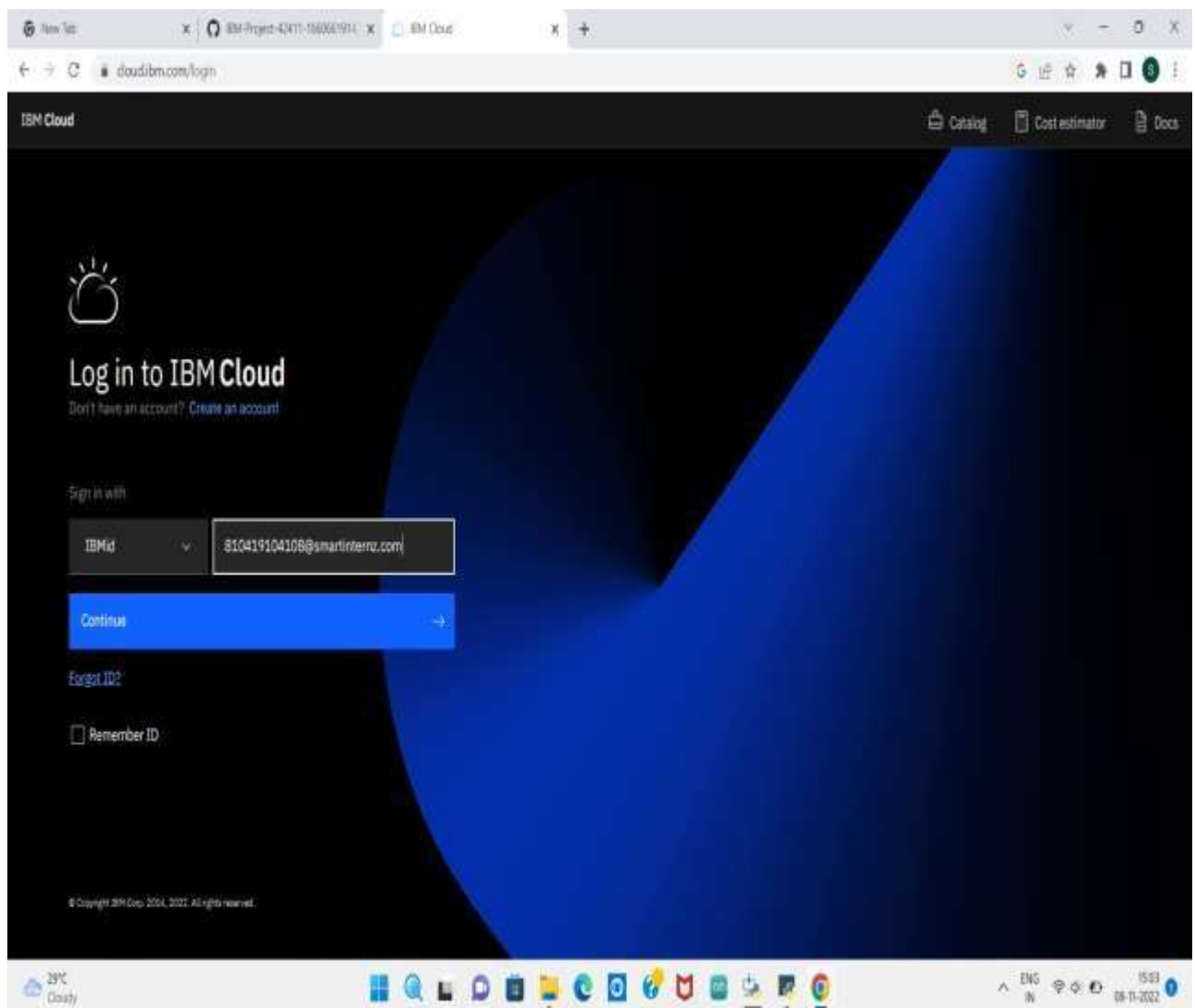


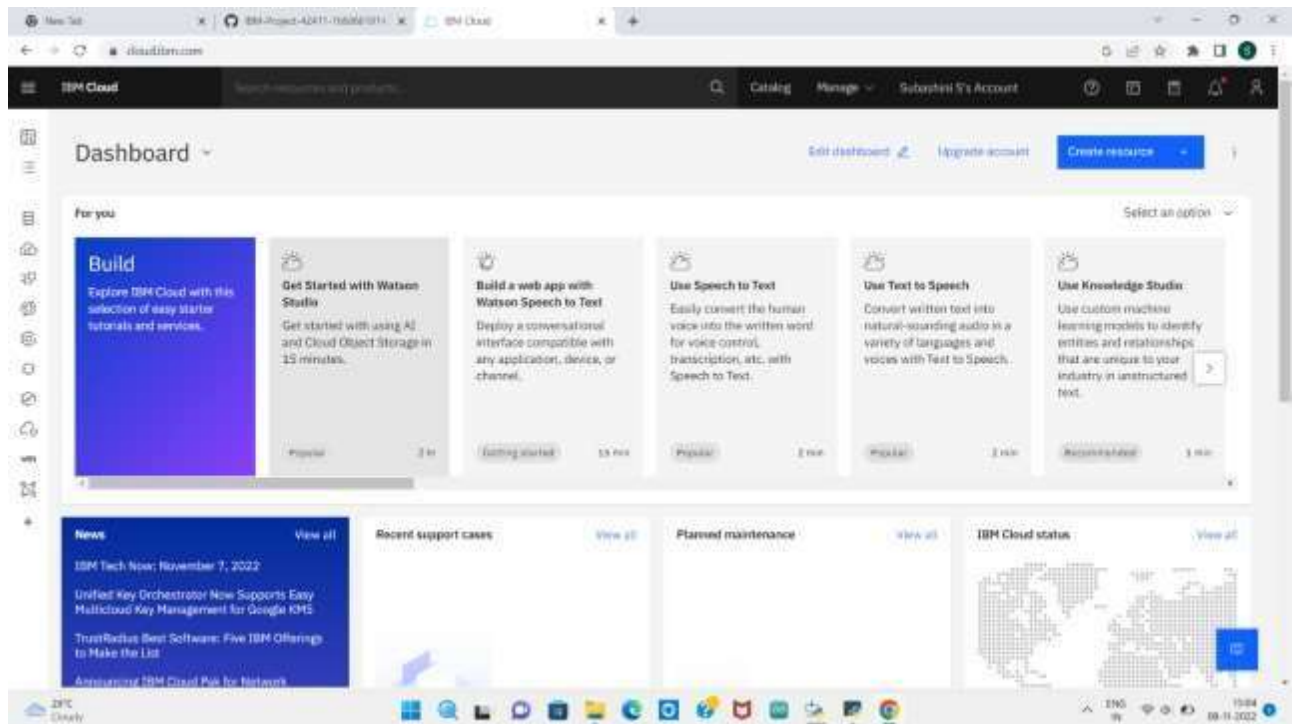
Date	5 November 2022
Team ID	PNT2022TMID08383
Project Name	Smart Farmer – IOT Enabled Smart Farming Application
Maximum Marks	4 Marks

STEPS

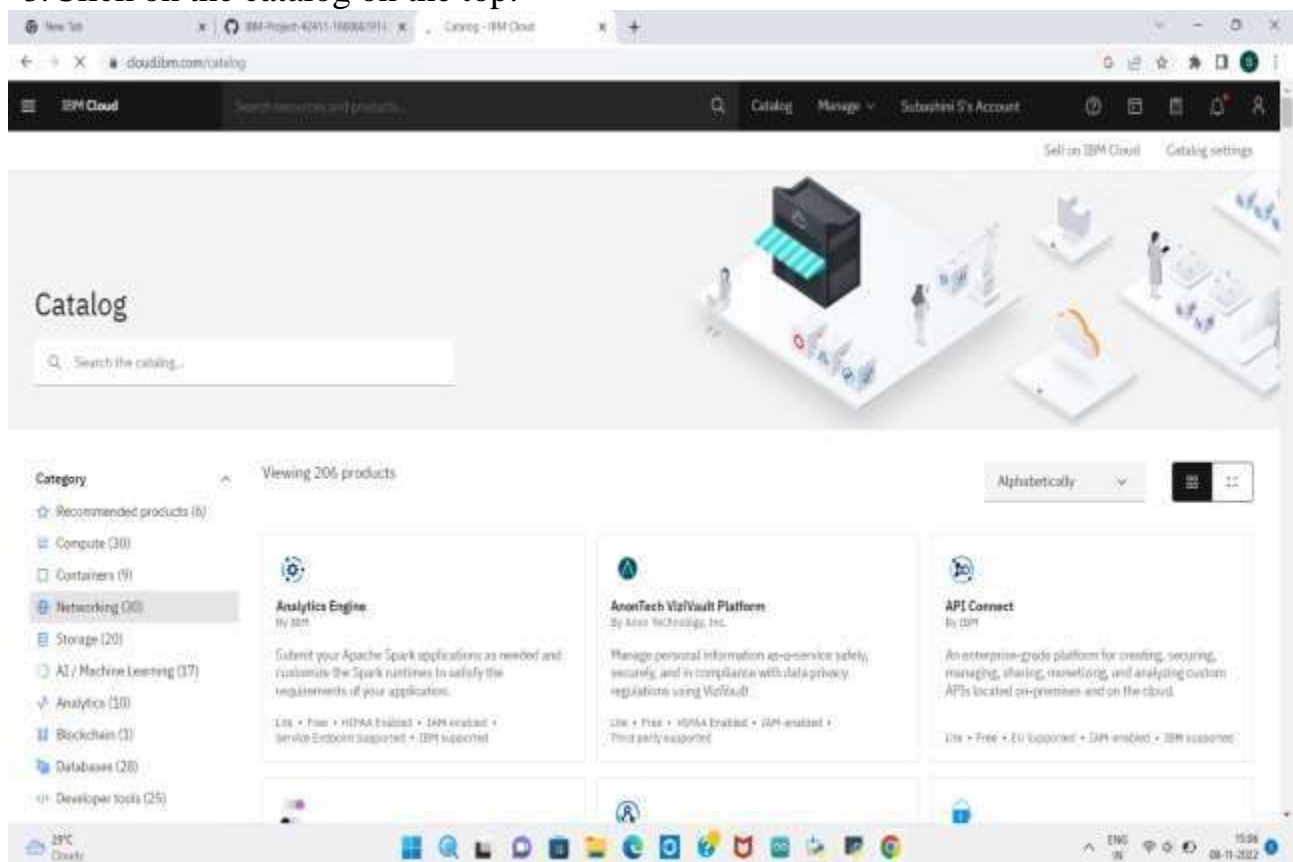
1. Firstly create an IBM cloud account with IBM ID and password.



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 form to select a location and a pricing plan. The location dropdown is set to 'London (eu-gb)'. The pricing plan table shows a 'Lite' plan for free, which includes up to 500 registered devices and 200 MB of data metrics. A summary panel on the right shows the service details and a warning about the existing Lite plan.

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, Dallas, Washington DC

Related links: Docs, Terms

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. Maximum of 500 application bindings. Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed.	Free

The Lite service plan for Internet of Things Platform includes up to 500 registered devices, and a maximum of 200 MB each of data exchanged, data analyzed, and edge data analyzed per month.

Summary

Internet of Things Platform Free

Location: London

Plan: Lite

Service name: Internet of Things Platform-j

Resource group: Default

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](#).

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

Create

Add to estimate

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

This screenshot is identical to the previous one, showing the IBM Cloud 'Internet of Things Platform' page. The 'Create' tab is active, and the location is set to 'London (eu-gb)'. The pricing plan table shows the 'Lite' plan for free. A summary panel on the right shows the service details and a warning about the existing Lite plan.

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, Dallas, Washington DC

Related links: Docs, Terms

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. Maximum of 500 application bindings. Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed.	Free

The Lite service plan for Internet of Things Platform includes up to 500 registered devices, and a maximum of 200 MB each of data exchanged, data analyzed, and edge data analyzed per month.

Summary

Internet of Things Platform Free

Location: London

Plan: Lite

Service name: Internet of Things Platform-j

Resource group: Default

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](#).

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

Create

Add to estimate

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 console interface for creating a new Internet of Things Platform instance. The page is titled "Internet of Things Platform" and includes 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." The "Create" tab is active, and the "About" tab is also visible. On the left sidebar, the "Type" is "Service", the "Provider" is "IBM", and the "Last updated" date is "08/15/2022". The "Category" is "Internet of Things", and the "Compliance" is "IAM-enabled". The "Location" dropdown is set to "London". The "Pricing" section shows a table with one plan, "Lite", which is "Free". The plan features include "Includes up to 500 registered devices, and a maximum of 200 MB of each data metric", "Maximum of 500 registered devices", "Maximum of 500 application bindings", and "Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed". The "Summary" panel on the right shows the instance name "Internet of Things Platform", the location "London", the plan "Lite", and the service name "Internet of Things Platform-j". A warning 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 visible. The bottom of the page shows the Windows taskbar with the date "08-11-2022" and time "19:41".

IBM Cloud

Search resources and products...

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: London

Related links: Docs, Terms

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 Maximum of 500 application bindings Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed	Free

The Lite service plan for Internet of Things Platform includes up to 500 registered devices, and a maximum of 200 MB each of data exchanged, data analyzed, and edge data analyzed per month.

Summary

Internet of Things Platform Free

Location: London

Plan: Lite

Service name: Internet of Things Platform-j

Resource group: Default

Existing Lite plan instance

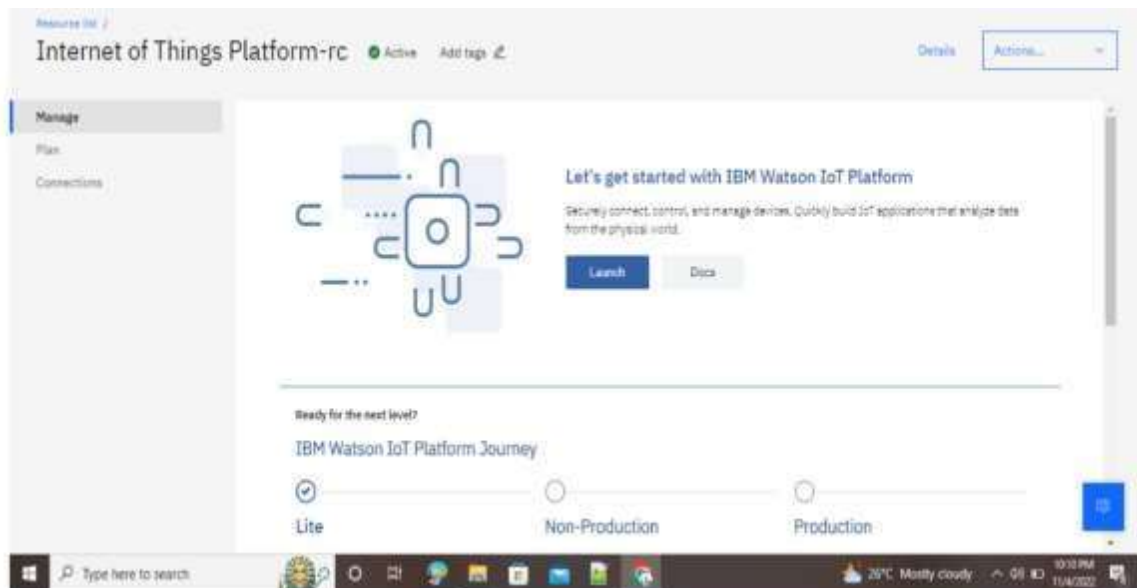
You can have only 1 Lite plan instance of this service per resource group. [Delete your current Lite plan instance in Default resource group to create a new one, or view the existing instance.](#)

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

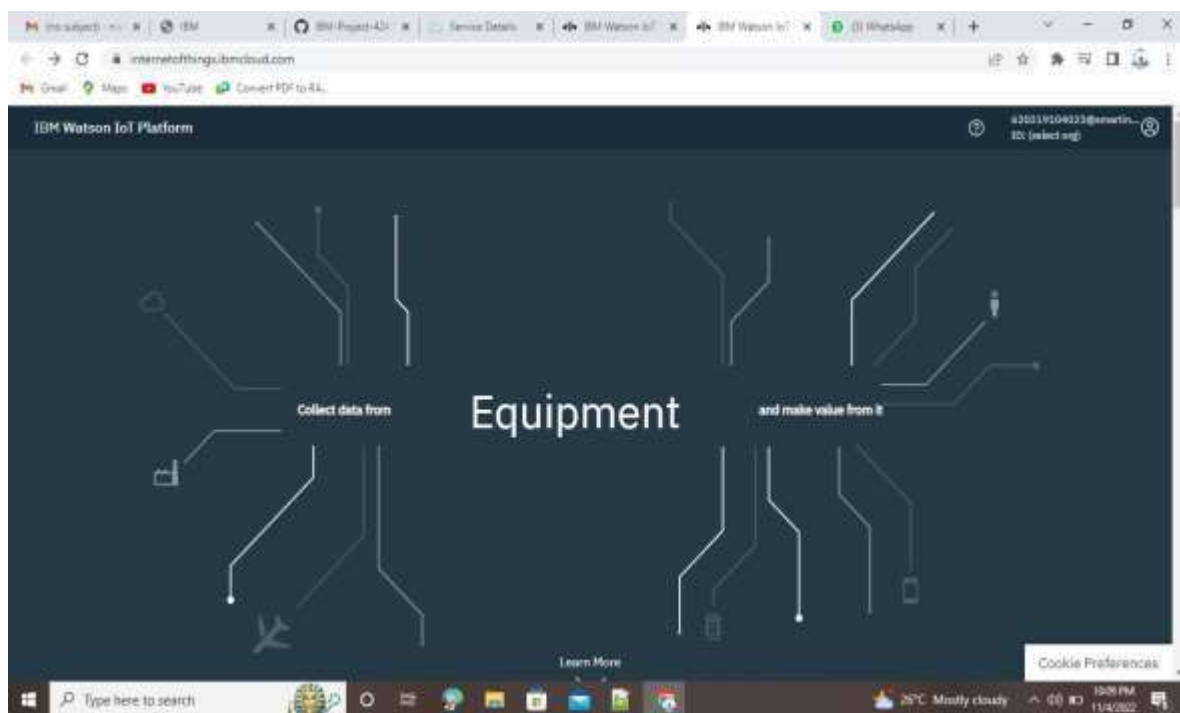
Create

Add to estimate

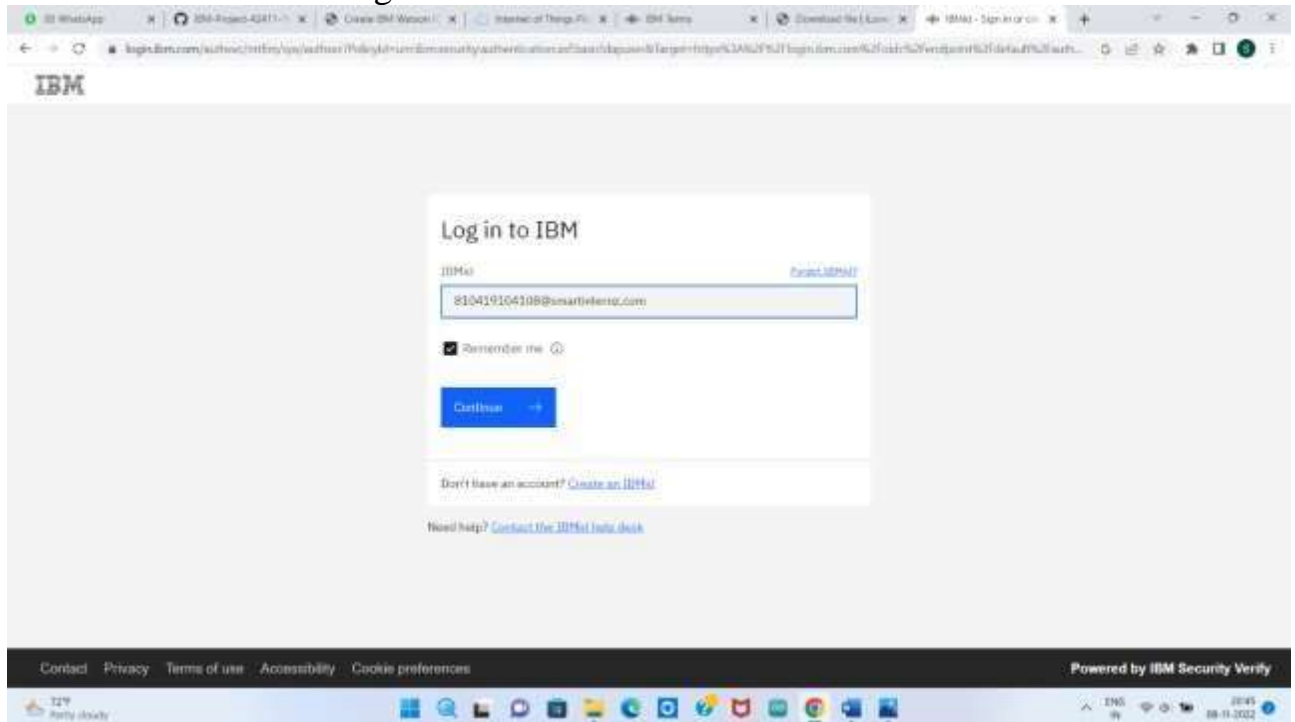
7. Internet of things platform smart crop protection will be created, where there are different options like manage, plan, and connection.



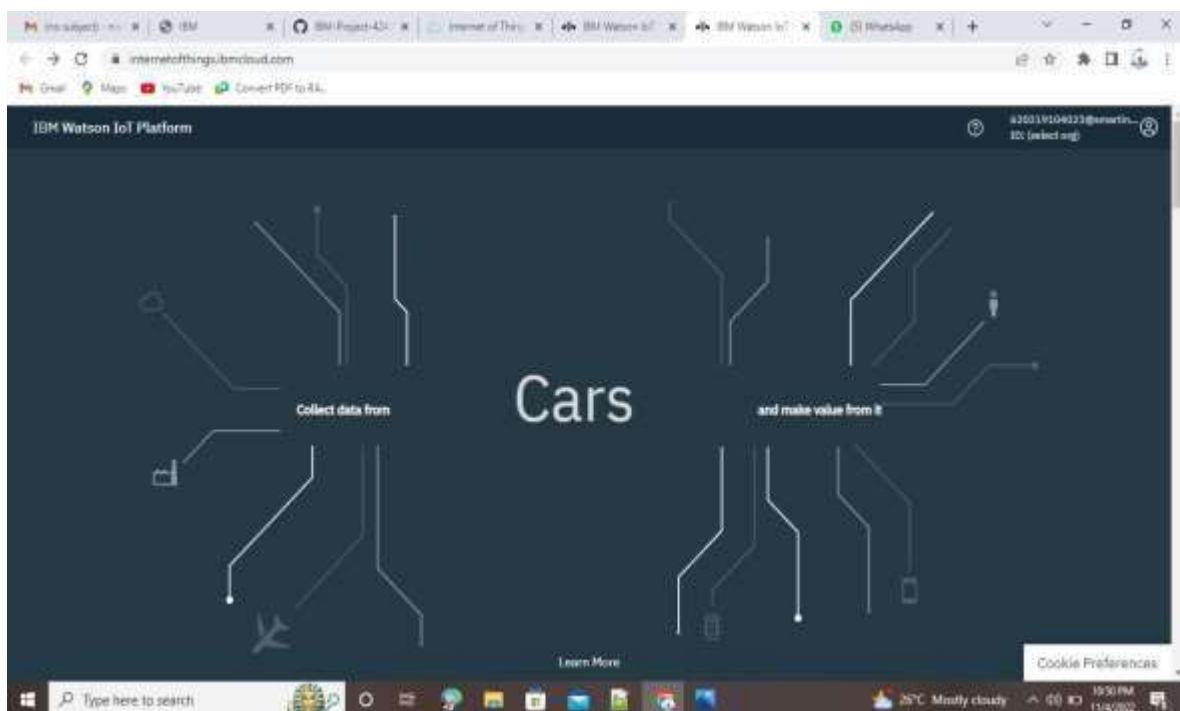
8. Clicking on the launch button in the manage tab, it will open to this..



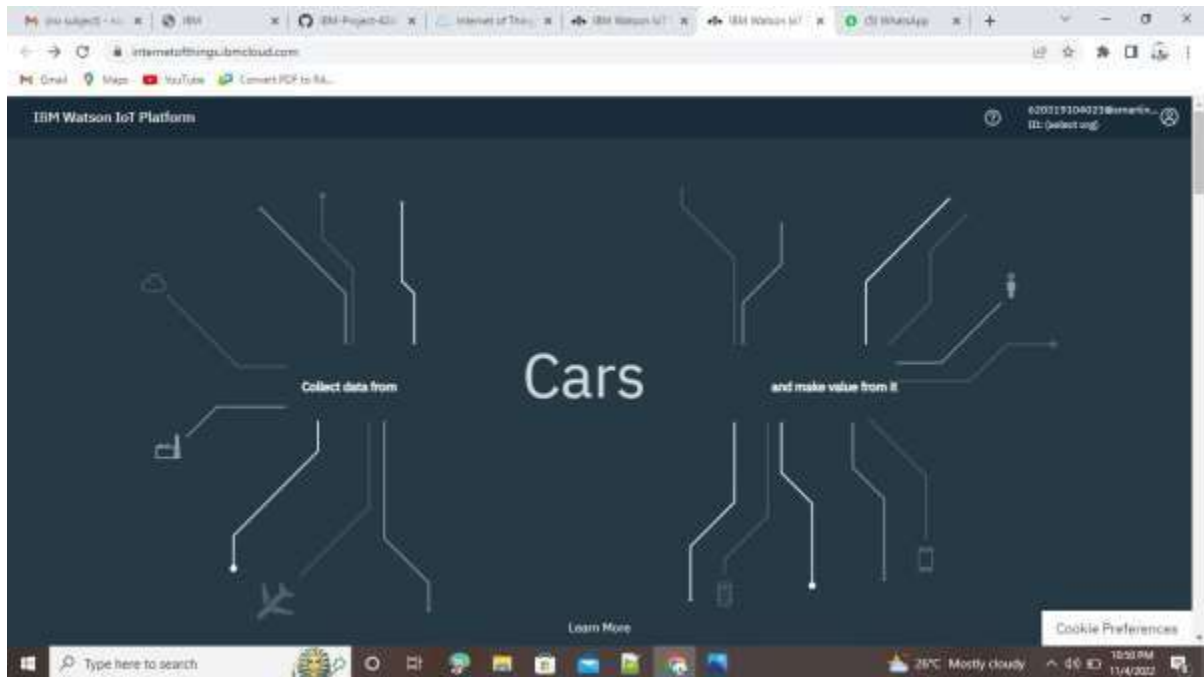
9. Enter the details to sign in to the Watson cloud to create a device.



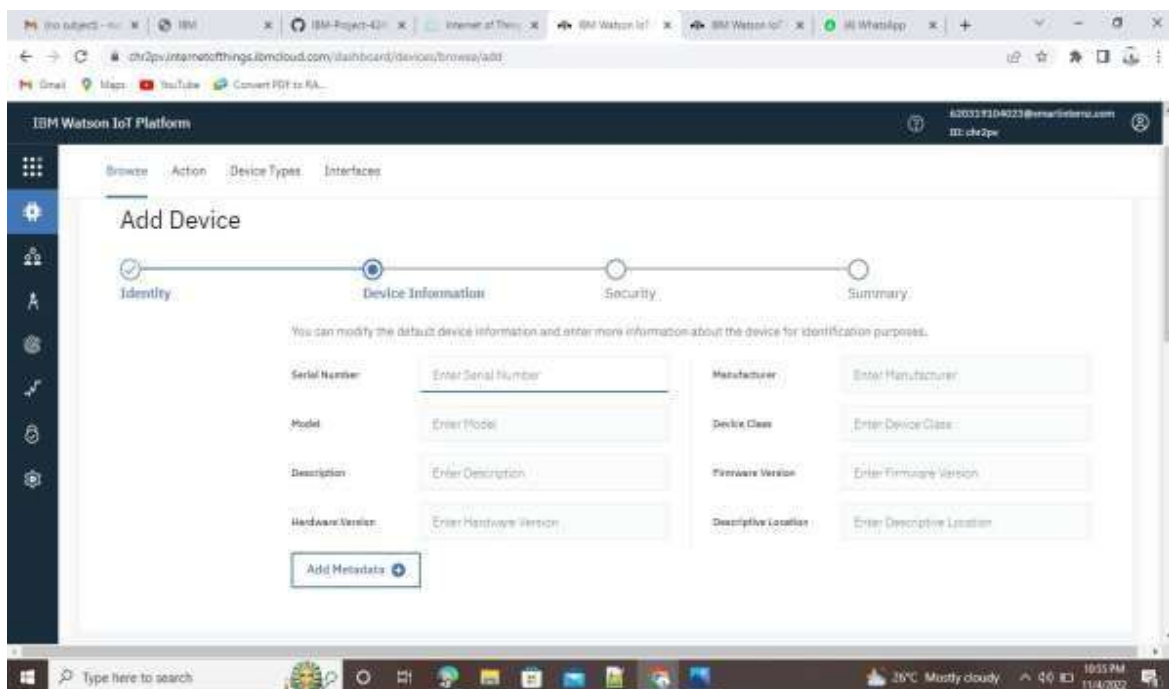
10. Once logged in the name will be displayed and it goes back to the first page.



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, the text 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 'Select or create a device type...' and 'Device ID' with the placeholder 'Enter Device ID'. At the bottom right of the wizard, there are 'Cancel' and 'Next' buttons.

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

The screenshot shows the 'Add Device' wizard at the 'Device Information' step. The progress bar now shows 'Identity' as completed and 'Device Information' as the current step. The text reads: 'You can modify the default device information and enter more information about the device for identification purposes.' Below this, there are two columns of input fields. 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 wizard, there is an 'Add Metadata' button with a plus icon.

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

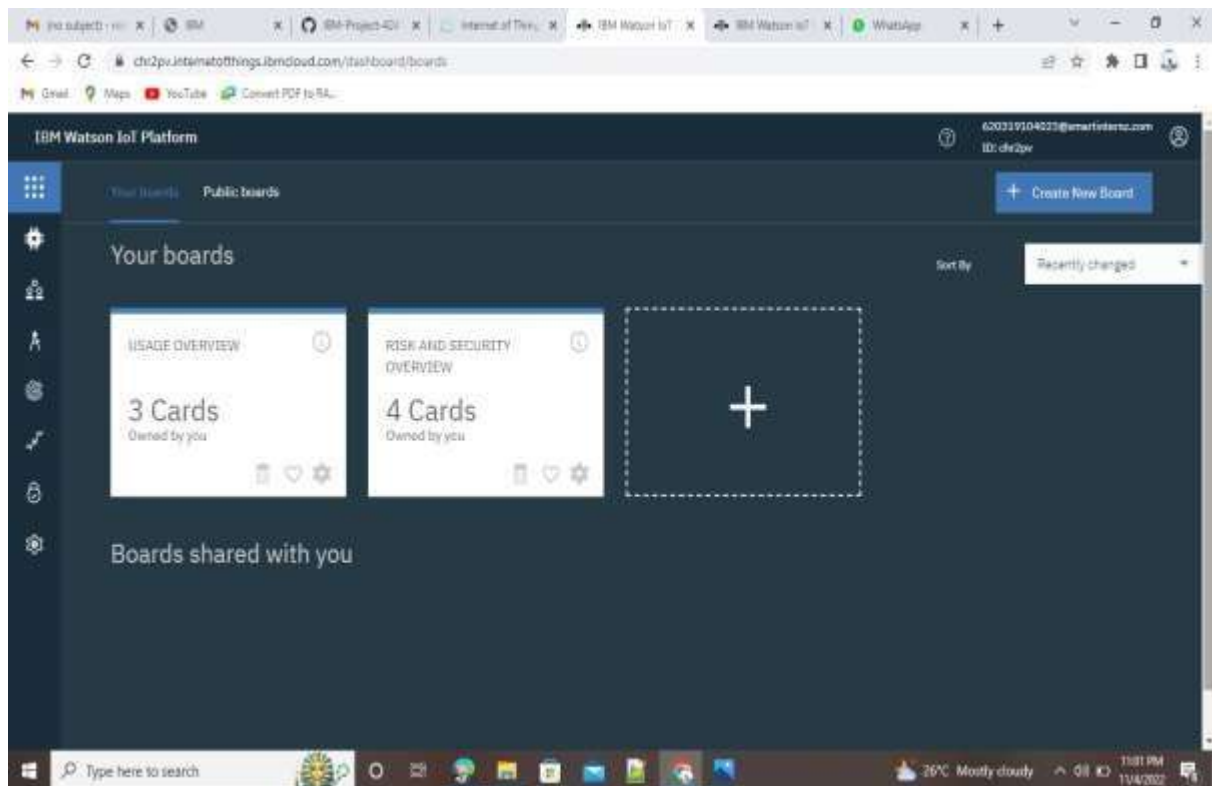
16. Clicking on the next it goes to the summary of the device then click finish.

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