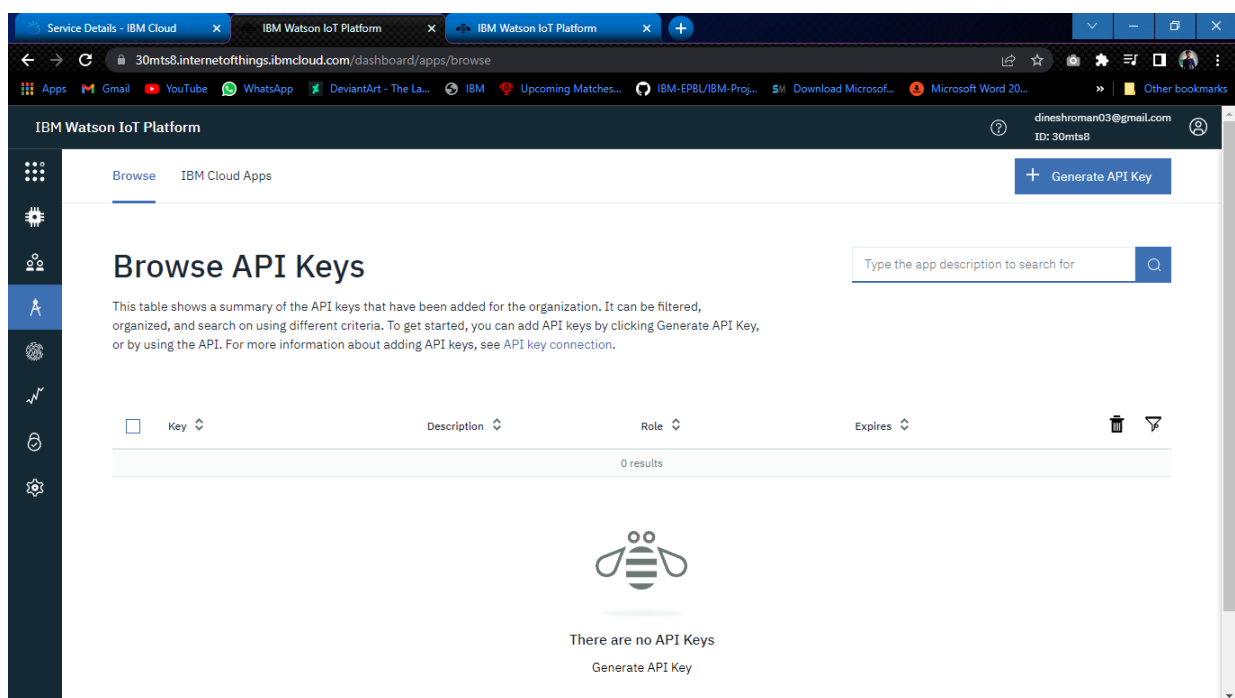
Usage gives the summary of how many bytes are used between the devices and the IBM cloud.



The member tab is adding the teams' members to work in the platform.



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





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

The screenshot shows the IBM Watson IoT Platform web interface. The browser address bar displays the URL `30mts8.internetofthings.ibmcloud.com/dashboard/devices/browse/add`. The page title is "IBM Watson IoT Platform". The user is logged in as `dineshroman03@gmail.com` with ID `30mts8`. The navigation menu on the left includes icons for Home, Users, Devices, Analytics, and Settings. The main content area is titled "Add Device" and features 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." There are two input fields: "Device Type" with a dropdown menu showing "Select or create a device type..." and "Device ID" with a text input showing "Enter Device ID". At the bottom right of the form are "Cancel" and "Next" buttons. Below the form, there is a section titled "Browse Devices" with two buttons: "All Devices" and "Diagnose".

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 or pending. The page contains several input fields for device details:

Field	Value
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

Below the input fields is a button labeled 'Add Metadata'. At the bottom right, there are 'Back' and 'Next' buttons.

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 that 'Identity' and 'Device Information' are completed, and 'Security' is the current step. The page provides information about authentication tokens and includes a text input field for the token.

There are 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**

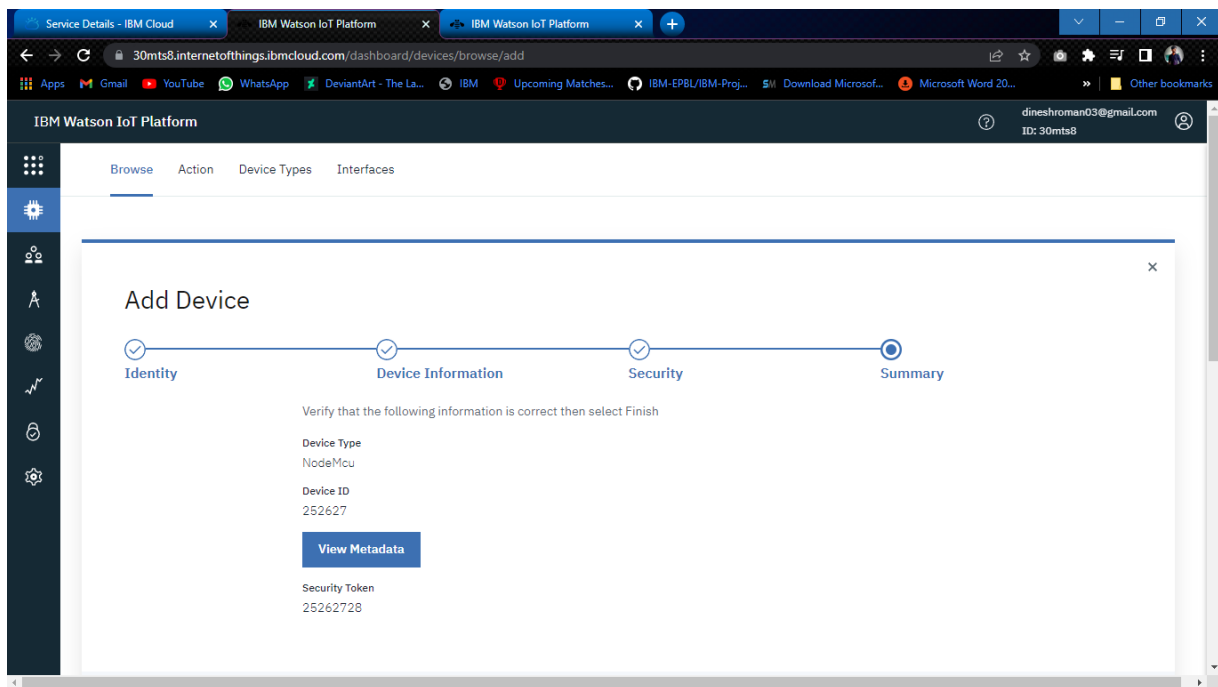
Provide your own authentication token for this device. The token must be between 8 and 36 characters and contain a mix of lowercase and uppercase letters, numbers, and symbols, which can include hyphens, underscores, and periods. Do not use repeated characters, dictionary words, user names, or other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

Authentication Token: 25262728

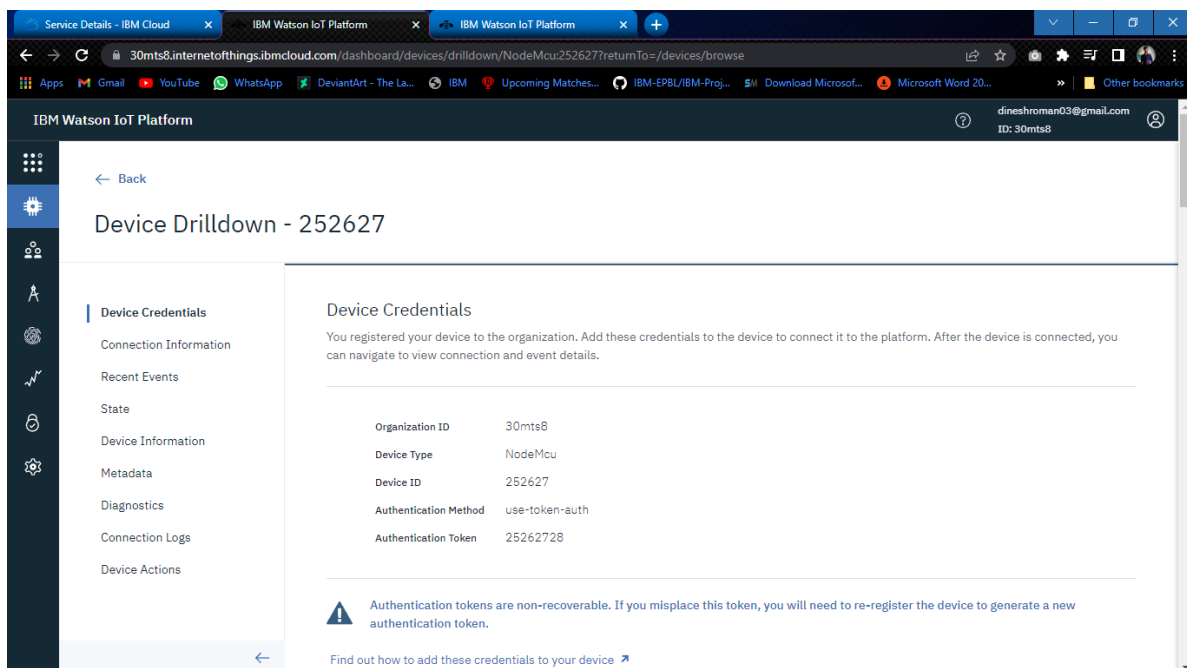
Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored.

Authentication token are encrypted before we store them.

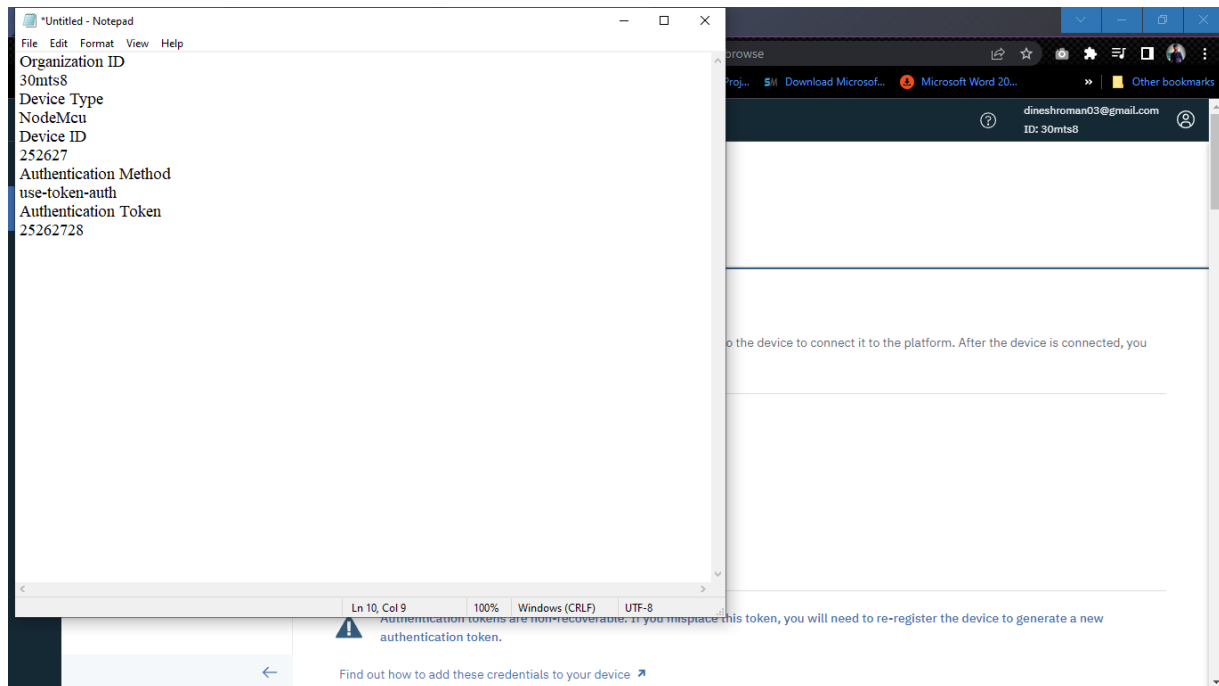
Clicking on next it goes to the summary of the device then click finish.



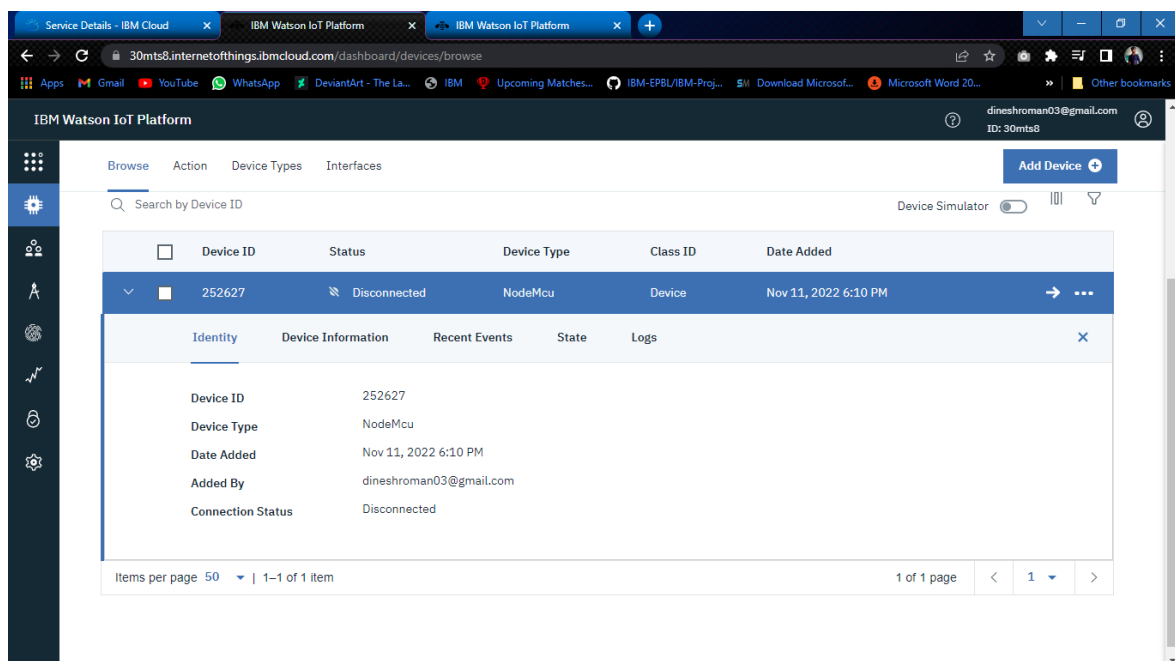
The devices credentials will be displayed with all the details.



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

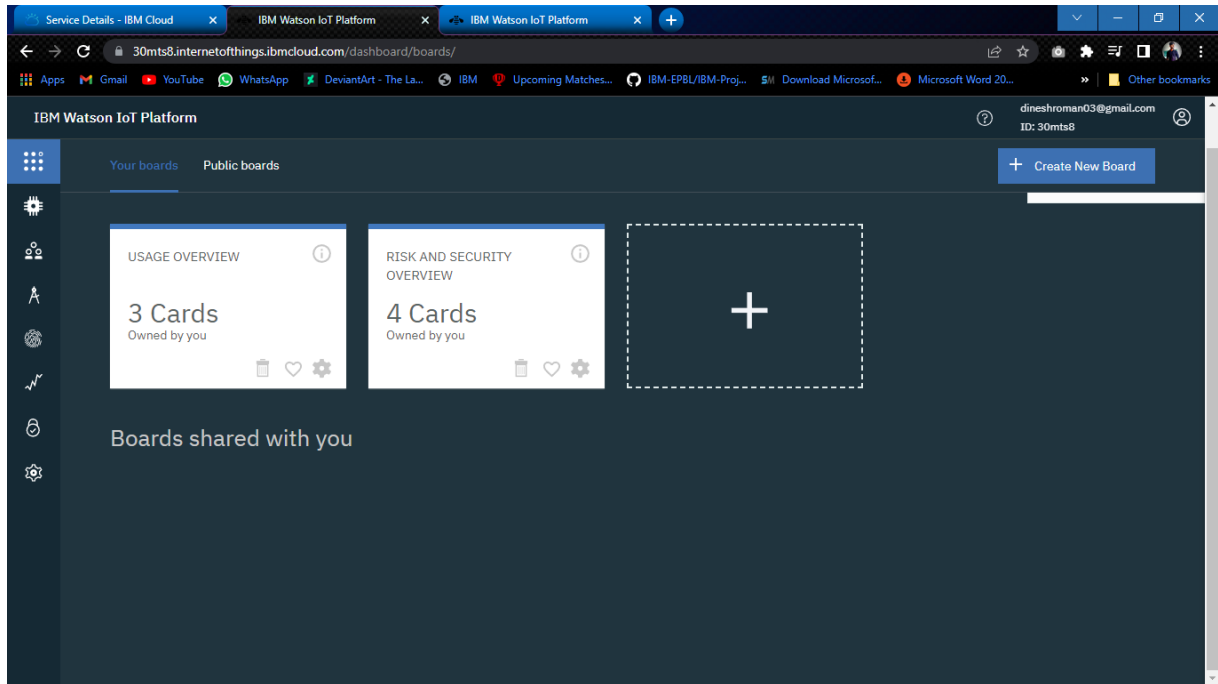


Clicking on the devices tab we can now see the added devices. Clicking on it will display the other details.

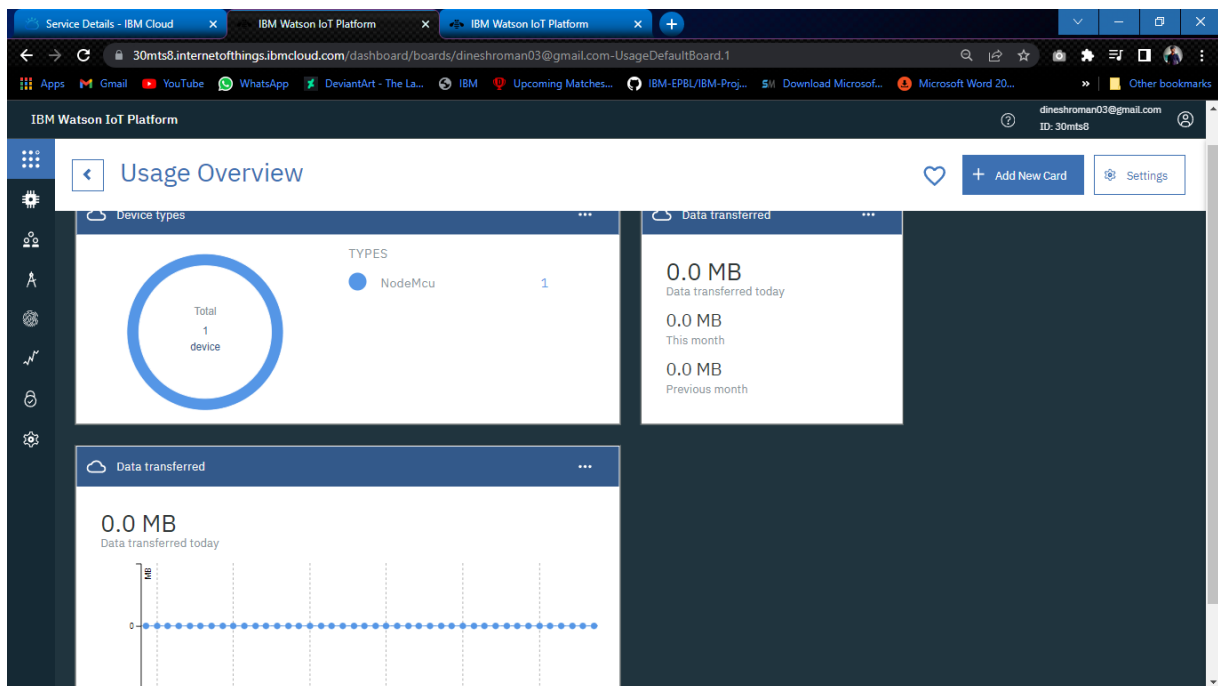


In a similar way, we can create n number of devices with a 50 perpage limit as per the requirement of our project.

The boards will display card for the project.



## Result:



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