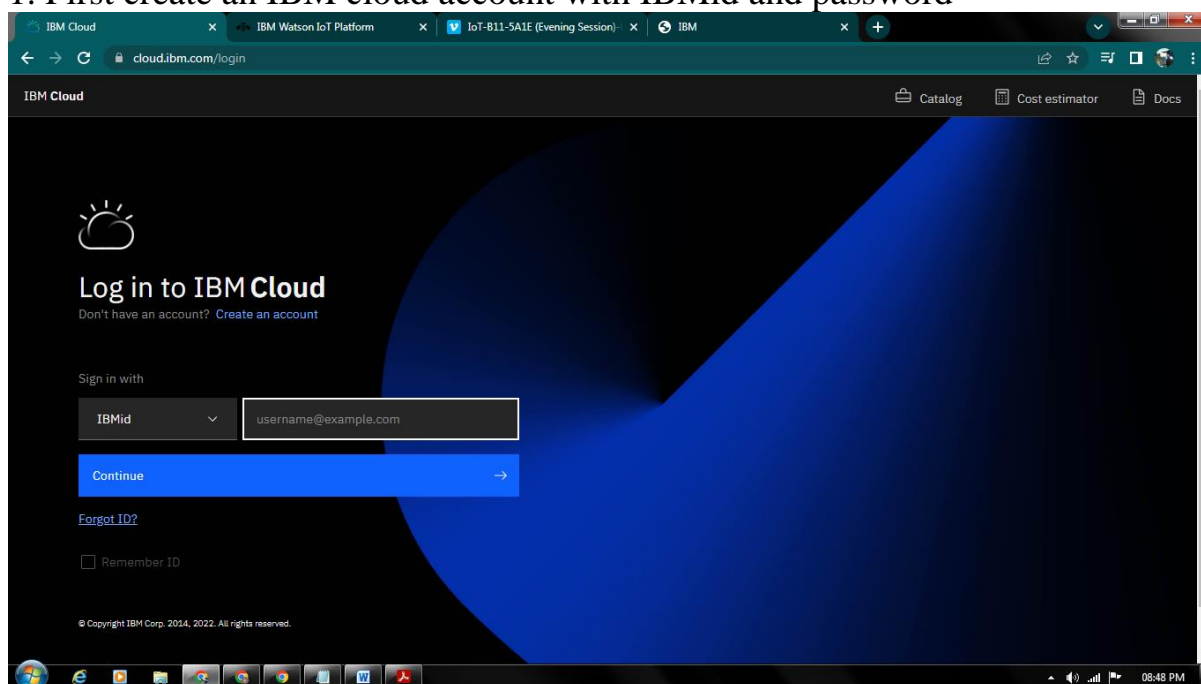


CREATE IBM WATSON IOT PLATFORM AND DEVICE

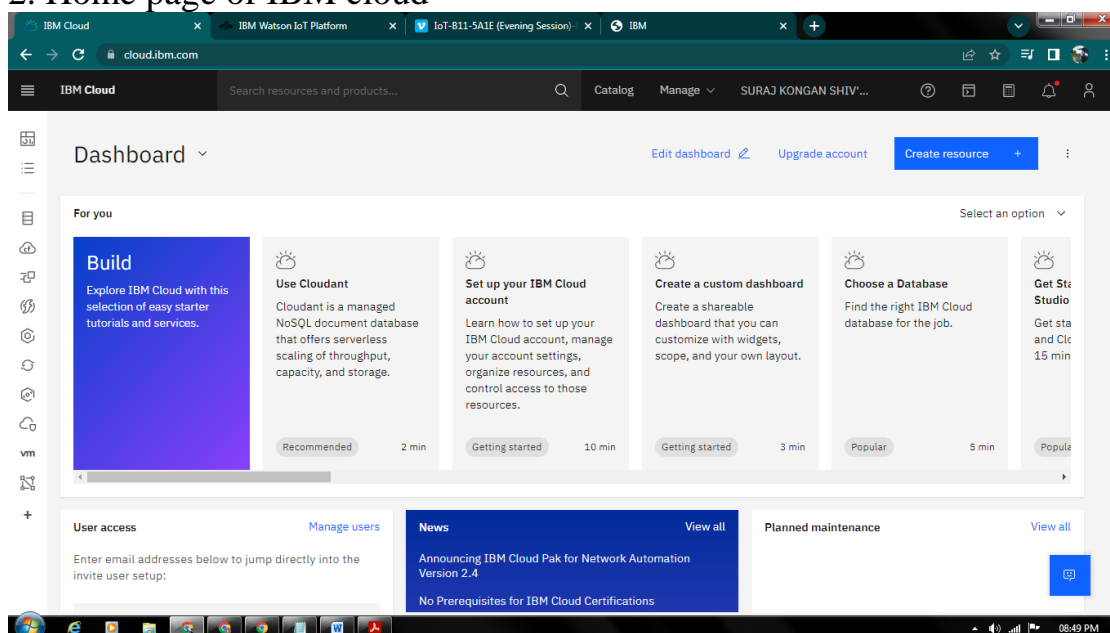
Date	26-10-2022
Team ID	PNT2022TMID18177
Project Name	Project - IOT based safety gadget for child safety monitoring and notification
Maximum Marks	4 Marks

STEPS:

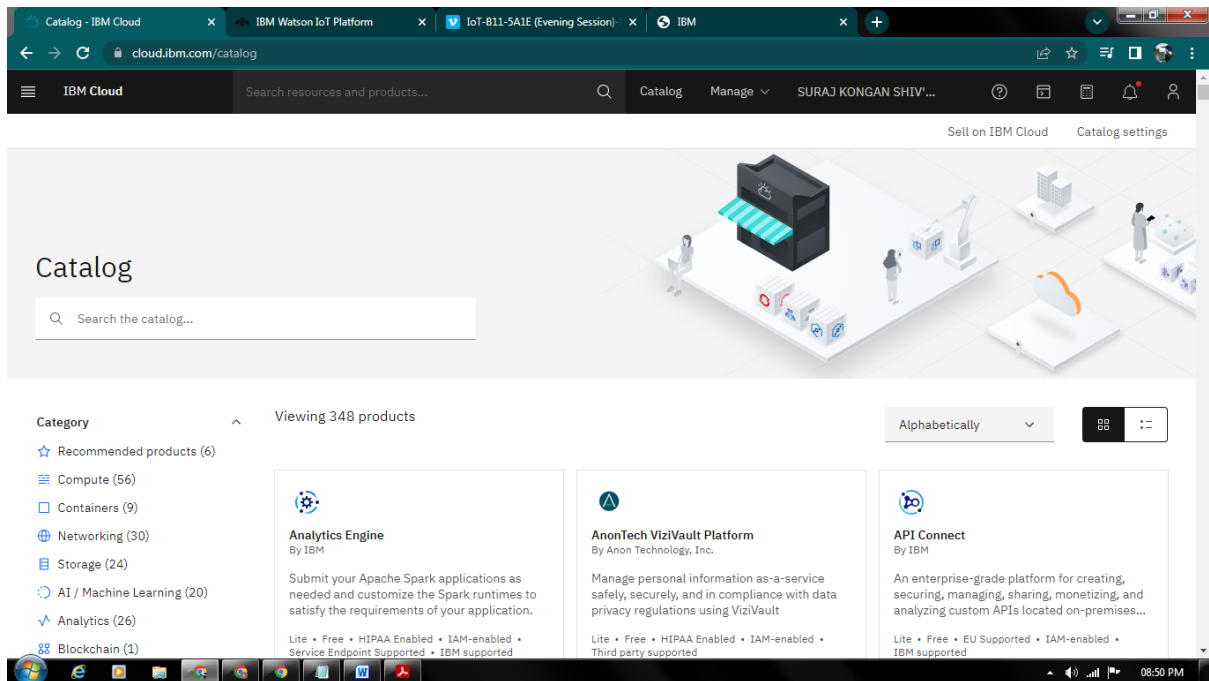
1. First create an IBM cloud account with IBMid and password



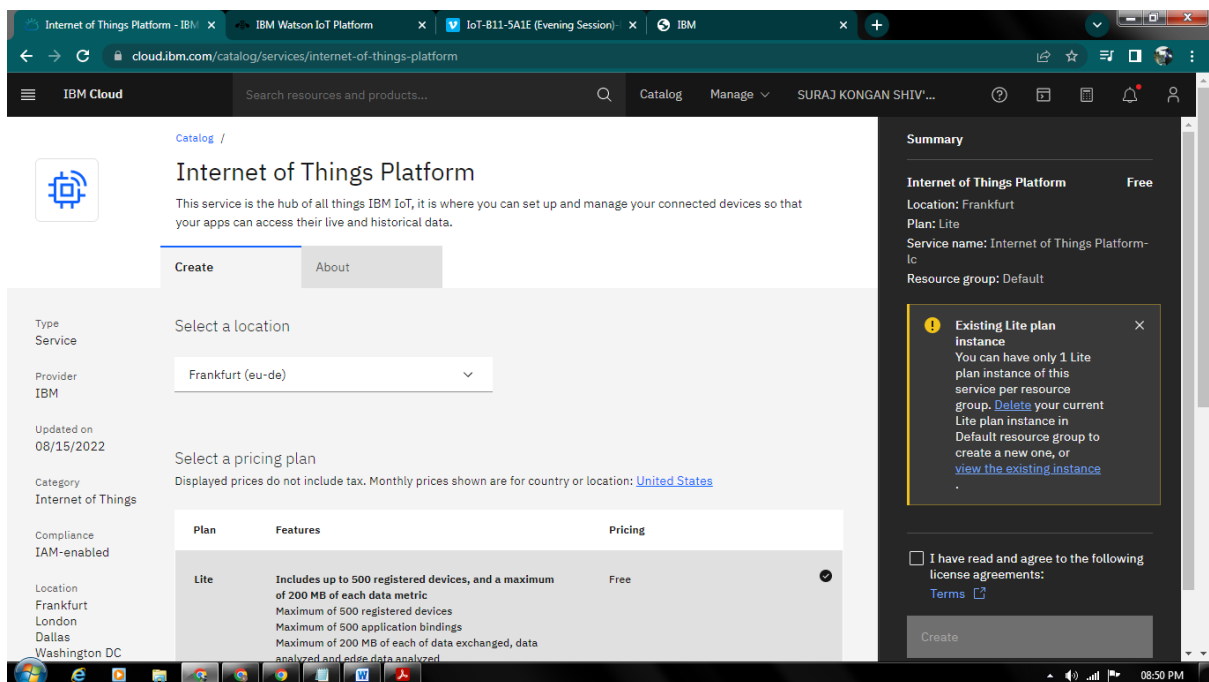
2. Home page of IBM cloud



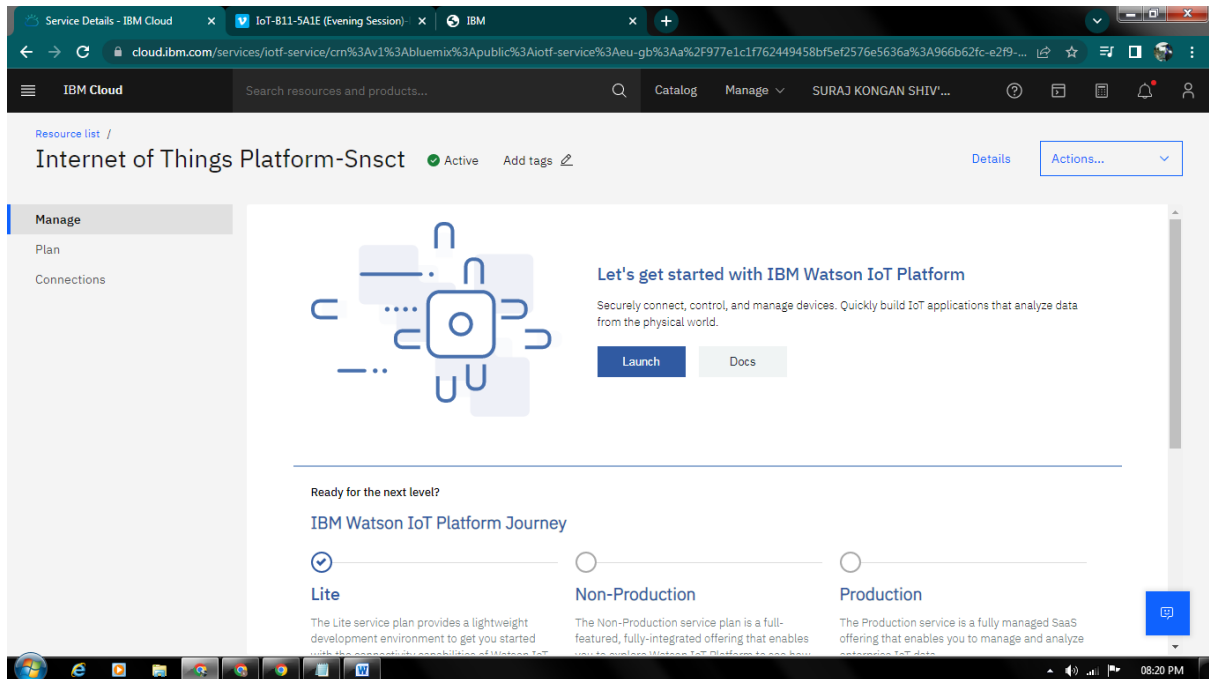
3. Click on the catalog on the top. Search for INTERNET OF THINGS PLATFORM



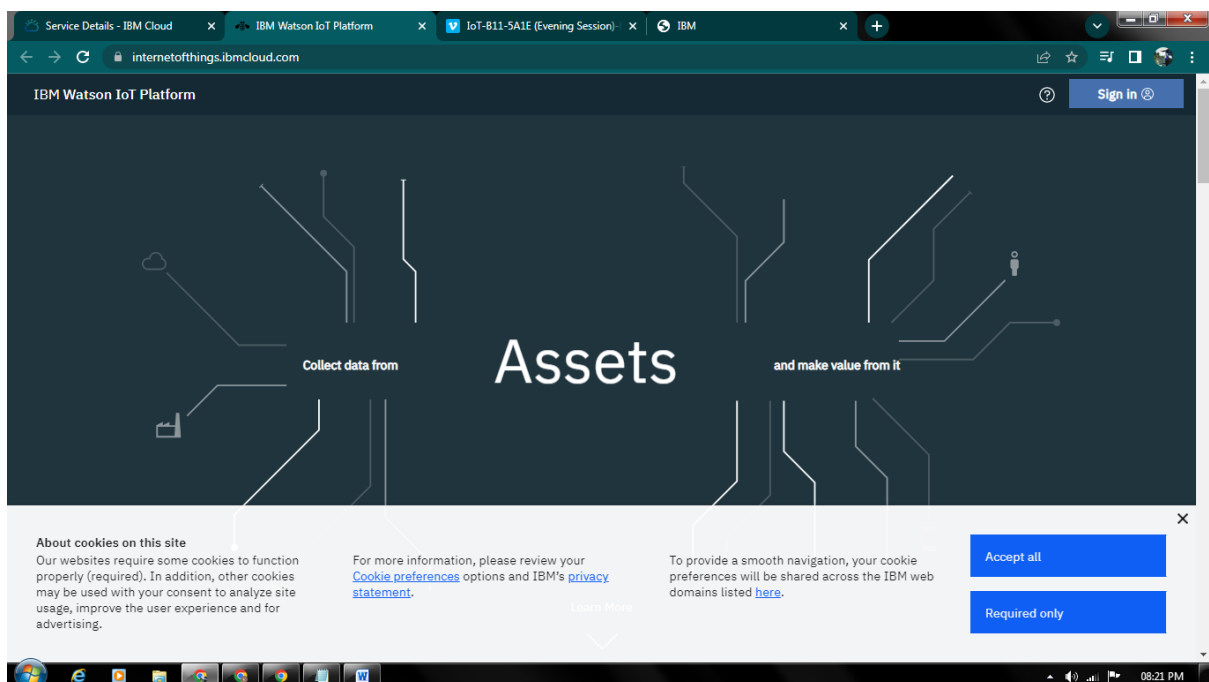
4. Enter the location and in the configure your resource type the service name and choose the plan, tick the agree with agreements and then click on create



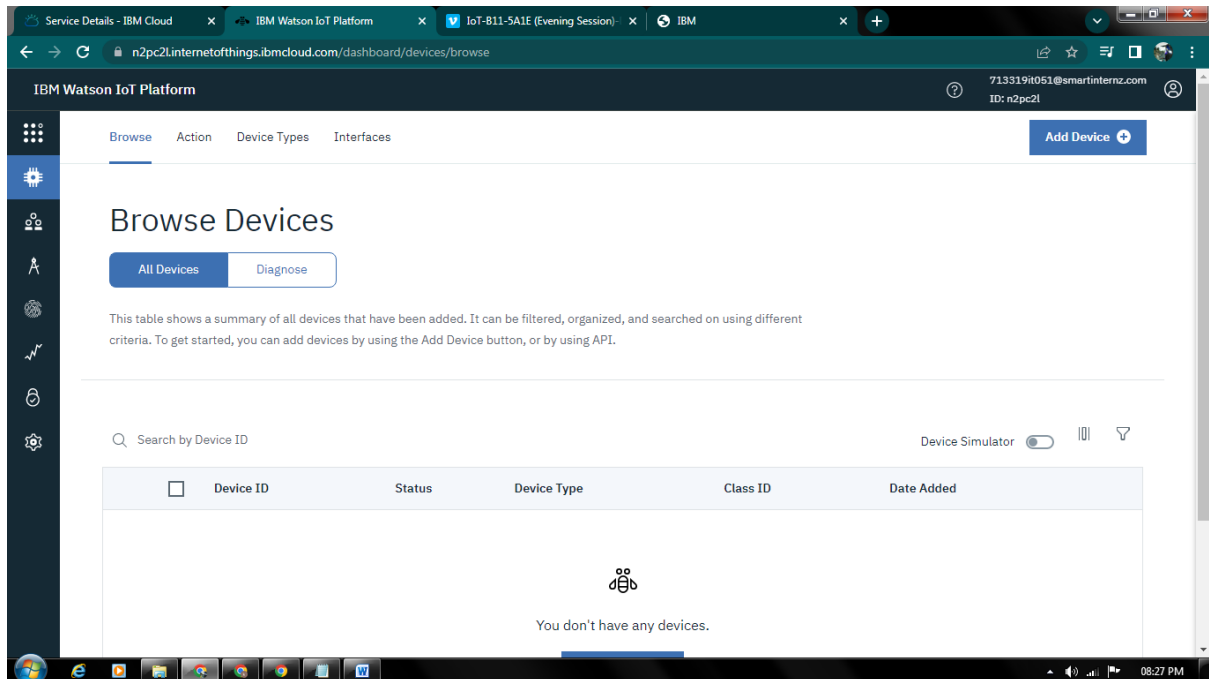
5. Internet of Things Platform Child_safety will be created, where there are different options like manage, plan, and connection (manage is for launch, Plan gives us the idea about the payment package and its upgrades, and lastly the connection is for to connect IoT with other servies) .Click on launch.



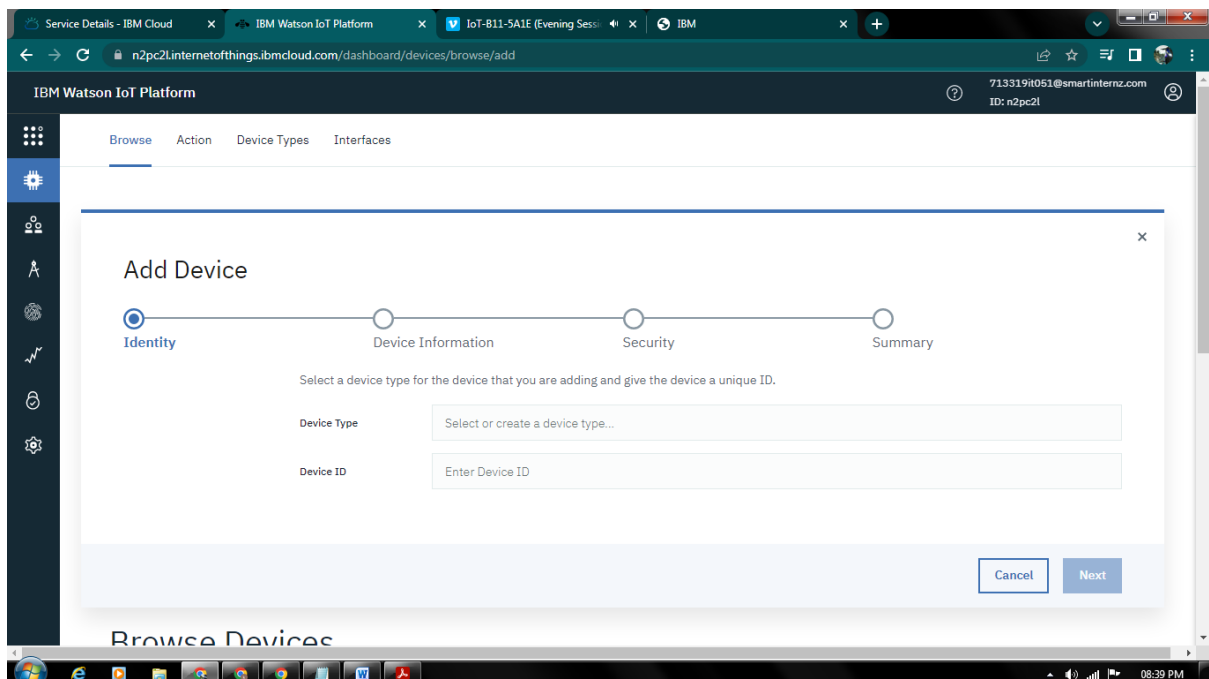
6. Now you need to sign in. Enter the details to sign in to the Watson Cloud to create a device.



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 'Device Information' page in the IBM Watson IoT Platform. The page is part of a multi-step process with four tabs: Identity, Device Information, Security, and Summary. The 'Device Information' tab is currently active. It contains several input fields for device details:

- 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 these fields is a button labeled 'Add Metadata +'. At the bottom right of the form are 'Back' and 'Next' buttons. The page header shows the user is logged in as '713319it051@smartinternz.com' with ID 'n2pc2l'.

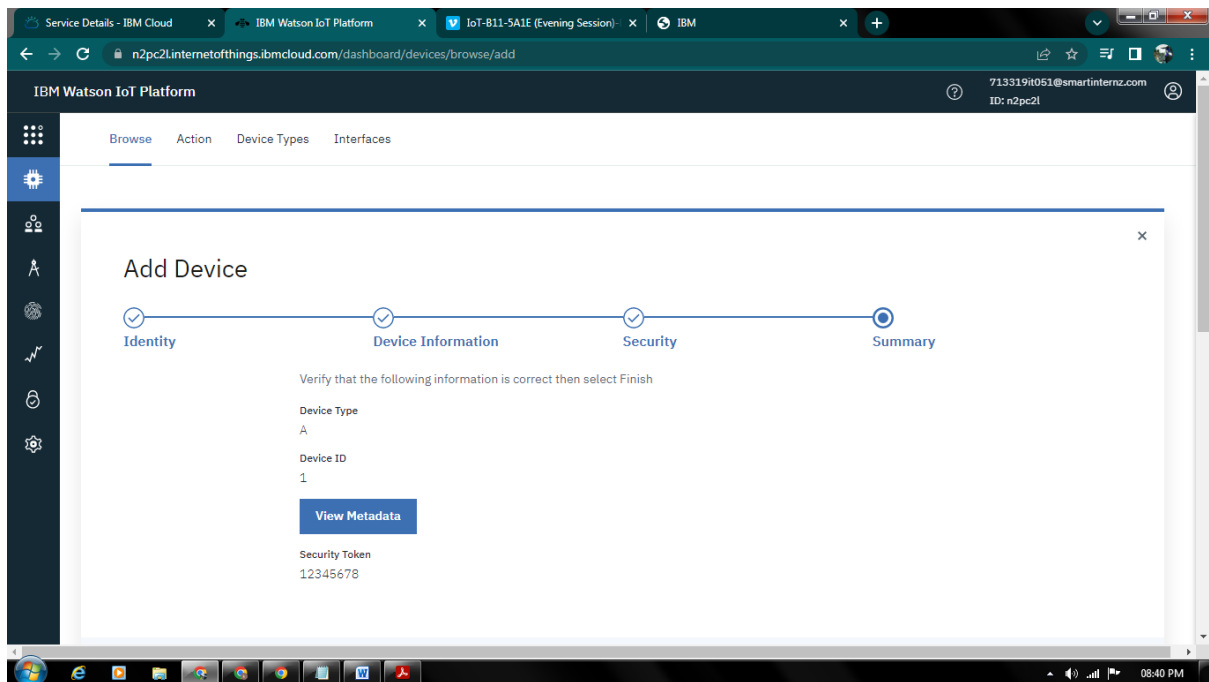
10. Clicking next it goes to the security where we do authentication token id.

The screenshot shows the 'Security' page in the IBM Watson IoT Platform. The 'Security' tab is now active, and the 'Next' button from the previous page has been clicked. The page presents two options for selecting a device authentication token:

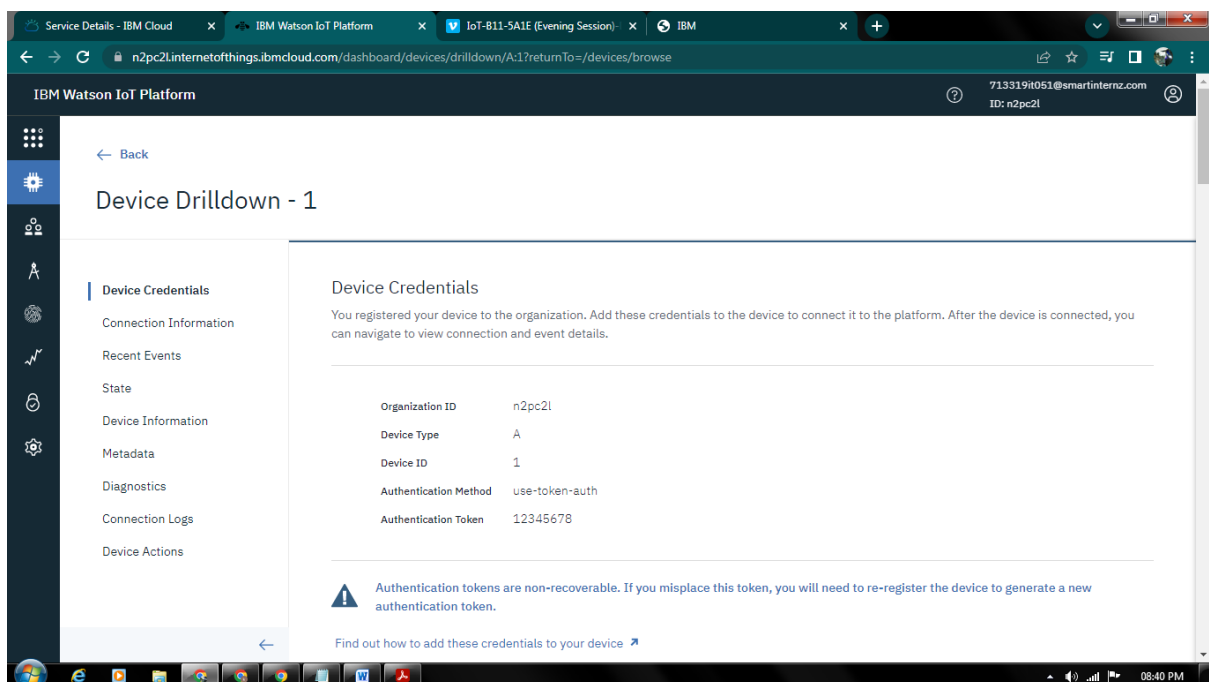
- Auto-generated authentication token (default):** Allow the service to generate an authentication token for you. Tokens are 18 characters and contain a mix of alphanumeric characters and symbols. The token is returned to you at the end of the device registration process.
- Self-provided authentication 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 input field labeled 'Authentication Token' with the placeholder text 'Enter an optional token'. Below this field, a note states: 'Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored.' and 'Authentication token are encrypted before we store them.'

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. Safe 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.

The screenshot displays the IBM Watson IoT Platform interface. The main heading is "Browse Devices". Below the heading are two buttons: "All Devices" (selected) and "Diagnose". A descriptive text states: "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."

A search bar labeled "Search by Device ID" is present. To the right of the search bar is a "Device Simulator" toggle switch, which is currently turned on. Below the search bar is a table with the following columns: Device ID, Status, Device Type, Class ID, and Date Added.

Device ID	Status	Device Type	Class ID	Date Added
1	Disconnected	A	Device	Oct 29, 2022 8:41 PM

Below the table, there is a pagination bar showing "Items per page 50" and "1-1 of 1 item". To the right of the pagination bar, it says "1 of 1 page" with navigation arrows.

At the bottom of the page, there is a status bar that reads "0 Simulations running".