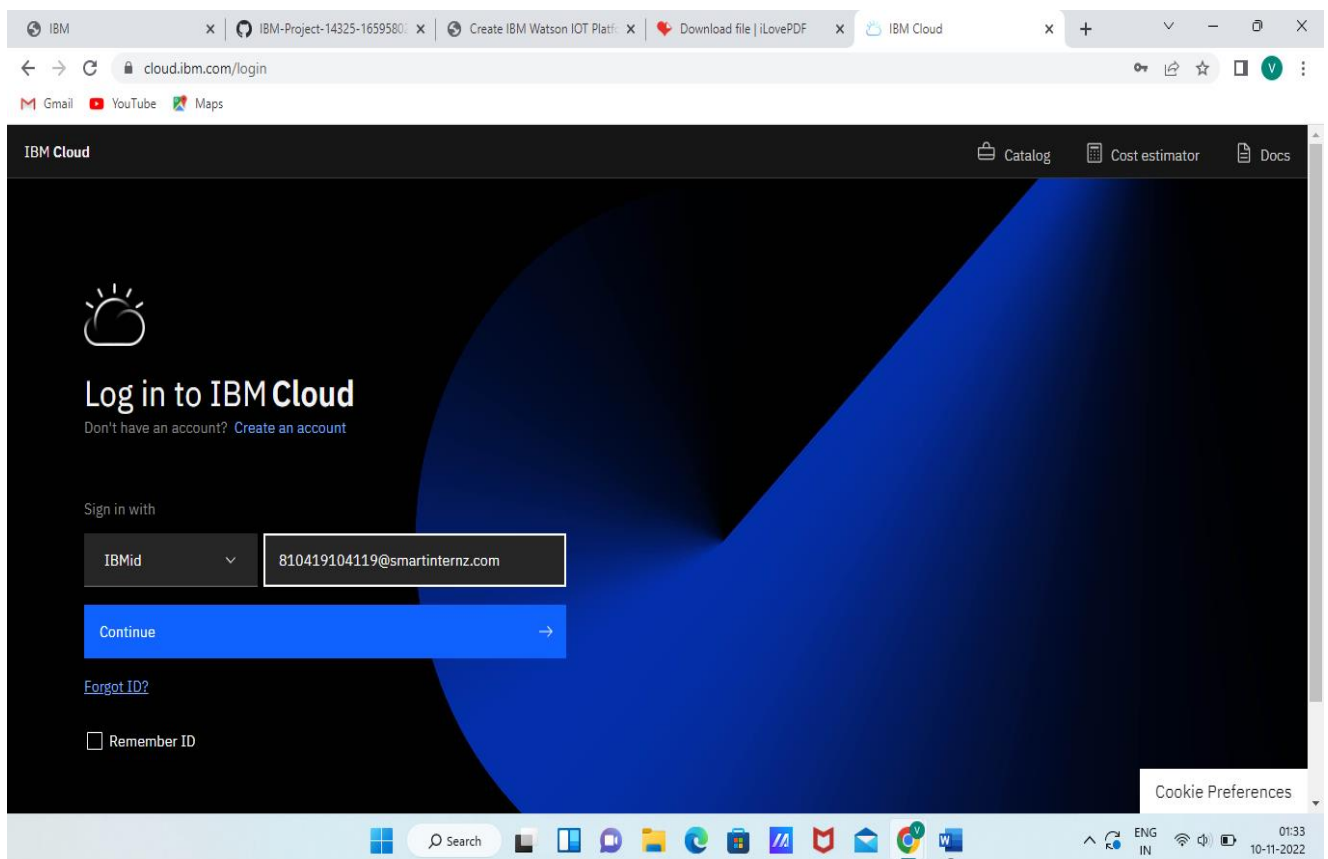


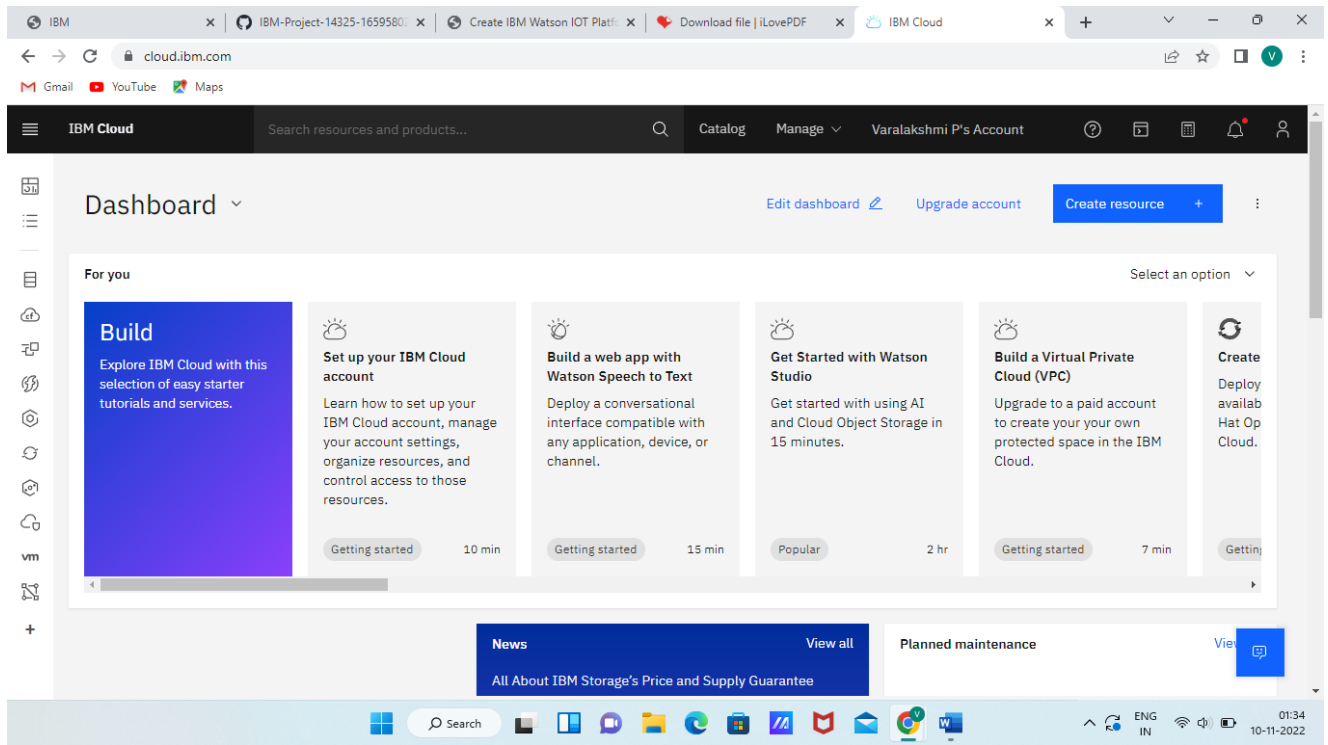
| | |
|---------------|--|
| Date | 5 November 2022 |
| Team ID | PNT2022TMID08383 |
| Project Name | Smart Farmer – IOT Enabled Smart Farming Application |
| Maximum Marks | 4 Marks |

STEPS

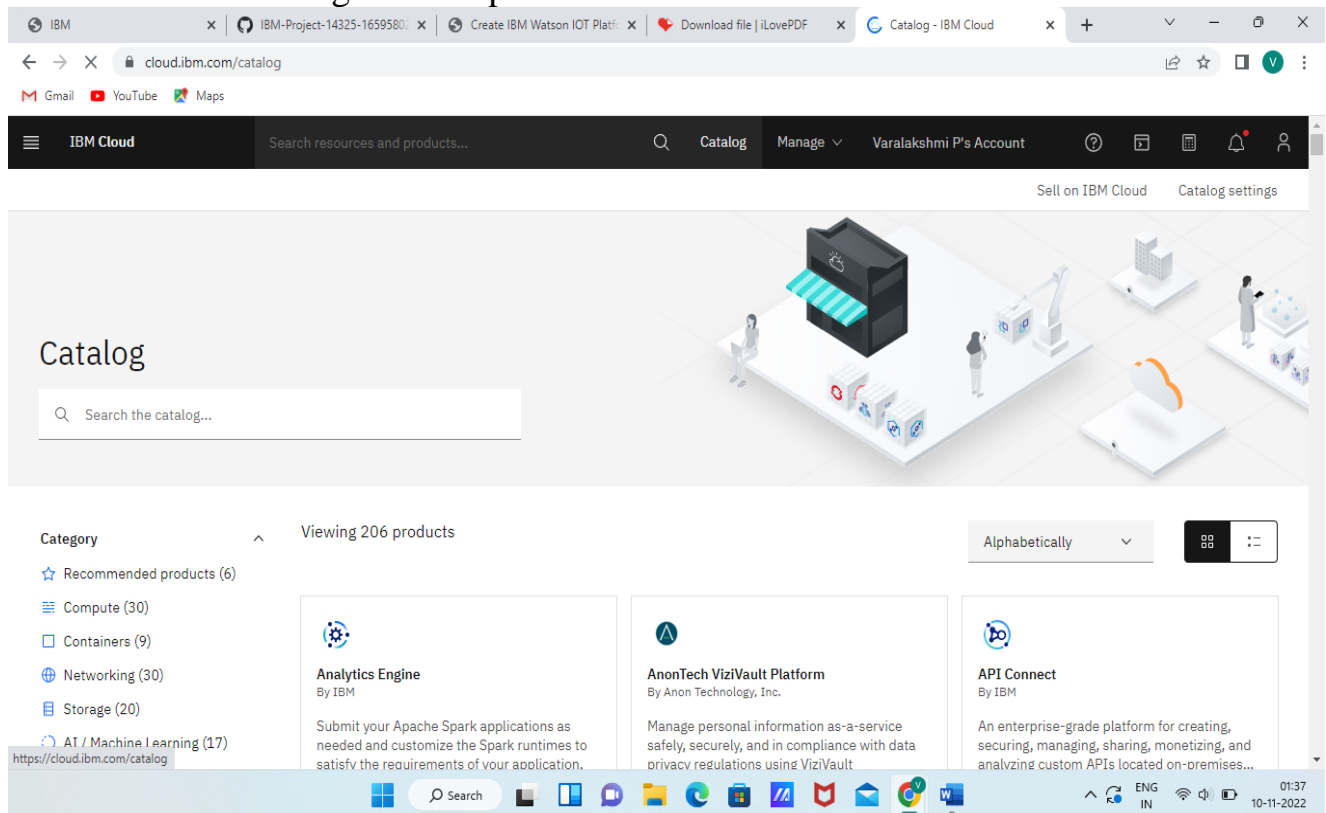
1. Firstly create an IBM cloud account with IBM ID and password.



2. Home page of IBM cloud



3. Click on the catalog on the top.



4. Click on the IOT in the category mentioned.

The screenshot shows the IBM Cloud 'Internet of Things Platform' page. The 'Create' tab is active, displaying a 'Select a location' dropdown set to 'London (eu-gb)' and a 'Select a pricing plan' section. A table lists the 'Lite' plan as free, with features including up to 500 registered devices and 200 MB of data metric. The right sidebar shows a 'Summary' for the 'Internet of Things Platform' in the 'Free' tier, with location 'London' and plan 'Lite'. A 'Create' button is visible at the bottom of the sidebar.

| Plan | Features | Pricing |
|------|--|---------|
| Lite | Includes up to 500 registered devices, and a maximum of 200 MB of each data metric. Maximum of 500 registered devices. | Free |

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

The screenshot shows the same IBM Cloud page, but with an error message displayed in a yellow box. The message states: 'Existing Lite plan Instance. You can have only 1 Lite plan instance of this service per resource group. Delete your current Lite plan instance in Default resource group to create a new one, or view the existing instance.' The 'Create' button is disabled, and the 'Add to estimate' button is also present. The sidebar summary remains the same.

Existing Lite plan Instance

You can have only 1 Lite plan instance of this service per resource group. [Delete](#) your current Lite plan instance in Default resource group to create a new one, or [view the existing instance](#).

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.

The screenshot shows the IBM Cloud 'Internet of Things Platform' creation page. The browser address bar shows 'cloud.ibm.com/catalog/services/internet-of-things-platform'. The page has a dark header with 'IBM Cloud', a search bar, and navigation links. The main content area is titled 'Internet of Things Platform' with a description: 'This service is the hub of all things IBM IoT, it is where you can set up and manage your connected devices so that your apps can access their live and historical data.' Below this are 'Create' and 'About' tabs. The 'Create' tab is active, showing a 'Select a location' dropdown set to 'London (eu-gb)' and a 'Select a pricing plan' section. A table lists the 'Lite' plan, which includes up to 500 registered devices and 200 MB of data metric, at a 'Free' price. On the right, a 'Summary' panel shows the service name, location, plan, and a checkbox for agreeing to terms. At the bottom, there are 'Create' and 'Add to estimate' buttons. The Windows taskbar is visible at the bottom of the screen.

IBM Cloud

Search resources and products...

Catalog Manage Varalakshmi P's Account

Internet of Things Platform

This service is the hub of all things IBM IoT, it is where you can set up and manage your connected devices so that your apps can access their live and historical data.

Create About

Type Service

Provider IBM

Last updated 08/15/2022

Category Internet of Things

Compliance IAM-enabled

Location Frankfurt London

Select a location

London (eu-gb)

Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

| Plan | Features | Pricing |
|------|---|---------|
| Lite | Includes up to 500 registered devices, and a maximum of 200 MB of each data metric Maximum of 500 registered devices | Free |

Summary

Internet of Things Platform Free

Location: London

Plan: Lite

Service name: Internet of Things Platform-bt

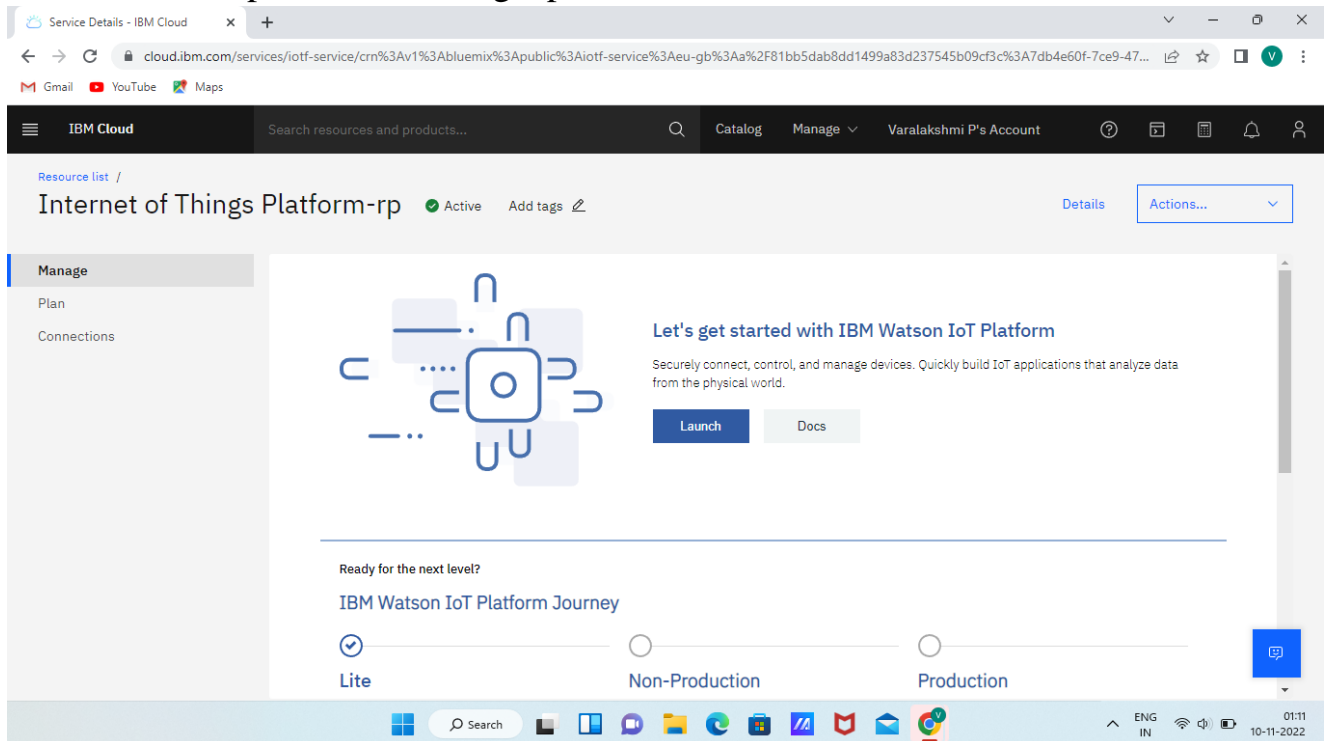
Resource group: Default

☐ I have read and agree to the following license agreements: [Terms](#)

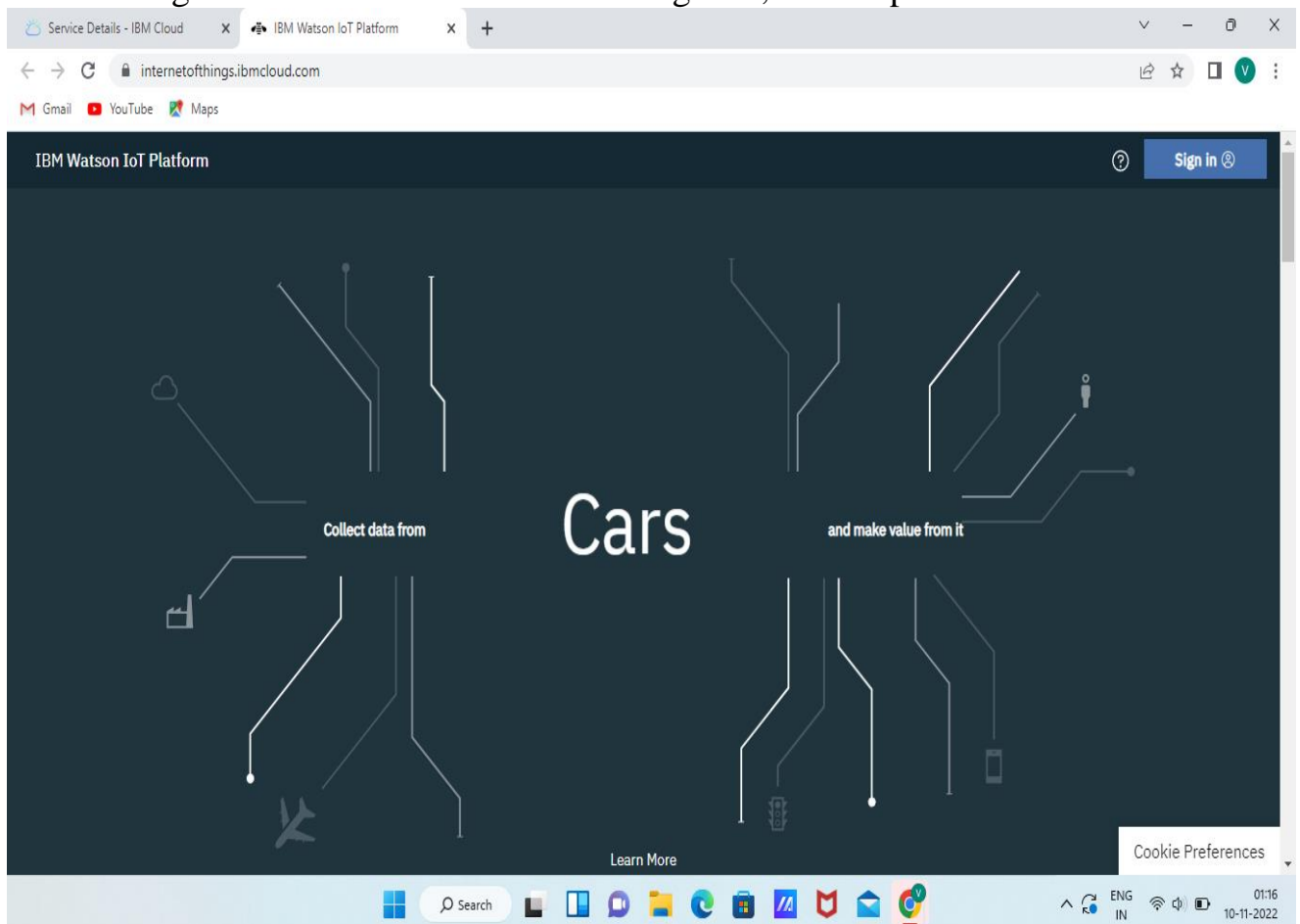
Create

Add to estimate

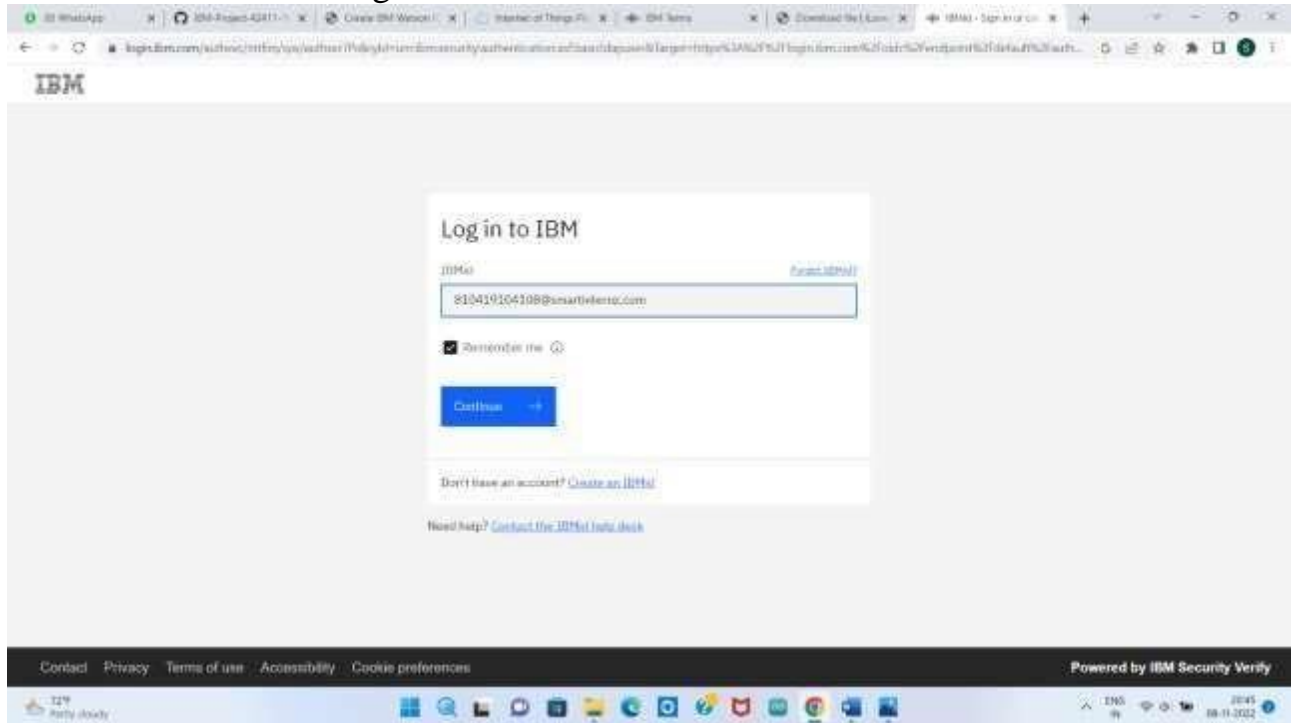
7. Internet of things platform smart crop protection will be created, where there are different options like manage, plan, and connection.



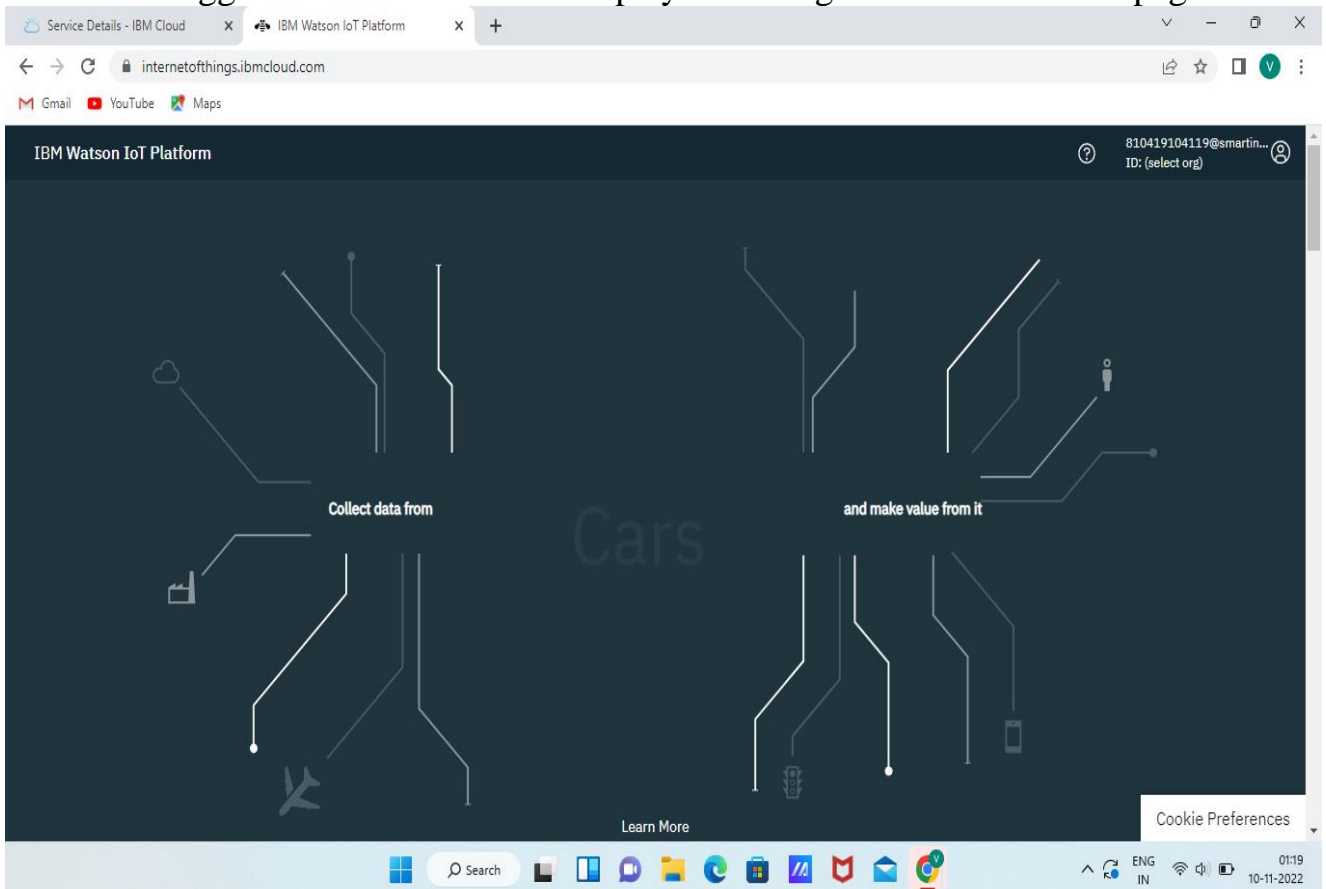
8. Clicking on the launch button in the manage tab, it will open to this..



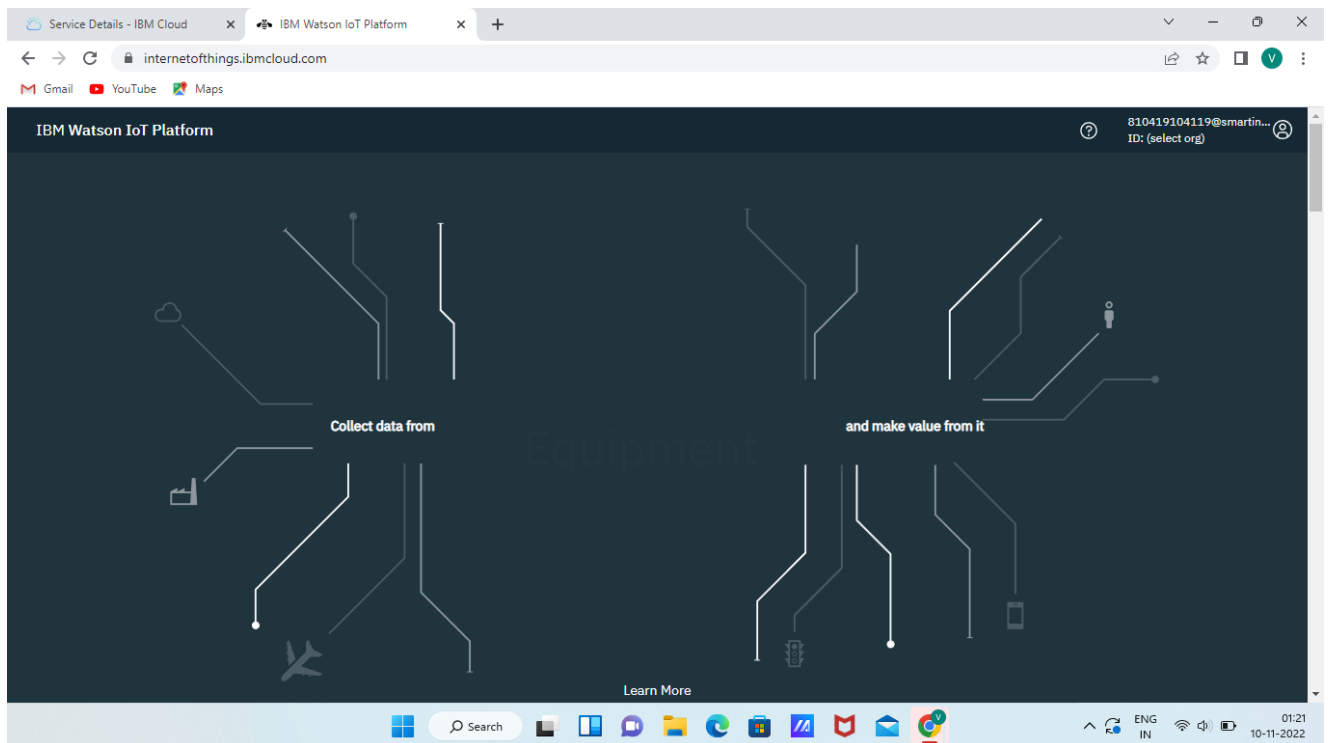
9. Enter the details to sign in to the Watson cloud to create a device.



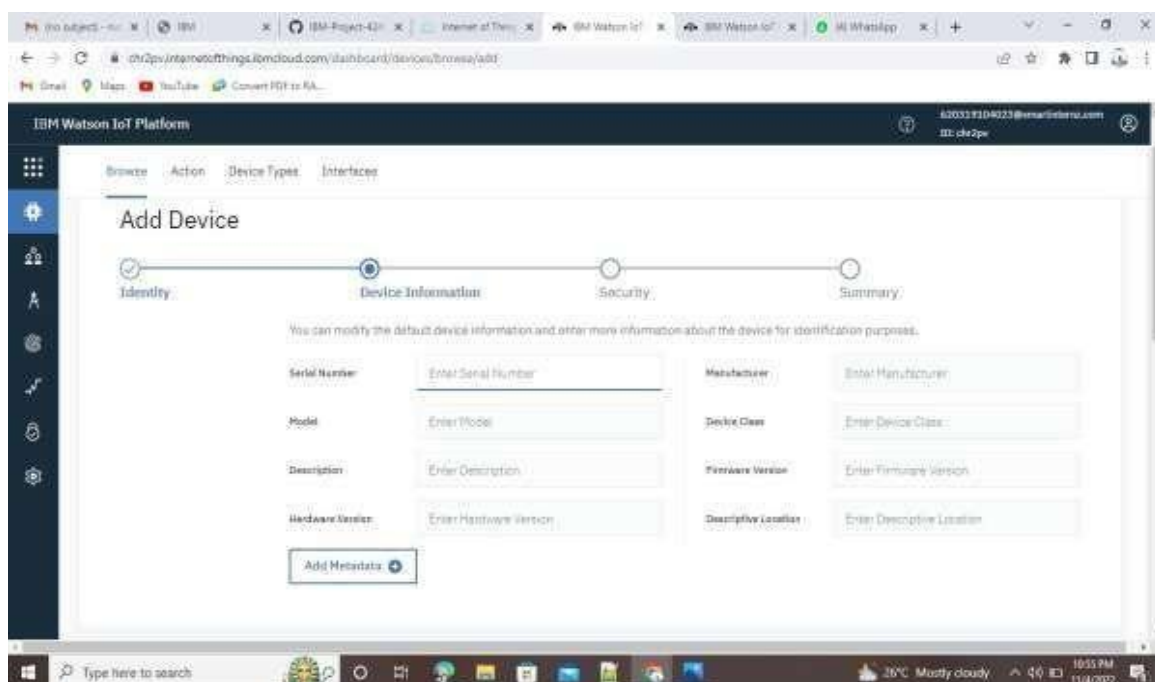
10. Once logged in the name will be displayed and it goes back to the first page.



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 'Add Device' wizard is displayed with a progress bar showing 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 placeholder 'Select or create a device type...' and 'Device ID' with a placeholder 'Enter Device ID'. At the bottom right, there are 'Cancel' and 'Next' buttons.

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

The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The 'Add Device' wizard is displayed with a progress bar showing four steps: Identity, Device Information (selected), Security, and Summary. Below the progress bar, 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 arranged in two columns: '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'). At the bottom left, there is an 'Add Metadata' button with a plus icon.

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

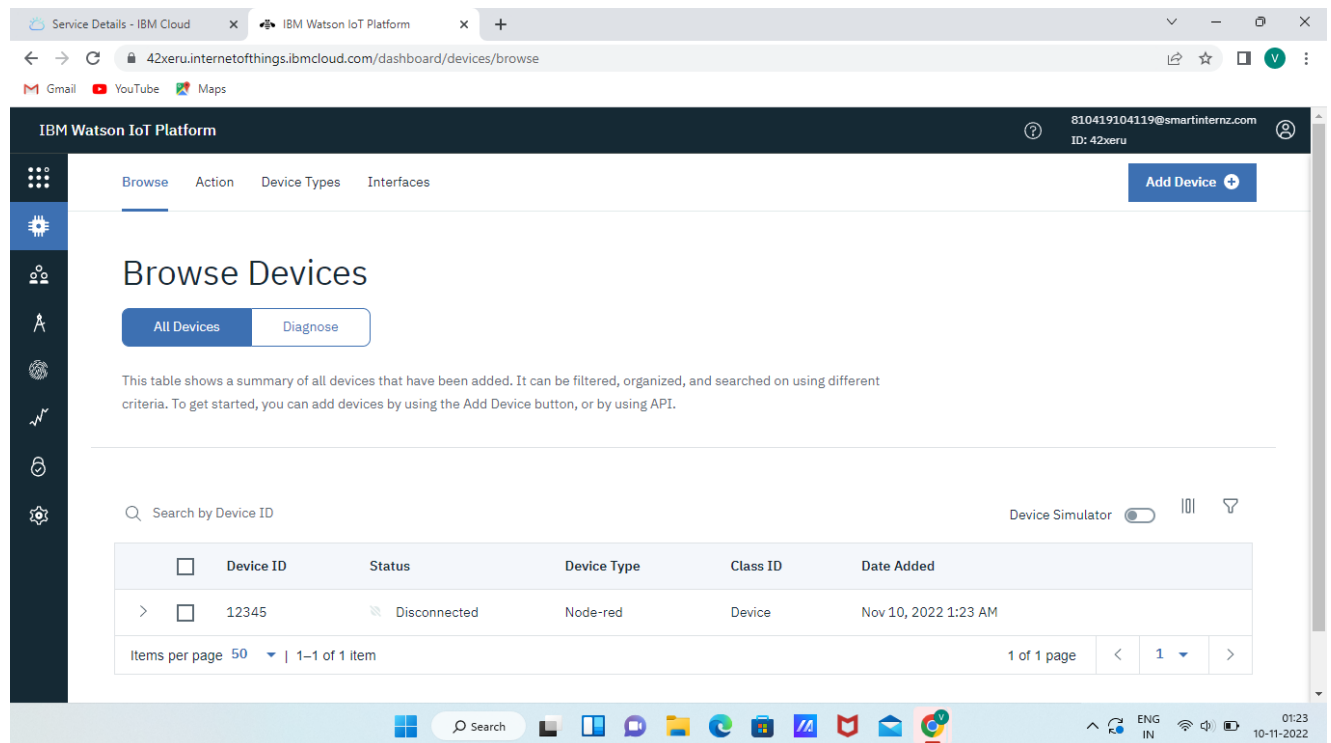
16. Clicking on the next it goes to the summary of the device then click finish.

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.

19. The Boards will display card for the project.



RESULT:

An IBM Watson cloud for IOT and device is created.

TEAM ID : PNT2022TMID08383

TEAM LEADER : P.VARALAKSHMI

TEAM MEMBER 1 : S.SUBASHINI

TEAM MEMBER 2 : S.SWATHI

TEAM MEMBER 3 : R.VASUKI

TEAM MEMBER 4 : R.RATHNA

TEAM SIZE 5