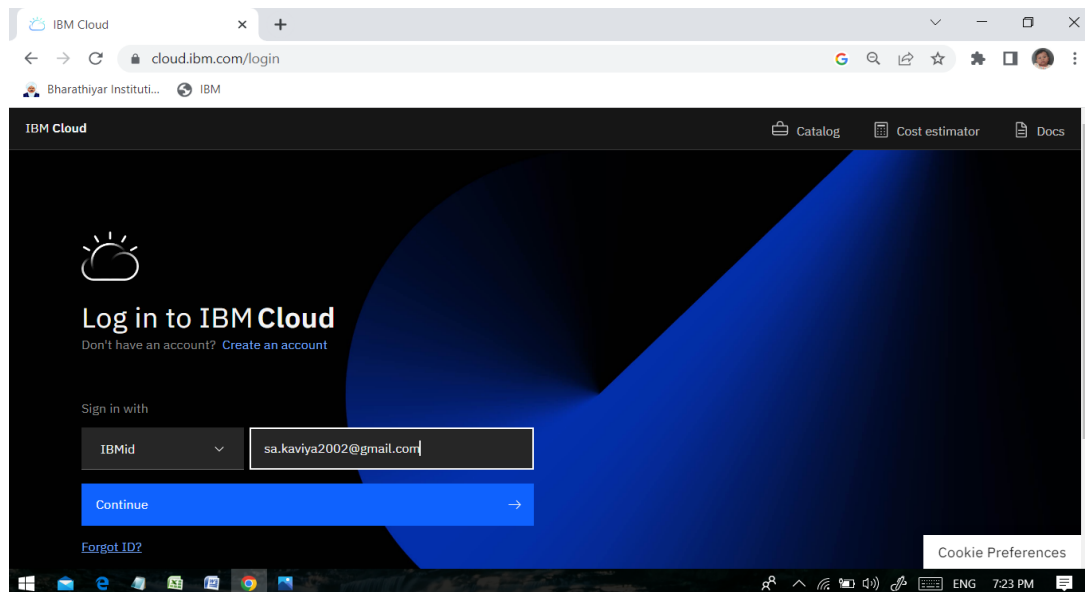


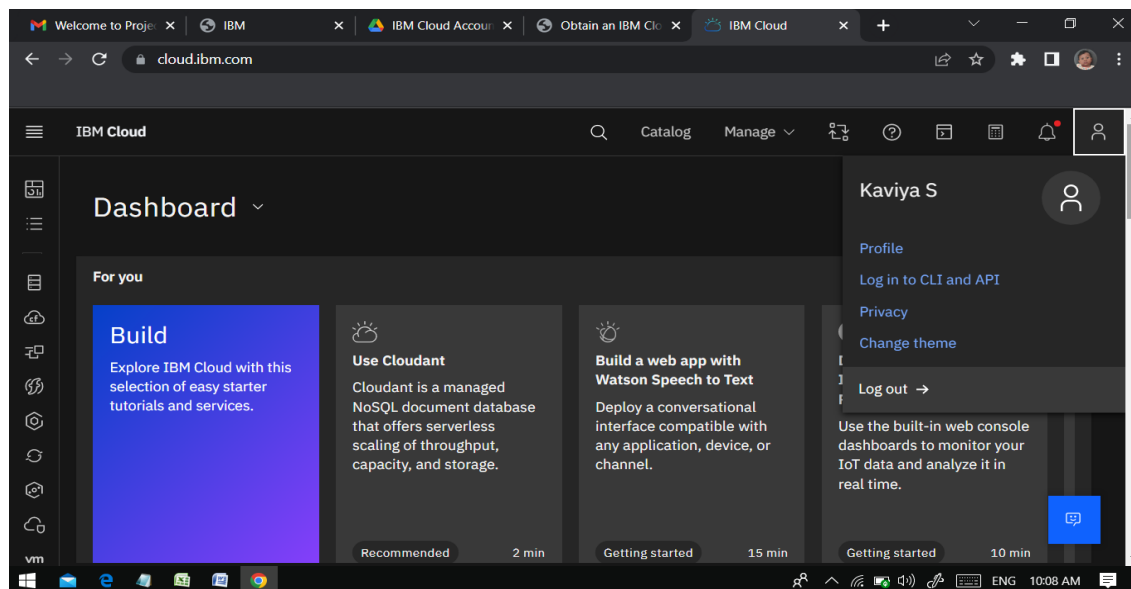
Date	8 November 2022
Team ID	PNT2022TMID41344
Project Name	Smart Farmer – Iot Enabled Smart Farming Application
Maximum Marks	4 Marks

STEPS

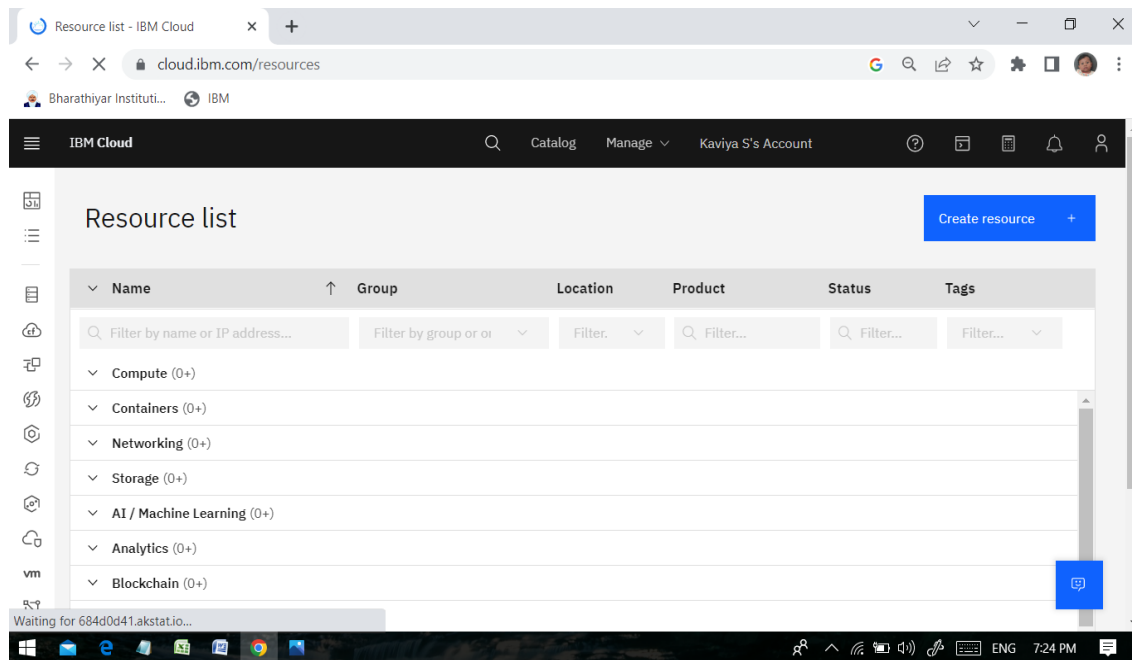
1.Firstly create an IBM cloud account with IBM ID and password



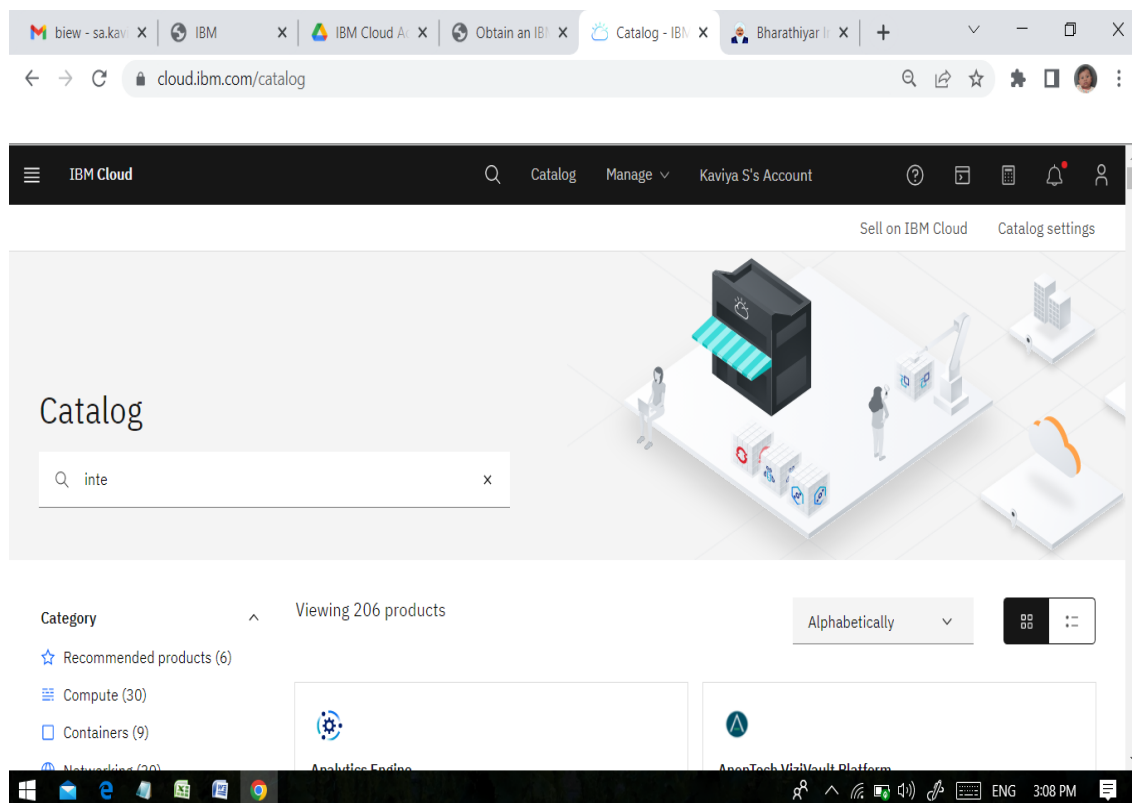
2.Home page of IBM cloud



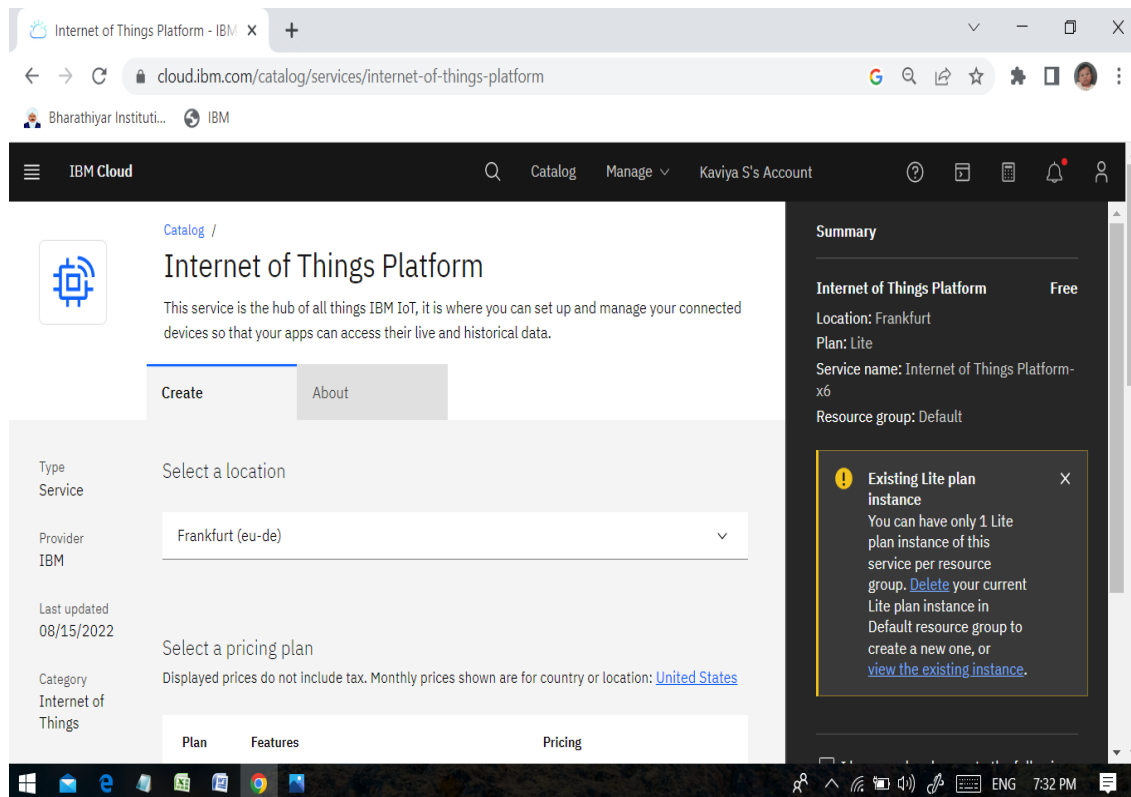
3.Click on the Resource list and search the iot.



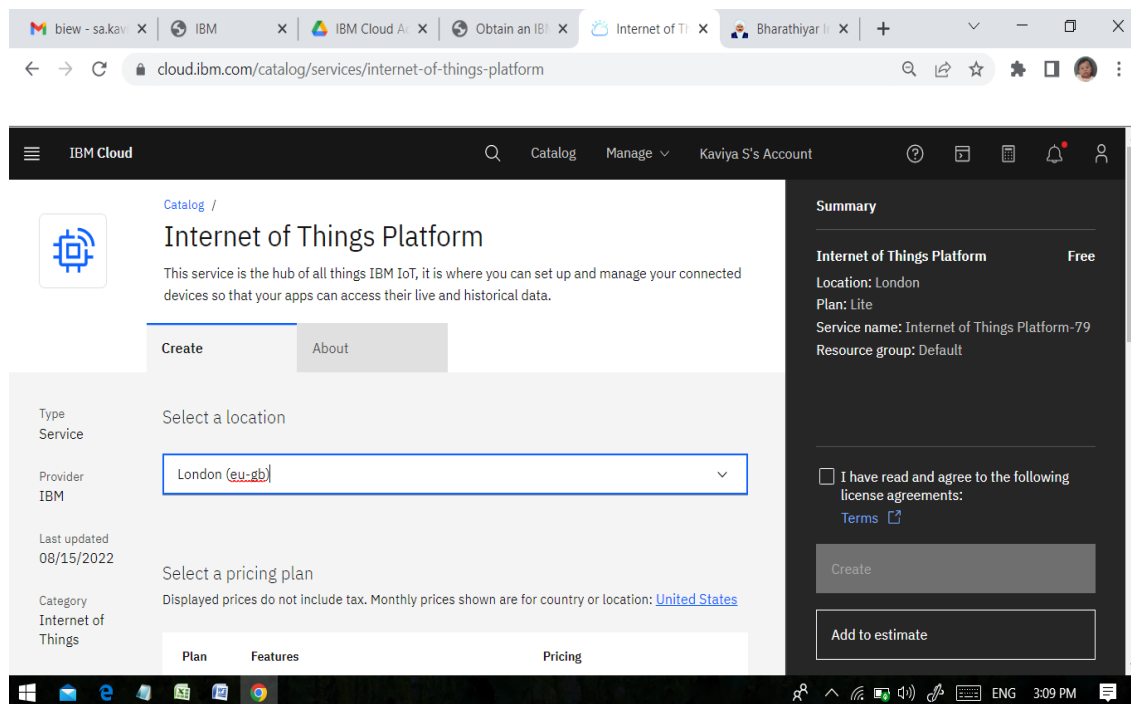
4. Click on the IOT in the category mentioned.



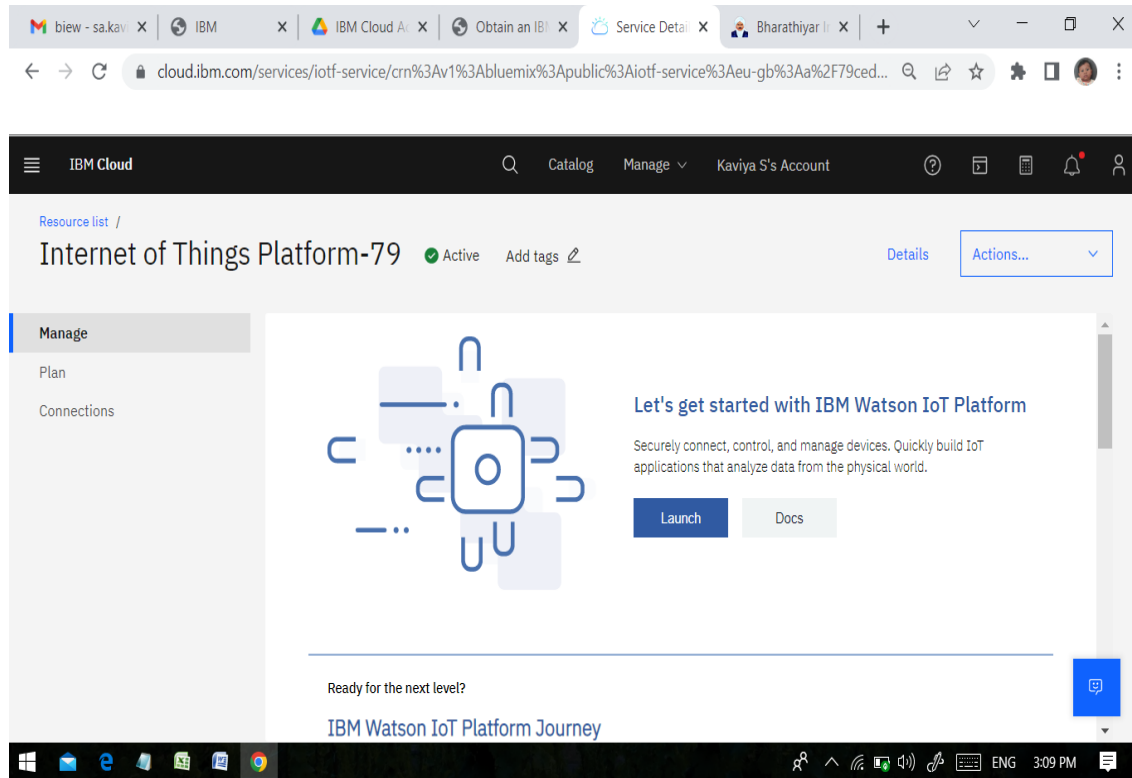
5. If already a lite is present delete it else u can't create another



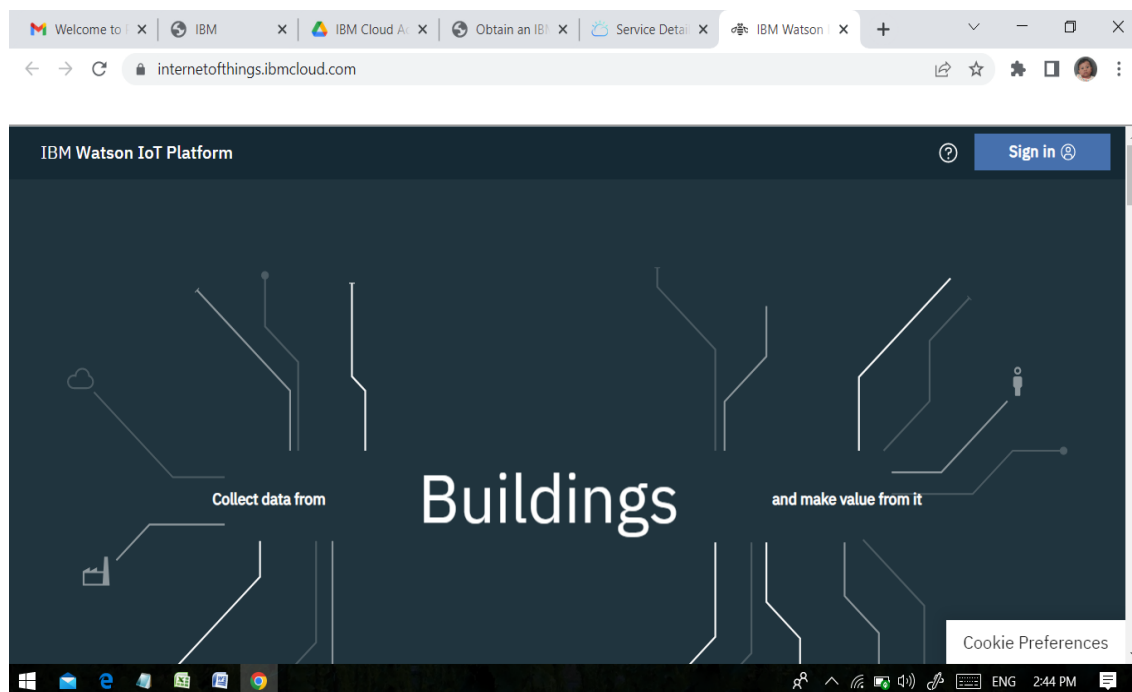
6. Enter the location and in the configure your resources type the service name and choose the plan, tick the agree with it agreements and then click on create.



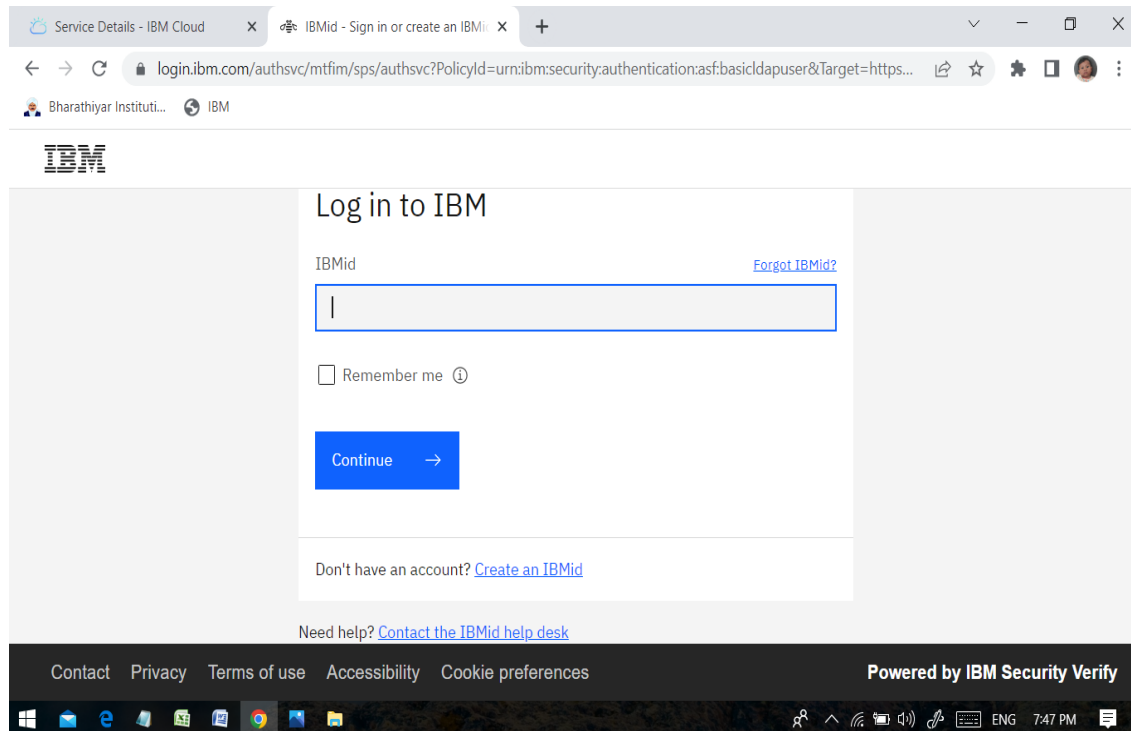
7. Internet of things platform smart crop protection will be created, where there are different options like manage, plan, and connection.



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

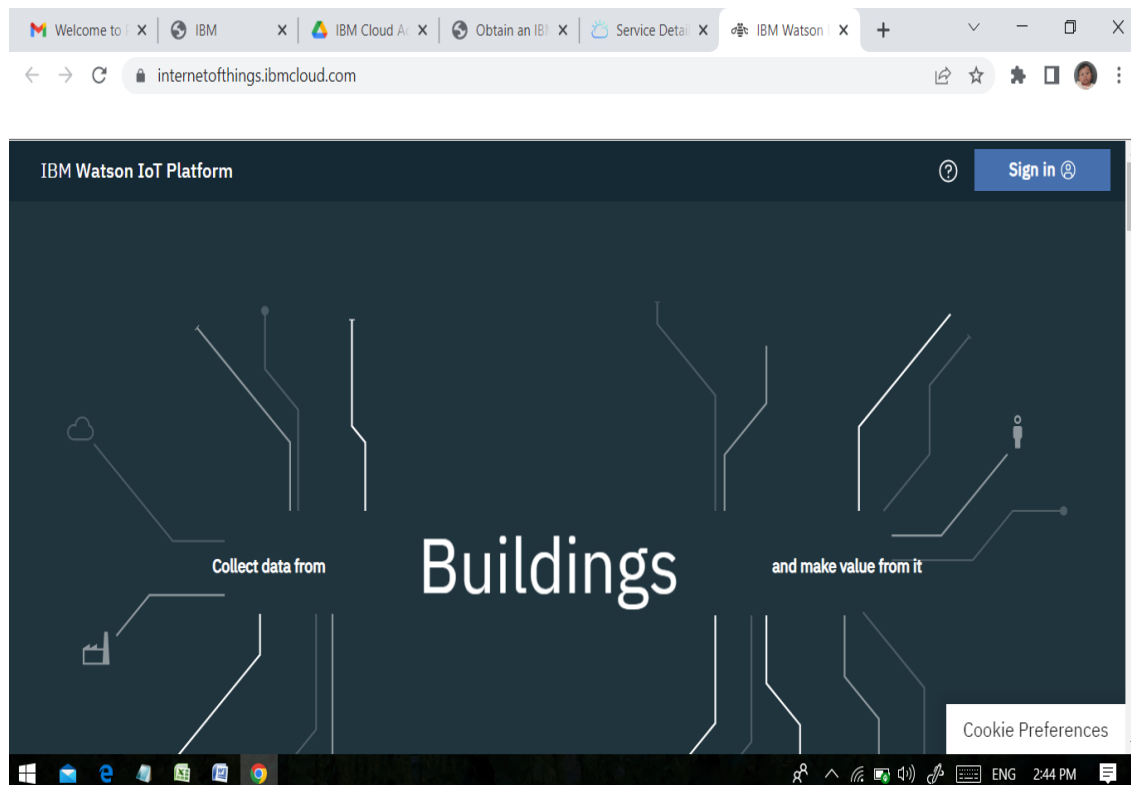


9. Enter the details to sign in to the Watson cloud to create a device.

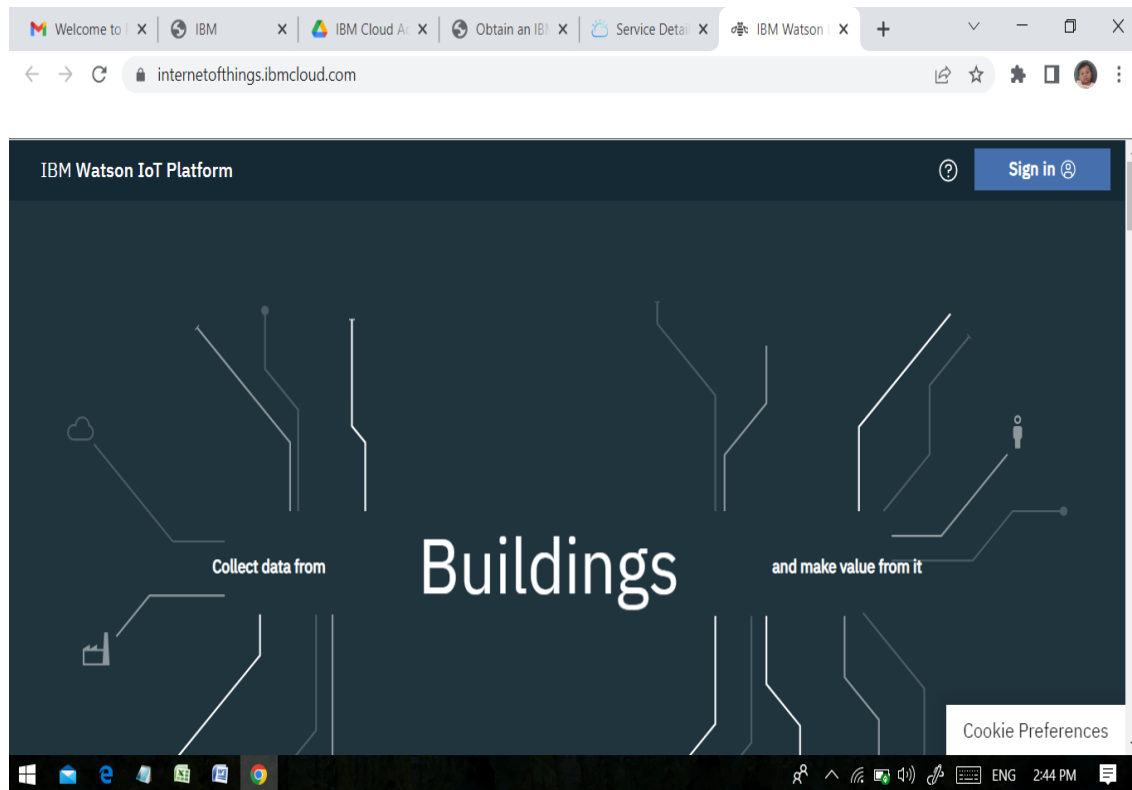


The screenshot shows a web browser window with the URL `login.ibm.com/authsvc/mtfm/sps/authsvc?PolicyId=urn:ibm:security:authentication:asf:basicdapuser&Target=https...`. The page features the IBM logo on the left and a central login form titled "Log in to IBM". The form includes an "IBMid" input field with a "Forgot IBMId?" link, a "Remember me" checkbox, and a blue "Continue" button. Below the form is a link to "Create an IBMId" for new users. At the bottom, there is a link to "Contact the IBMId help desk". The footer contains links for "Contact", "Privacy", "Terms of use", "Accessibility", and "Cookie preferences", along with a "Powered by IBM Security Verify" badge. The Windows taskbar at the bottom shows the time as 7:47 PM.

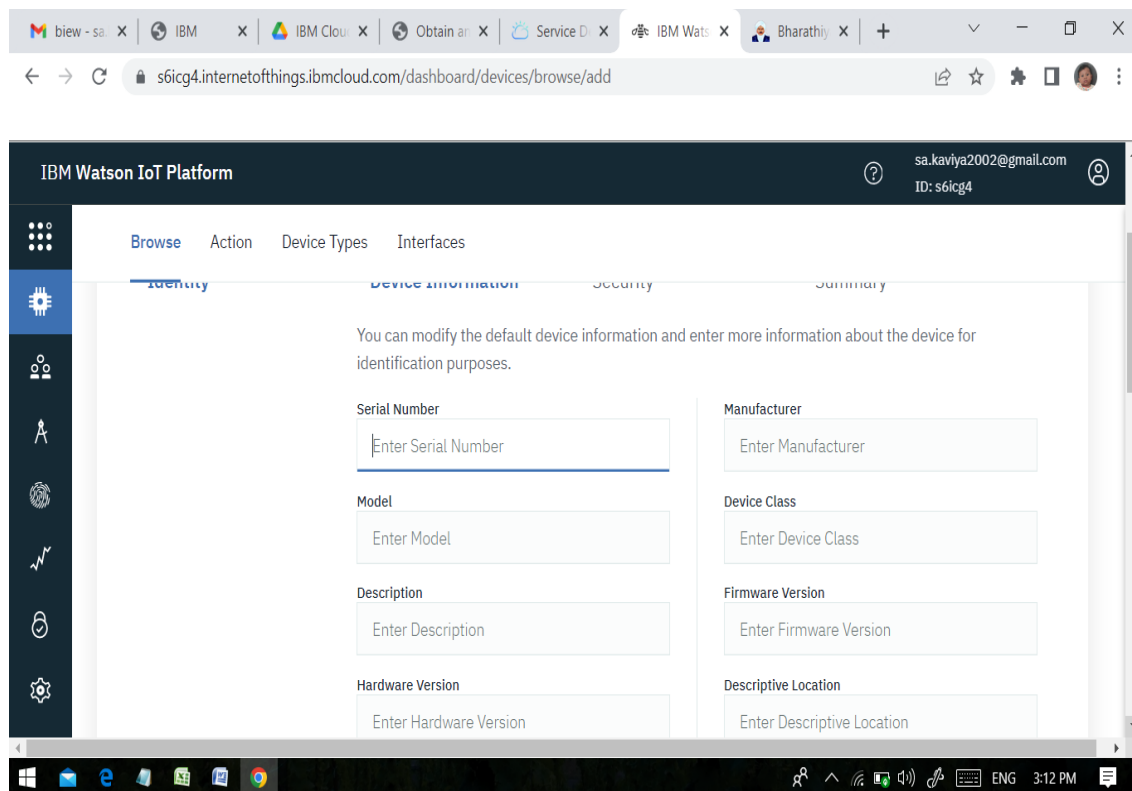
10. Once logged in the name will be displayed and it goes back to the first page.



11. 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.



12. The member tab is add the teams members to work in the platform.



13. 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 IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The 'Identity' tab is selected, showing a progress bar with four steps: Identity, 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 the value 'NodeMCU' and 'Device ID' with the value '12345'. At the bottom right, there are 'Cancel' and 'Next' buttons. The user's email 'sa.kaviya2002@gmail.com' and ID 's6icg4' are visible in the top right corner.

14. This page to enter extra details and of the hardware.

The screenshot shows the IBM Watson IoT Platform interface, now on the 'Device Information' tab. The progress bar shows the first two steps, 'Identity' and 'Device Information', as completed. A message states: 'You can modify the default device information and enter more information about the device for identification purposes.' There are several input fields for additional details: 'Serial Number' (placeholder: Enter Serial Number), 'Manufacturer' (placeholder: Enter Manufacturer), 'Model' (placeholder: Enter Model), 'Device Class' (placeholder: Enter Device Class), 'Description' (placeholder: Enter Description), 'Firmware Version' (placeholder: Enter Firmware Version), 'Hardware Version' (placeholder: Enter Hardware Version), and 'Descriptive Location' (placeholder: Enter Descriptive Location). The user's email 'sa.kaviya2002@gmail.com' and ID 's6icg4' are visible in the top right corner.

15. Clicking next it goes to the security where we do authentication token ID.

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

17.The device credentials will be displayed with all details.

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

It has different the like identity, device information, state and login.

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar is present with the text 'Search by Device ID'. A table lists devices with columns for Device ID, Status, Device Type, and Class ID. The first device has ID 12345, Status 'Disconnected', and Device Type 'NodeMCU'. Below the table, a detailed view for device 12345 is shown, including fields for Device ID, Device Type, Date Added, Added By, and Connection Status.

Device ID	Status	Device Type	Class ID
12345	Disconnected	NodeMCU	Device

Identity	Device Information	Recent Events	State	Logs
Device ID	12345			
Device Type	NodeMCU			
Date Added	Nov 8, 2022 3:16 PM			
Added By	sa.kaviya2002@gmail.com			
Connection Status	Disconnected			

19.The Boards will display card for the project.

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes 'Your boards' and 'Public boards'. A search bar is present with the text 'Search by Board ID'. A table lists boards with columns for Board ID, Name, Status, and Class ID. The first board has ID 12345, Name 'Usage Overview', Status 'Active', and Class ID 'Board'. Below the table, a detailed view for board 12345 is shown, including fields for Board ID, Board Name, Date Added, Added By, and Connection Status.

Board ID	Name	Status	Class ID
12345	Usage Overview	Active	Board

Identity	Board Information	Recent Events	State	Logs
Board ID	12345			
Board Name	Usage Overview			
Date Added	Nov 8, 2022 3:16 PM			
Added By	sa.kaviya2002@gmail.com			
Connection Status	Active			

RESULT:

An IBM Watson cloud for IOT and device is created.

TEAM ID : PNT2022TMID41344

TEAM LEADER : S.KAVIYA

TEAM MEMBER 1 : R.SWATHI

TEAM MEMBER 2 : M.SUJITHA

TEAM MEMBER 3 : F.NIRMALA

TEAM SIZE : 4

MENTOR : K.SARANYA