

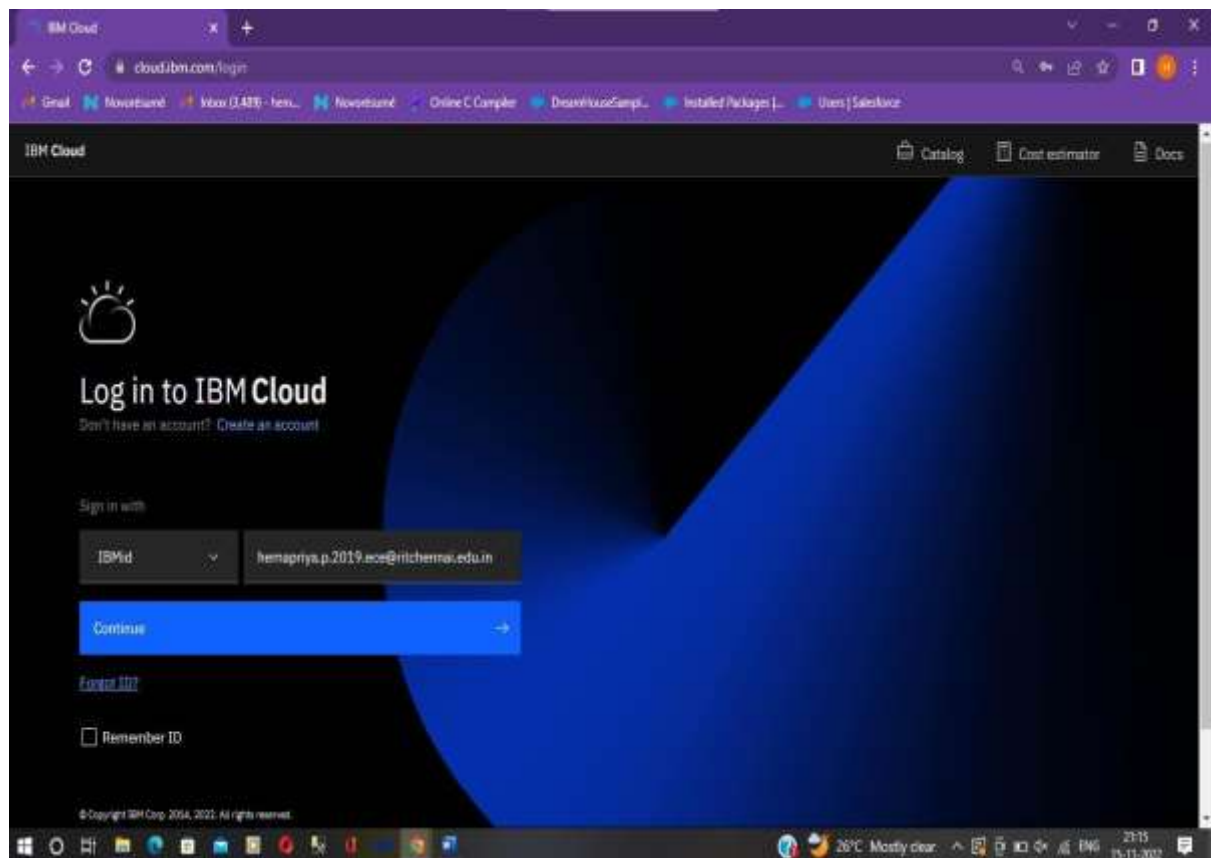
IBM WATSON IOT PLATFORM AND DEVICES

Date	10 November 2022
Team ID	PNT2022TMID47892
Project Name	Project - IoT Based Safety Gadget for Child Safety Monitoring and Notification.

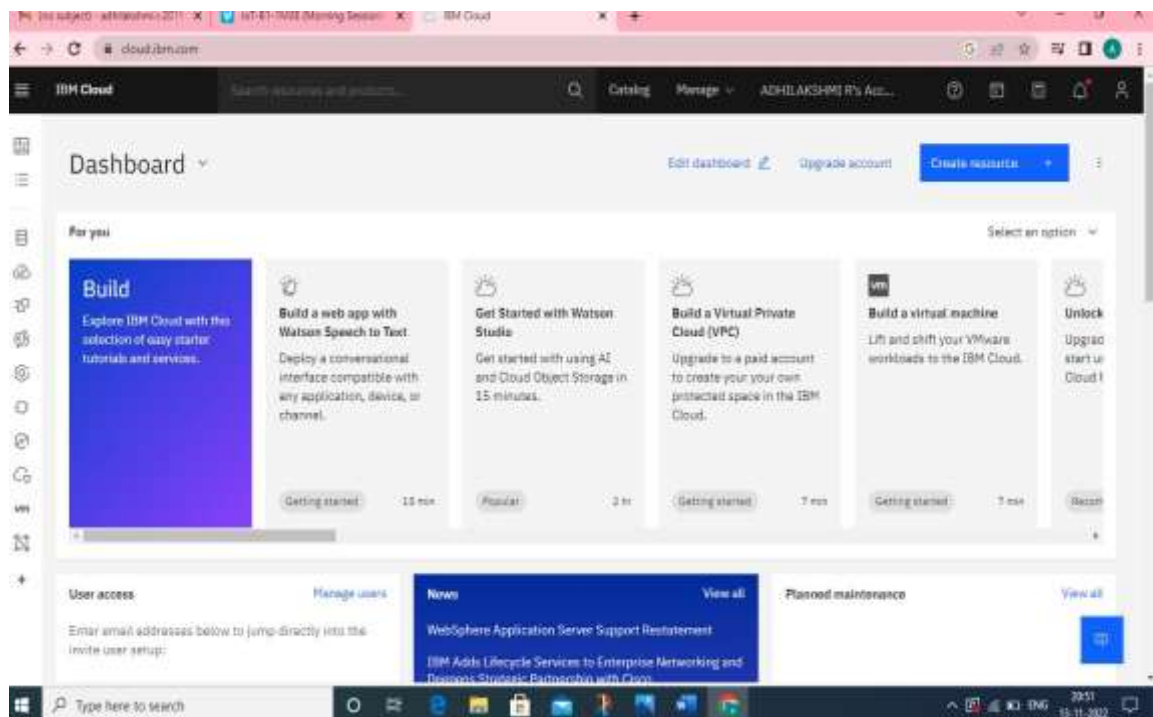
AIM : To create the IBM Watson IoT platform and device

STEPS :

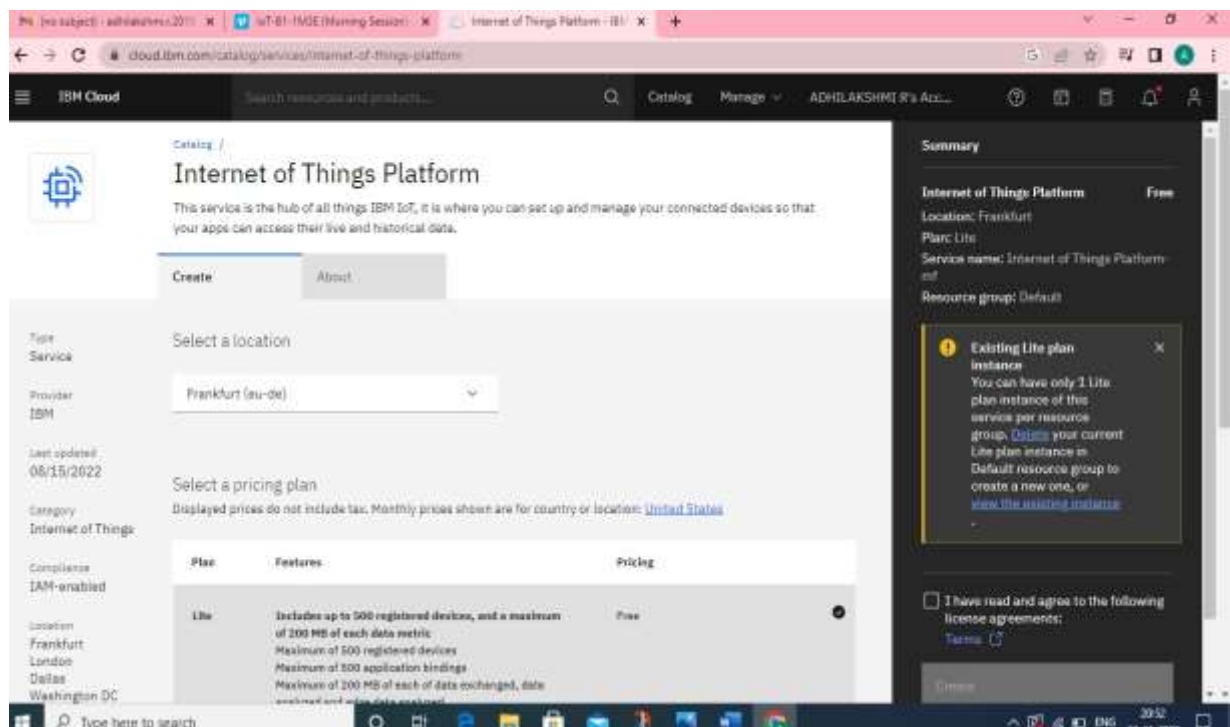
1. Firstly create an IBM cloud account with IBMid and password



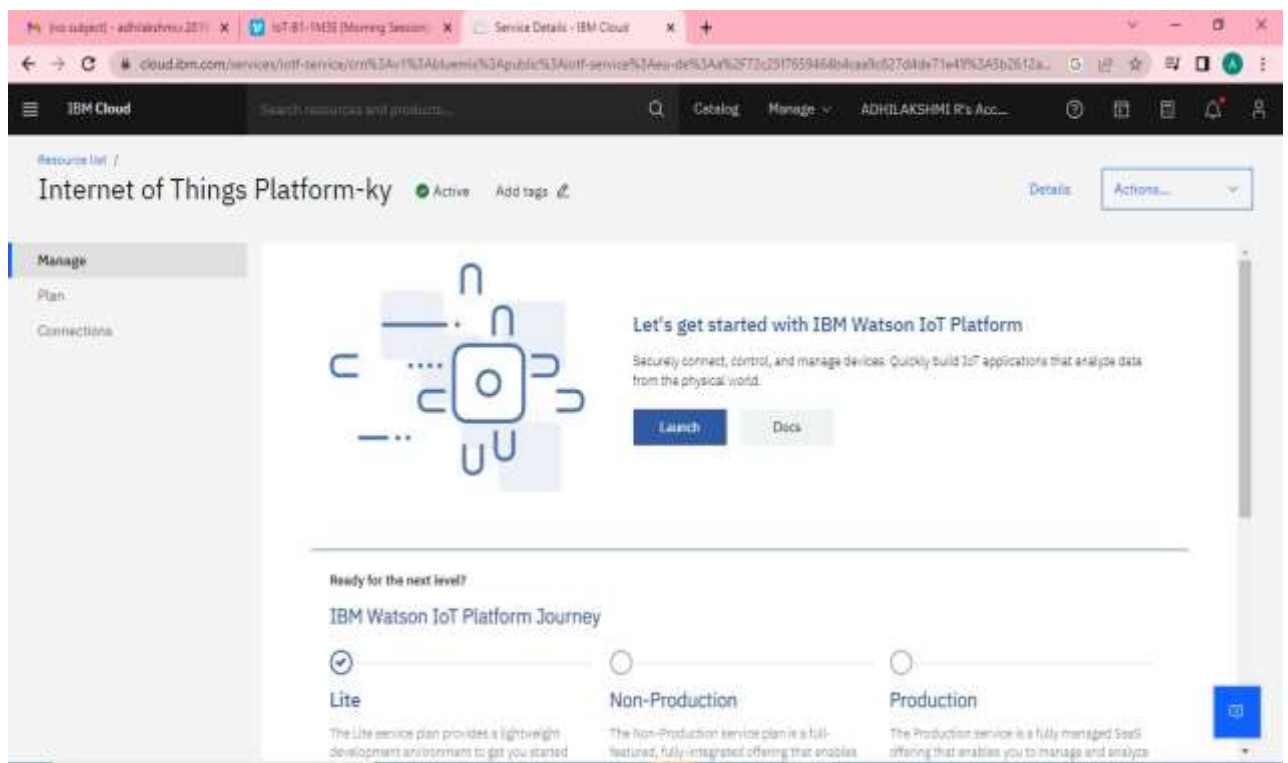
2. Home page of IBM cloud



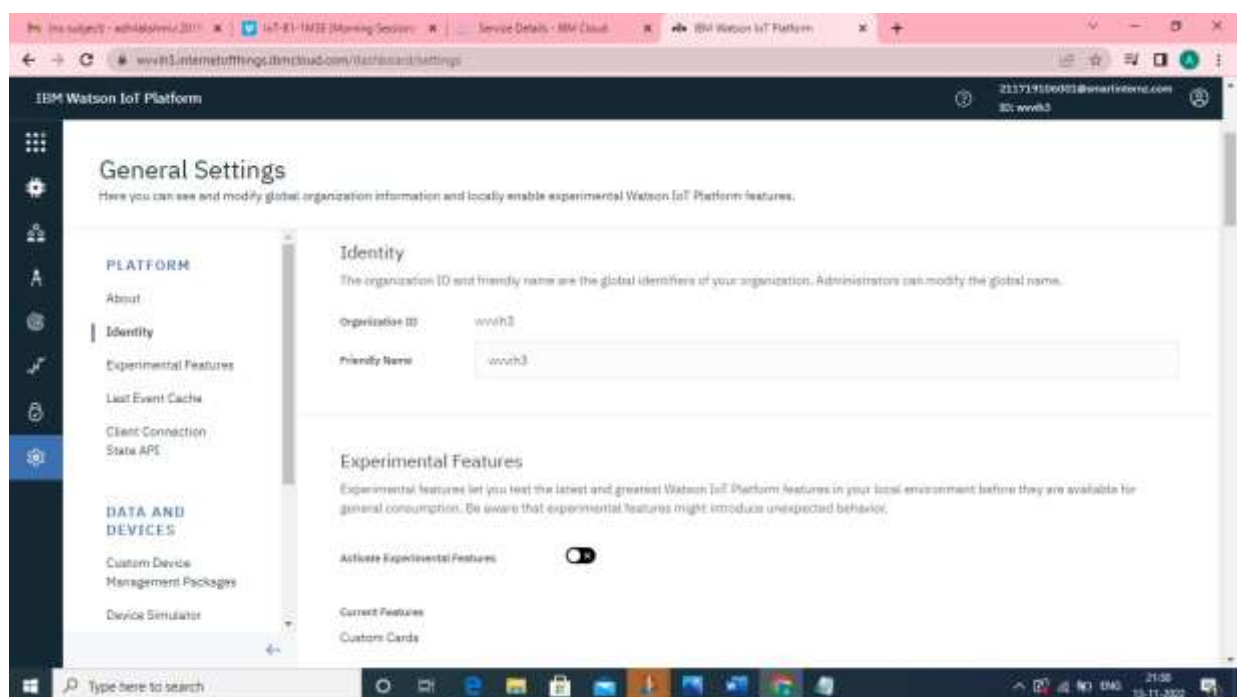
3. Click on the catalog



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 'Device Information' with the following text: 'Device types group devices that have similar characteristics, such as model number, firmware version, or location. Give the device type a unique name and a description that identifies characteristics that are shared by devices of this type.' Below this text, there are three input fields: 'Type' (with a dropdown menu showing 'Device' and 'Gateway'), 'Name' (with a placeholder 'Enter Name'), and 'Description' (with a placeholder 'Enter Description'). The 'Name' field has a note below it: '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.'

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' (completed), 'Device Information' (selected), 'Security', and 'Summary'. Below the progress bar, there is a text box for 'Device Information' with the following text: 'You can modify the default device information and enter more information about the device for identification purposes.' Below this text, there are two columns of input fields. The left column contains: 'Serial Number' (placeholder 'Enter Serial Number'), 'Model' (placeholder 'Enter Model'), 'Description' (placeholder 'Enter Description'), and 'Hardware Version' (placeholder 'Enter Hardware Version'). The right column contains: 'Manufacturer' (placeholder 'Enter Manufacturer'), 'Device Class' (placeholder 'Enter Device Class'), 'Firmware Version' (placeholder 'Enter Firmware Version'), and 'Descriptive Location' (placeholder 'Enter Descriptive Location'). At the bottom of the form, there is a button labeled 'Add Metadata' with a plus icon.

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

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 fields is a button labeled 'Add Metadata' with a plus icon. The bottom of the screen shows the Windows taskbar with the date 15-11-2022.

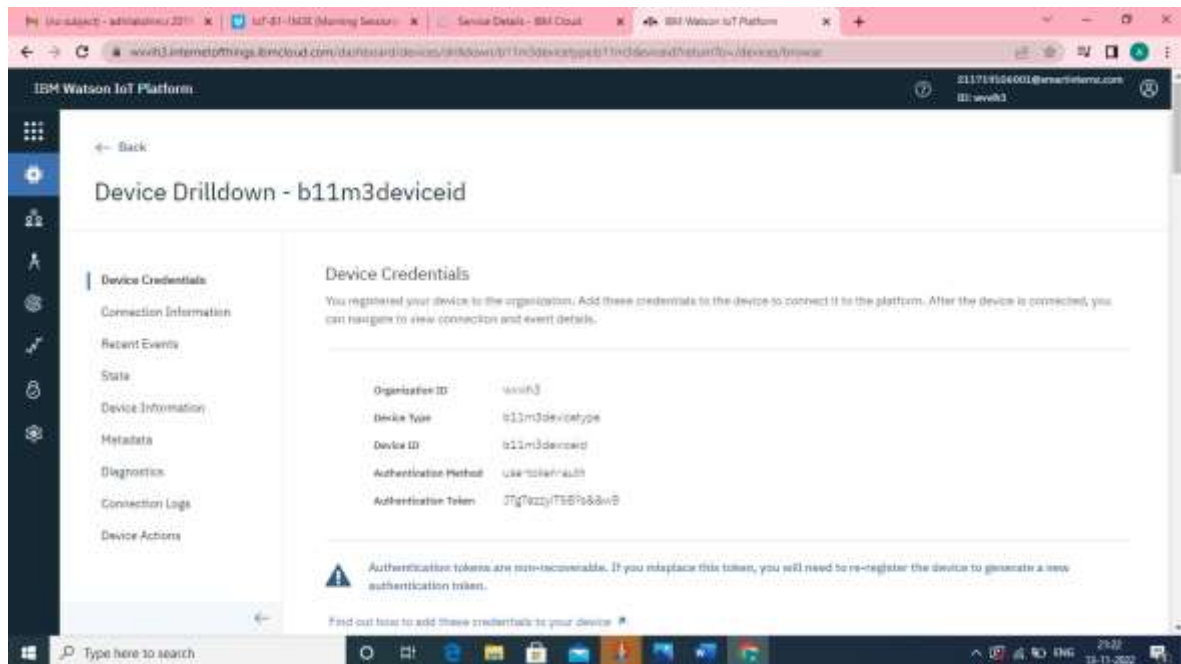
9. Clicking on next it goes to the summary of the device then click finish

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The progress bar indicates the following steps: Identity (completed), Device Information (completed), Security (completed), and Summary (current step). The 'Summary' section displays the following information:

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

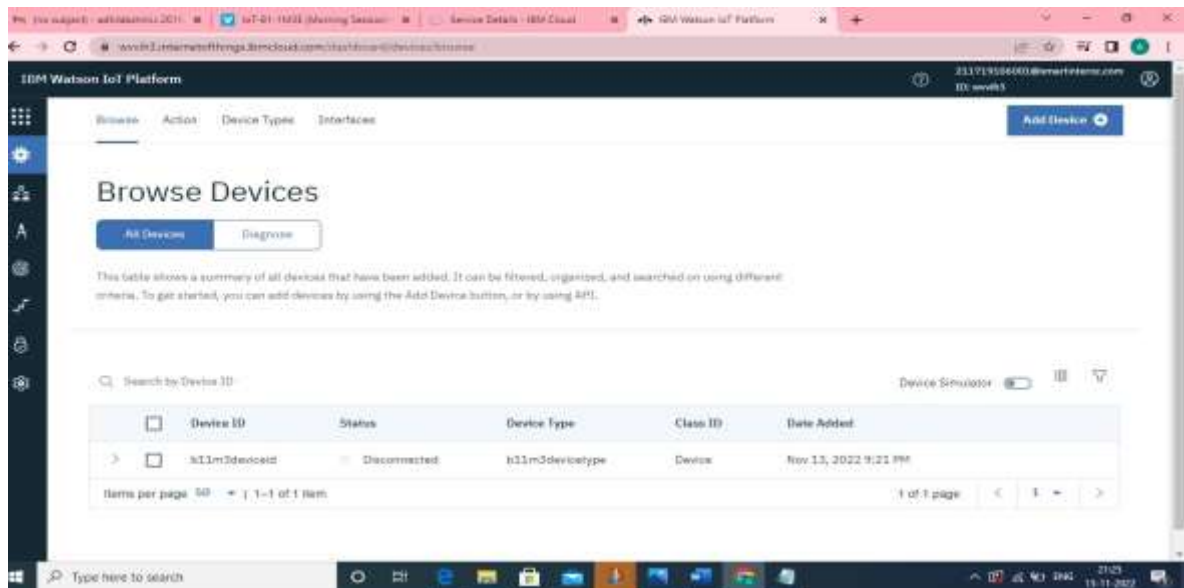
Below the summary is a button labeled 'View Metadata'. At the bottom right of the wizard are two buttons: 'Back' and 'Finish'. The bottom of the screen shows the Windows taskbar with the date 15-11-2022.

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

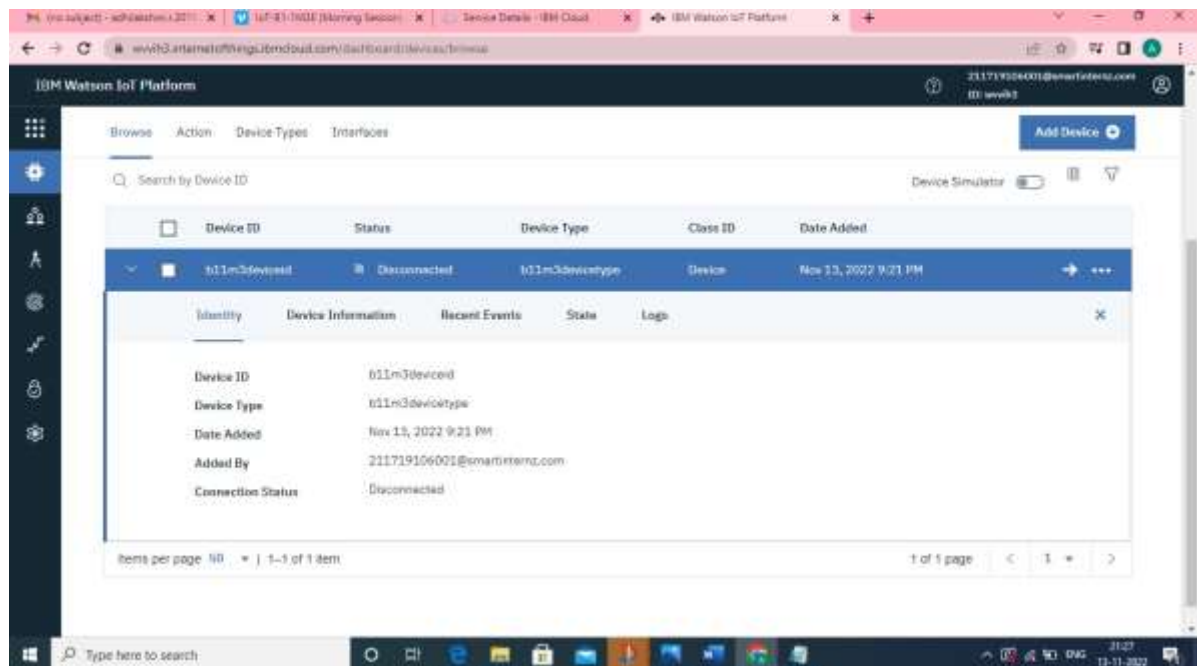


11. Save the details of the device as the authentication tokens are nonrecoverable and if misplaced then we have to create a new one

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



13.



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