

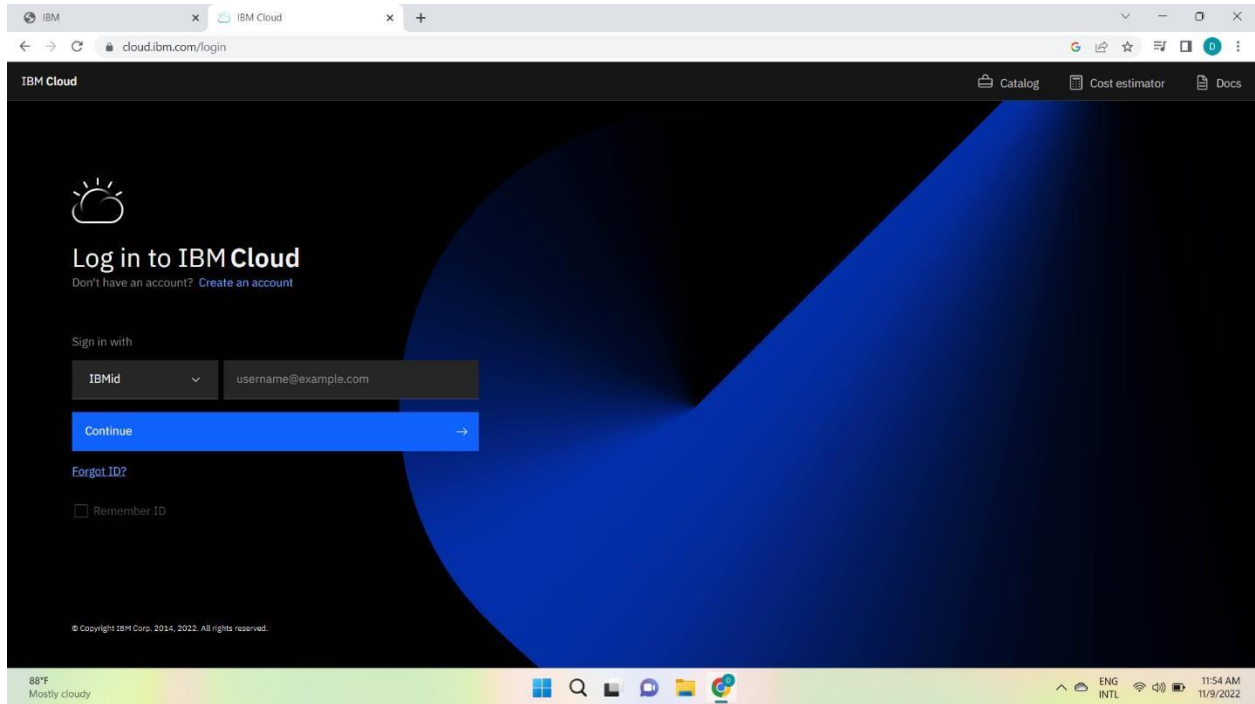
DELIVERY PLAN SPRINT – 1

DATE	14 November 2022
TEAM ID	PNT2022TMID19355
PROJECT NAME	IOT BASED SAFETY GADGETS FOR CHILD SAFETY

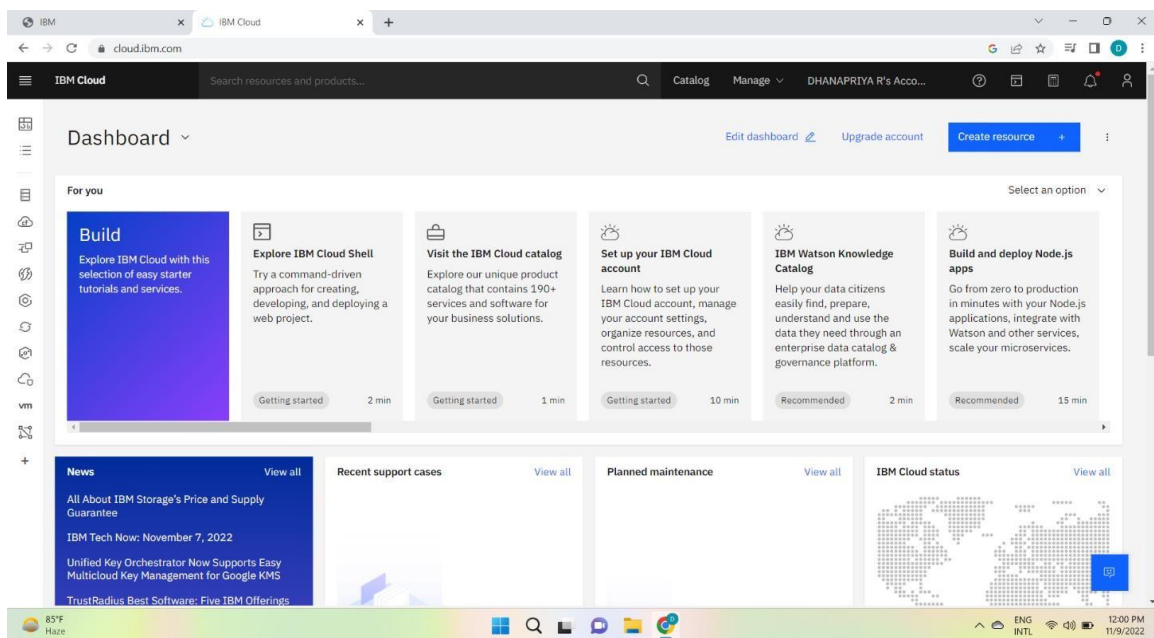
To create the IBM Watson IOT platform and device.

Steps:

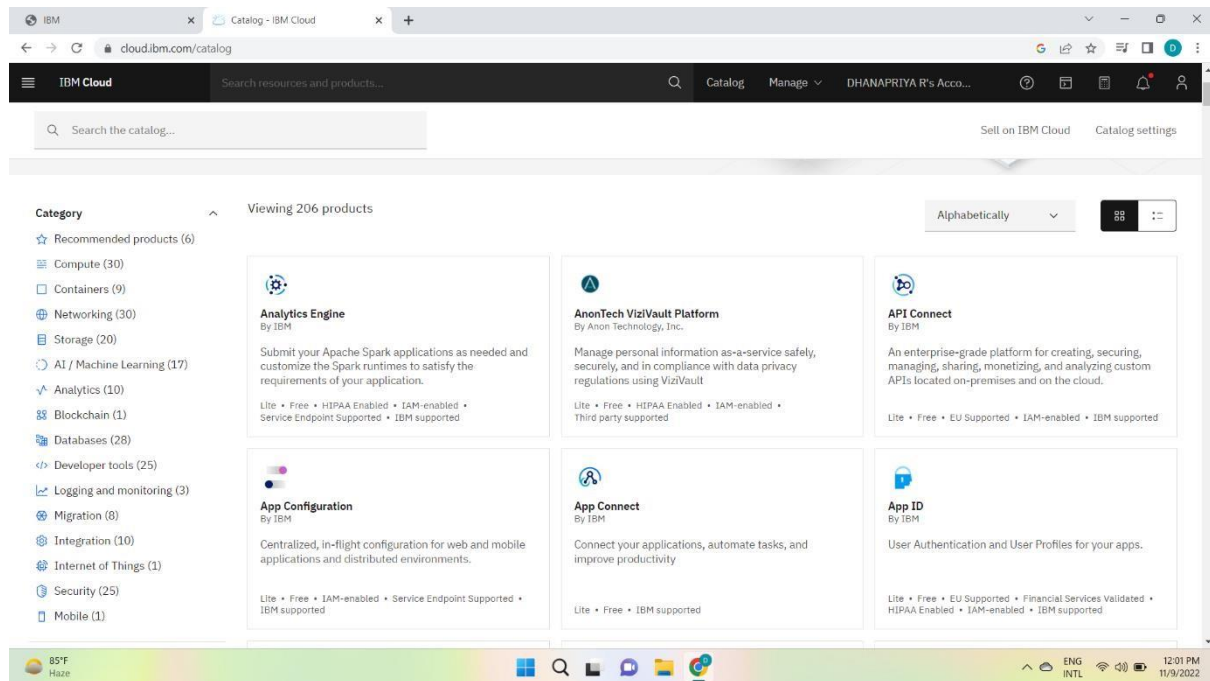
1. Create an IBM cloud account with the individual IBM id and password



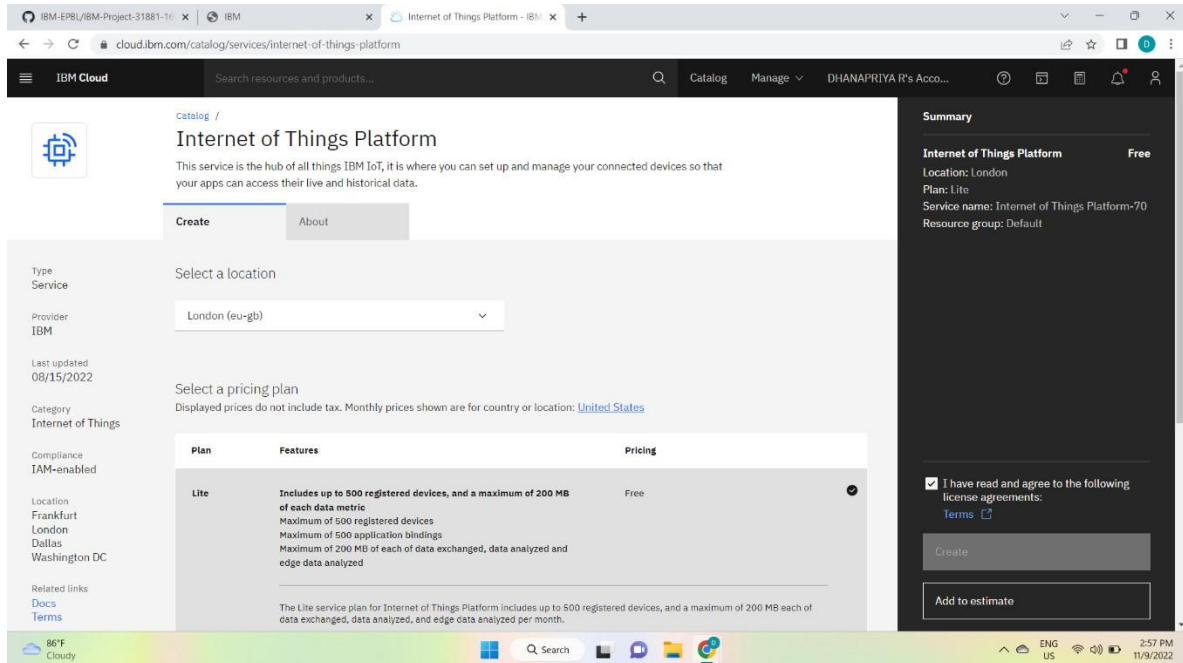
2.Home page of “IBM cloud”



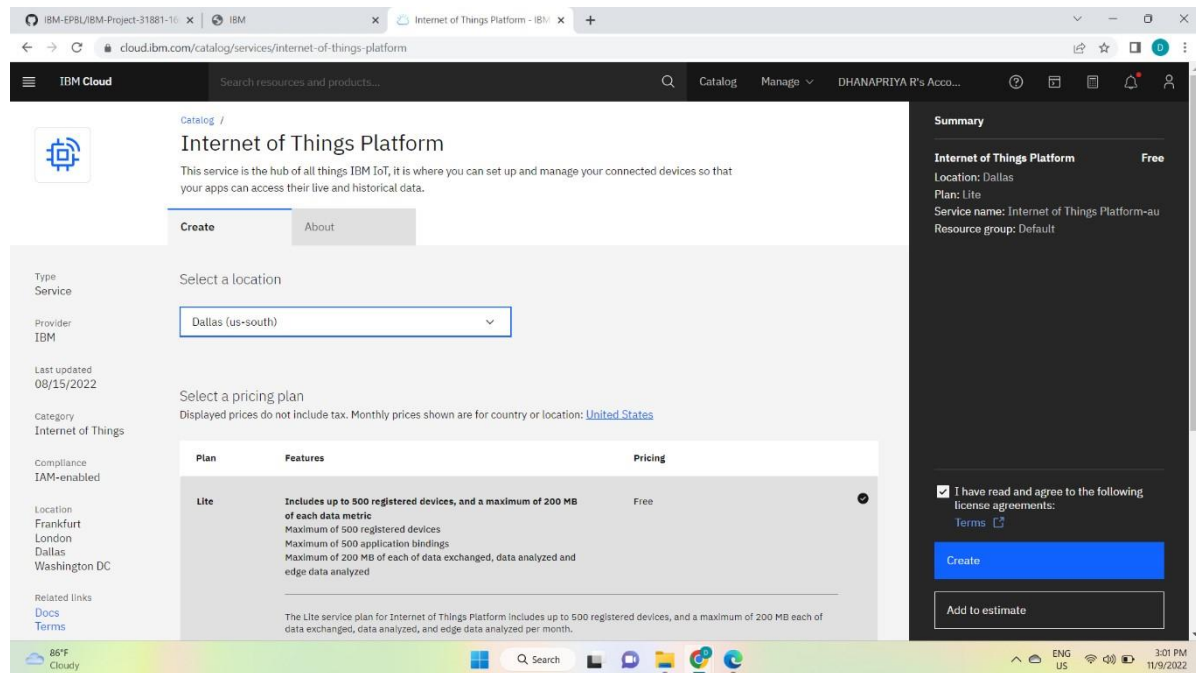
3. Click on “Catalog” on the top



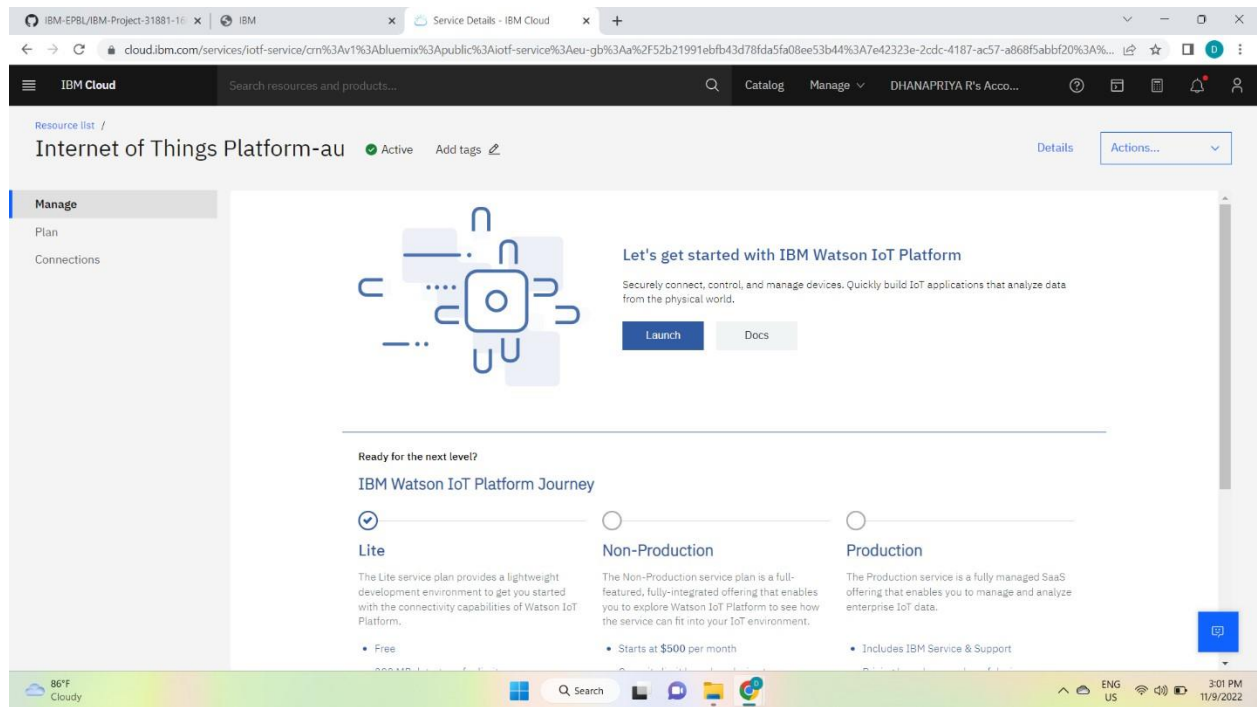
4. Click on “Internet of Things” in the category



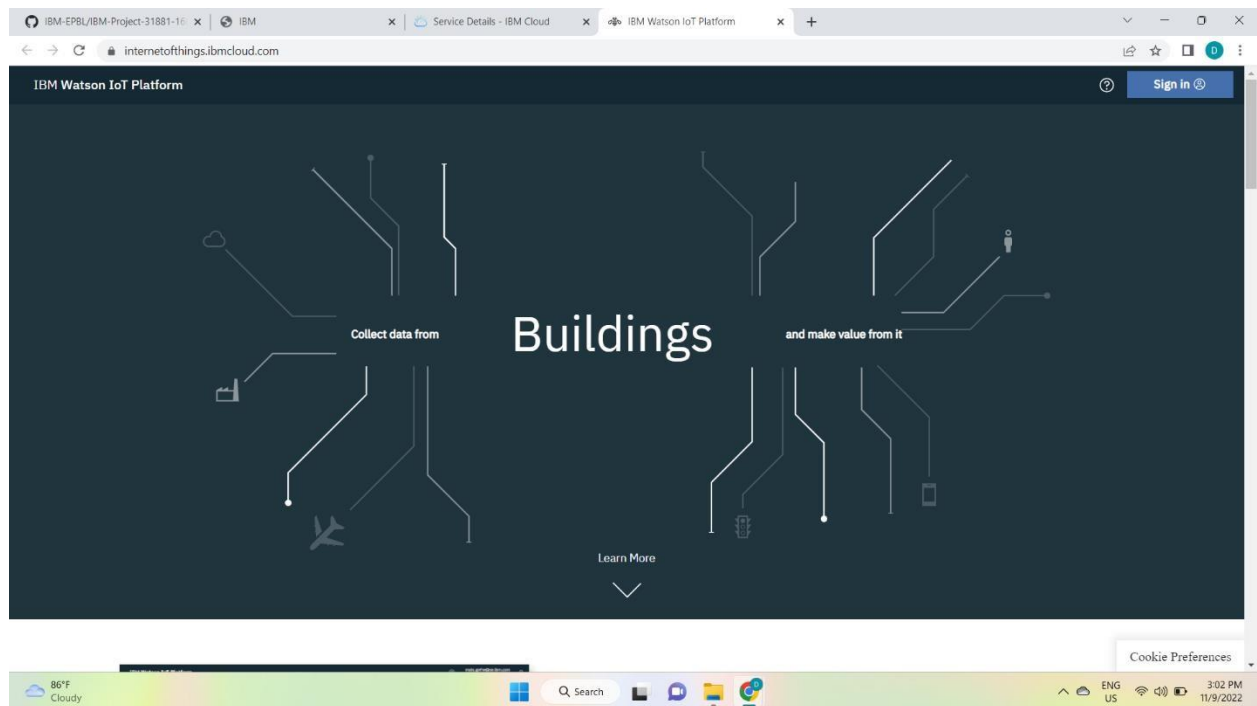
5. Select the “location” and then click on “Create”



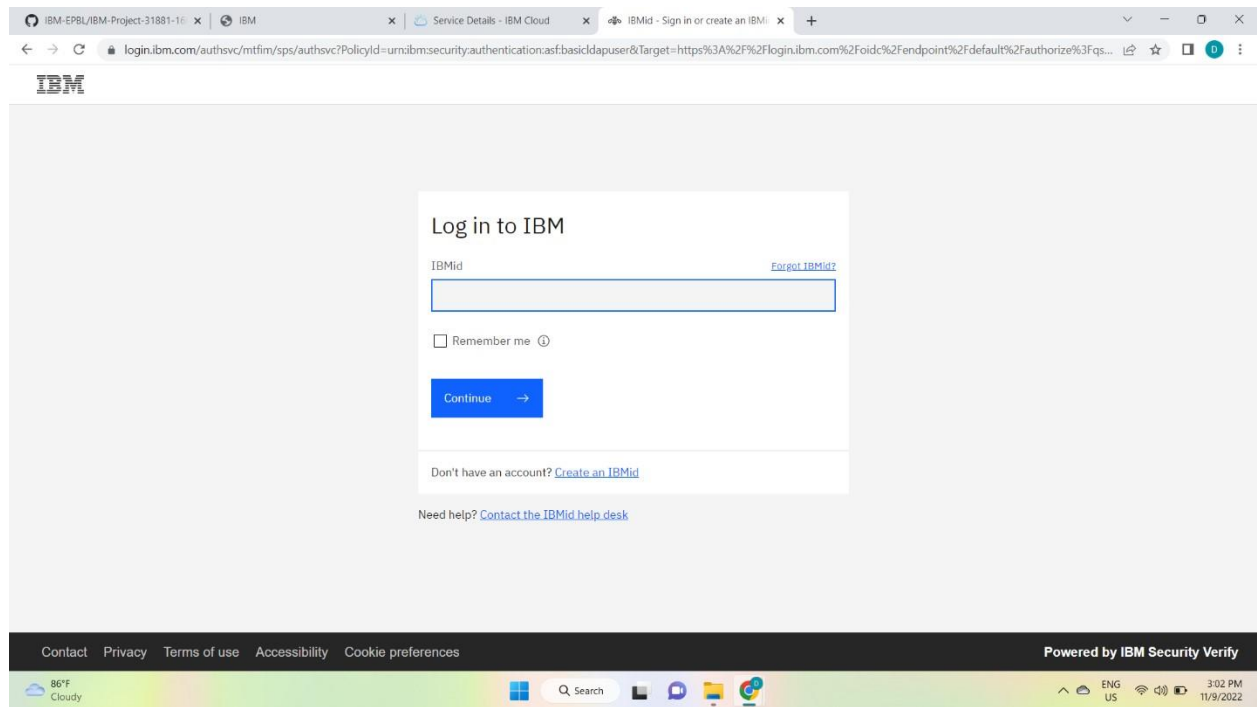
Step 6 : click on the launch .



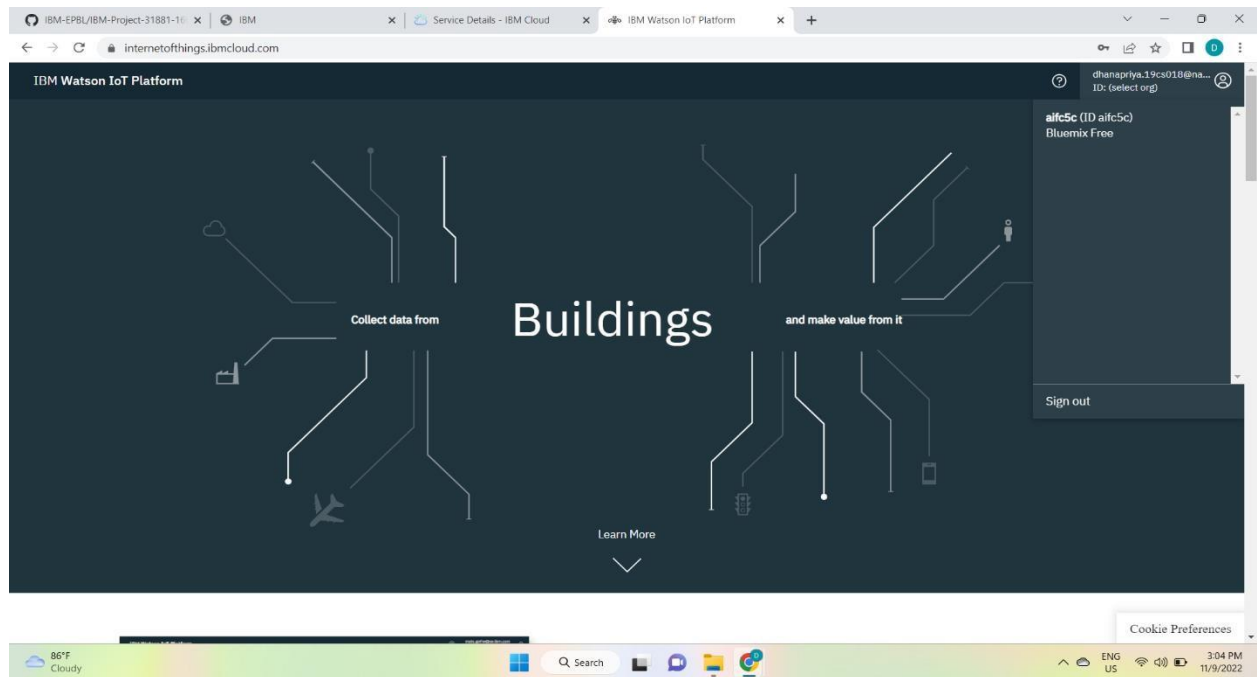
Step 7: Click on sign in.



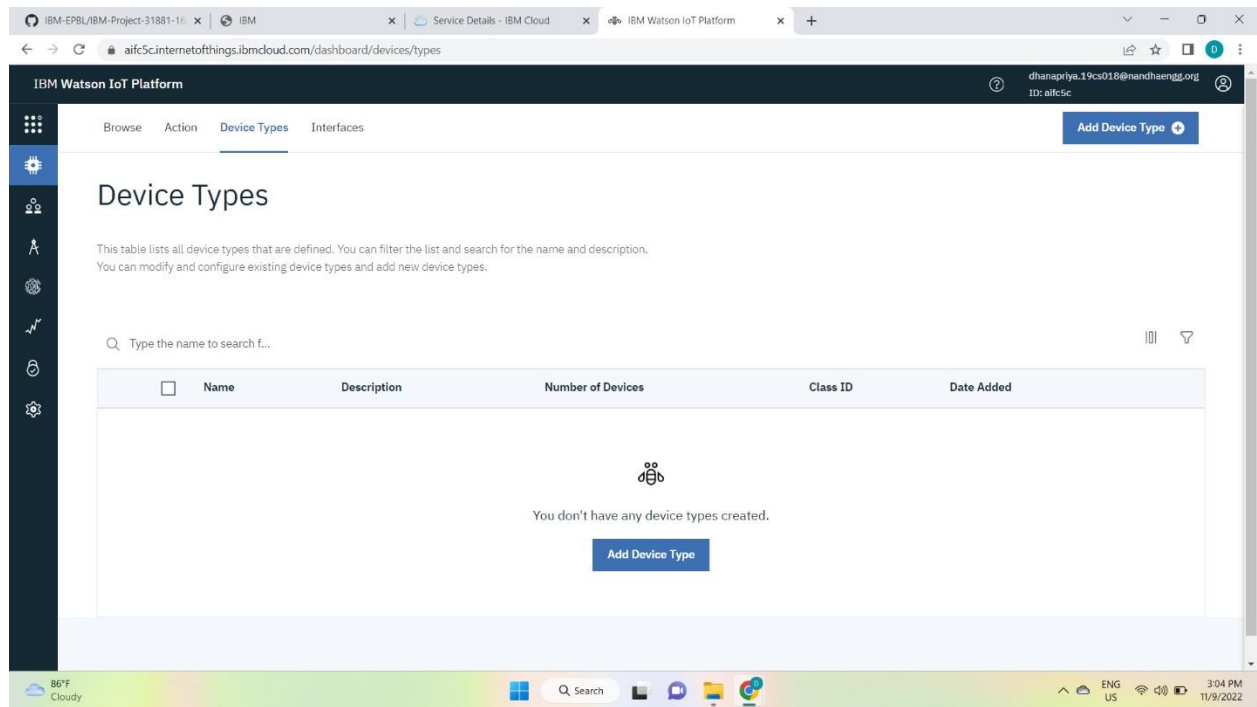
Step 8: login to ibm using ibm cloud credentials.



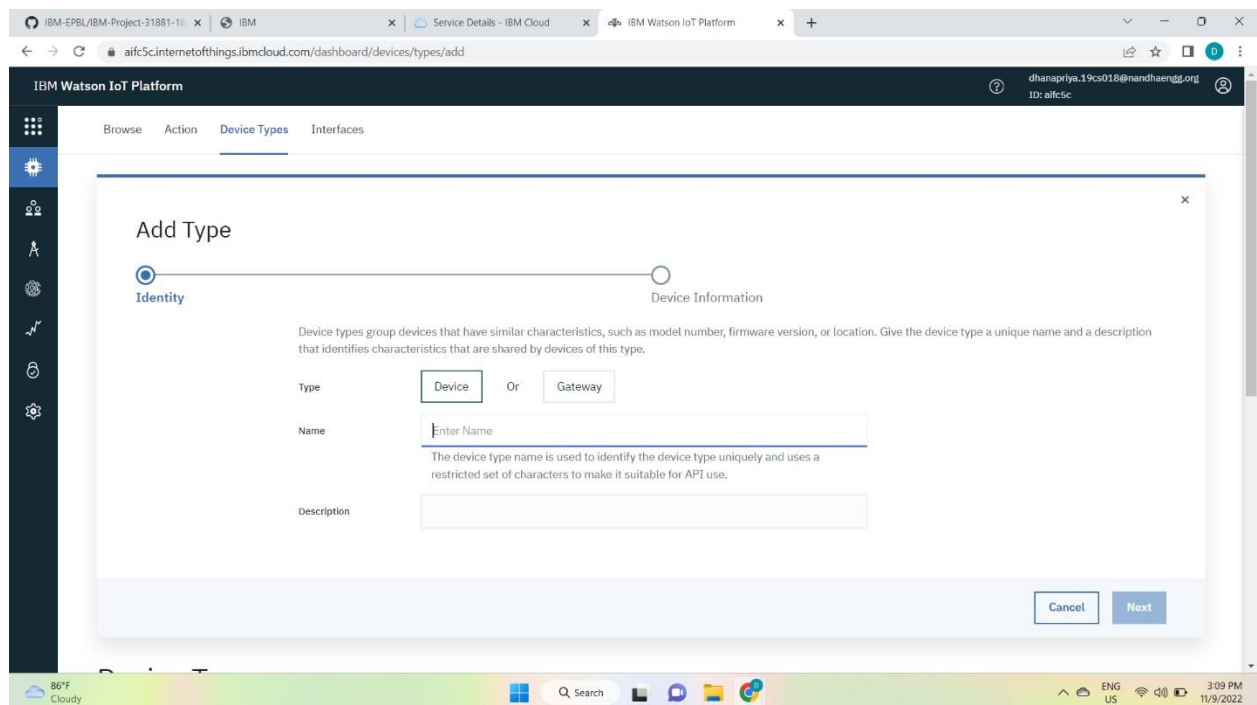
Step 9: select the cloud Id.



Step 10: Click on add device type.



Step 11:create a “Device name”.



Step 12: Click “Finish”.

The screenshot shows the 'Add Type' dialog box in the IBM Watson IoT Platform. The dialog has a progress bar with two steps: 'Identity' (completed) and 'Device Information' (current step). Below the progress bar, a message states: 'These attributes will be used as a template for new devices that are assigned this device type'. There is an 'Edit Metadata' link. The form contains two columns of input fields:

Attribute	Input Field
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 right of the dialog are 'Back' and 'Finish' buttons. The background shows the 'Device Types' page with a 'Device Types' header.

The screenshot shows the 'Register Devices, Define Interfaces' page in the IBM Watson IoT Platform. A message at the top states: 'You added the new device type: device_name'. Below this, there are tabs for 'Register Device' and 'Advanced Flow'. The 'Register Device' tab is active. The page has a heading 'Optional Register Devices, Define Interfaces' and a subheading 'Now that you added a device type, you can register and connect devices for this type.' There is a 'Register Devices' button. On the right side, there is a large grey area with a gear icon. At the bottom right, there are 'Cancel' and 'Next' buttons. The background shows the 'Device Types' page with a 'Device Types' header.

Step 13: device type is created.

Step 14: Now create “Device Id”.

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The 'Identity' step is active, indicated by a blue circle and a checkmark. The wizard consists of four steps: Identity, Device Information, Security, and Summary. Below the step indicator, a message reads: '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 the placeholder text 'device_name' and 'Device ID' with the placeholder text 'device_id'. At the bottom right of the form are 'Cancel' and 'Next' buttons. Below the form is a 'Browse Devices' section with 'All Devices' and 'Diagnose' buttons. The browser's address bar shows the URL 'aifc5c.internetofthings.ibmcloud.com/dashboard/devices/browse/add'. The user's profile 'dhanapriya.19cs018@nandhaengg.org' and ID 'aifc5c' are visible in the top right corner. The Windows taskbar at the bottom shows the date as 11/9/2022 and the time as 3:10 PM.

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform, now at the 'Device Information' step. The 'Device Information' step is active, indicated by a blue circle and a checkmark. The wizard consists of four steps: Identity, Device Information, Security, and Summary. Below the step indicator, a message reads: 'You can modify the default device information and enter more information about the device for identification purposes.' There are several input fields arranged in two columns. The left column includes 'Serial Number' (placeholder: 'Enter Serial Number'), 'Model' (placeholder: 'Enter Model'), 'Description' (placeholder: 'Enter Description'), and 'Hardware Version' (placeholder: 'Enter Hardware Version'). The right column includes '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 left of the form is an 'Add Metadata' button with a plus icon. At the bottom right are 'Back' and 'Next' buttons. The browser's address bar shows the URL 'aifc5c.internetofthings.ibmcloud.com/dashboard/devices/browse/add'. The user's profile 'dhanapriya.19cs018@nandhaengg.org' and ID 'aifc5c' are visible in the top right corner. The Windows taskbar at the bottom shows the date as 11/9/2022 and the time as 3:10 PM.

Step 15: Click on “Next” .

Step 16: Give a “Token number “.

IBM Watson IoT Platform

Browse Action Device Types Interfaces

Add Device

Identity Device Information Security Summary

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.

Authentication Token: 00001111

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.

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.

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IBM Watson IoT Platform

Browse Action Device Types Interfaces

Add Device

Identity Device Information Security Summary

Verify that the following information is correct then select Finish

Device Type

device_name

Device ID

device_id

View Metadata

Security Token

00001111

Back Finish

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Step 17: click on “Finish”.

Step 18: Now change “Connection security”.

The screenshot shows the IBM Watson IoT Platform interface. The browser tabs include 'IBM-EPBL/IBM-Project-31881-16', 'IBM', 'Service Details - IBM Cloud', and 'IBM Watson IoT Platform'. The URL is 'aifc5c.internetofthings.ibmcloud.com/dashboard/security'. The user is logged in as 'dhanapriya.19cs018@nandhaengg.org' with ID 'aifc5c'. The page title is 'IBM Watson IoT Platform'. The main content area is titled 'Connection Security' and includes a 'Back' button, 'Close', and 'Save' buttons. The text states: 'Use the Connection Security policy to set the default security level that is applied to all devices. You can then add custom rules for specific devices.' Below this is the 'Default Rule' section, which says: 'Define the default connection security level to use for all device types that do not have custom rules defined.' A table shows the default rule:

Scope	Security Level	# of Devices
Default	TLS with Token Authentication	0 devices

Below the table is the 'Custom Rules' section, which says: 'You can define custom connection rules for specific device types. Custom rules overwrite the default rule for the specified device types.'

The screenshot shows the same IBM Watson IoT Platform interface as the previous one, but the 'Default Rule' has been changed. The 'Security Level' dropdown now shows 'TLS Optional'. The 'Save' button is highlighted in blue. The rest of the page content remains the same.

Step 19 : Select the security level to “TLS optional”.

Step 20: Thus the “Dashboard” created is shown.

