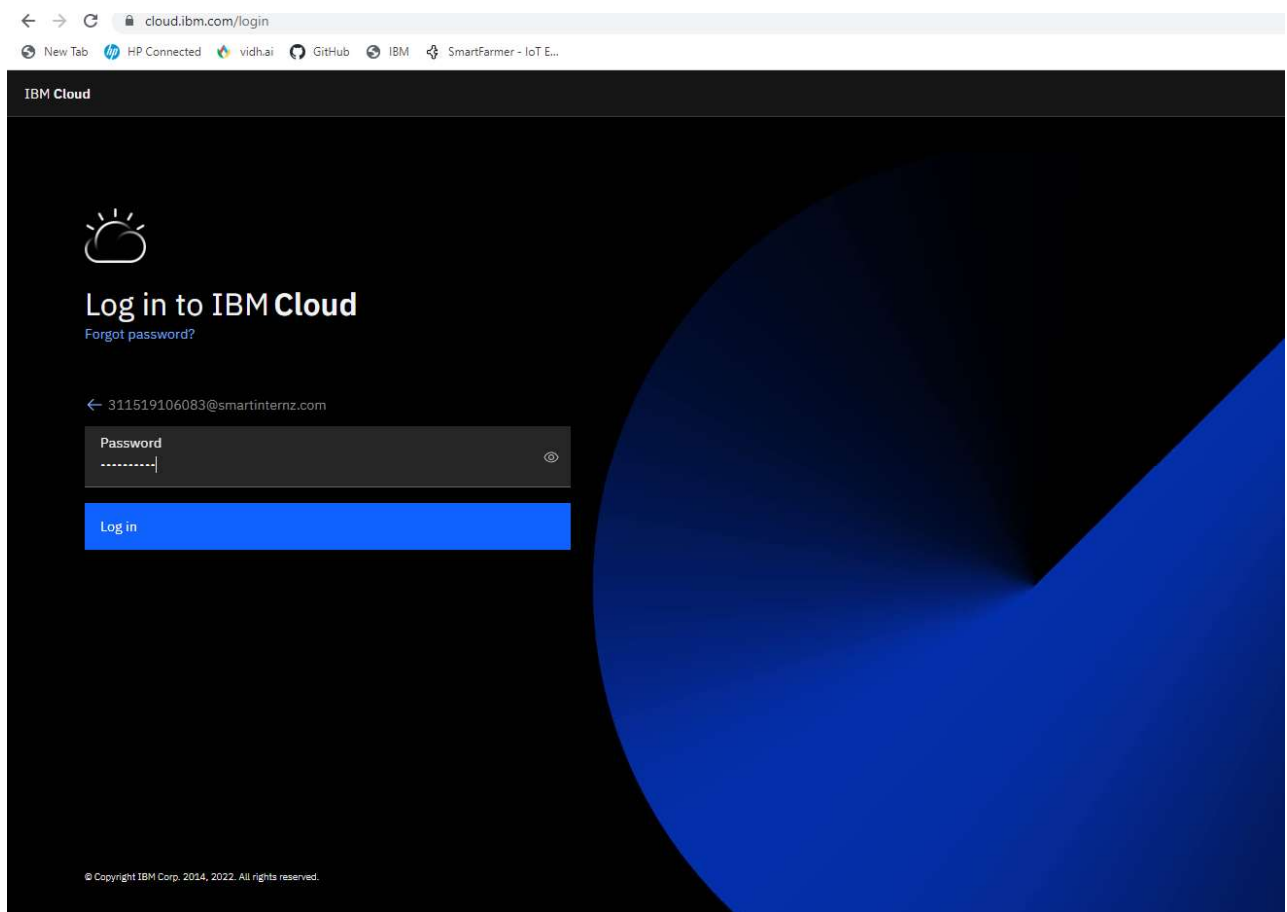


## CREATE IBM WATSON IOT PLATFORM AND DEVICE

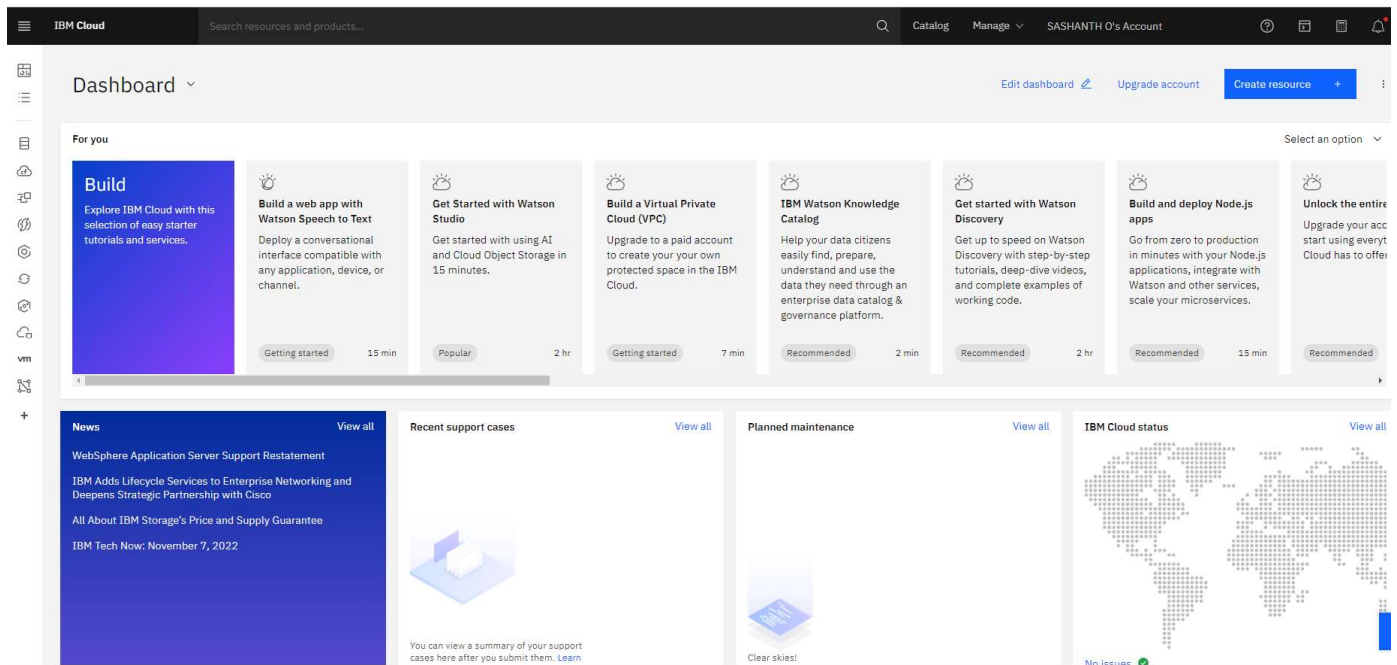
<b>Date</b>	<b>14-11-2022</b>
<b>Team ID</b>	<b>PNT2022TMID27964</b>
<b>Maximum Marks</b>	<b>4 Marks</b>
<b>Project Title</b>	<b>Smart Farmer - IoT Enabled Smart Farming Application</b>

### STEPS INVOLVED :

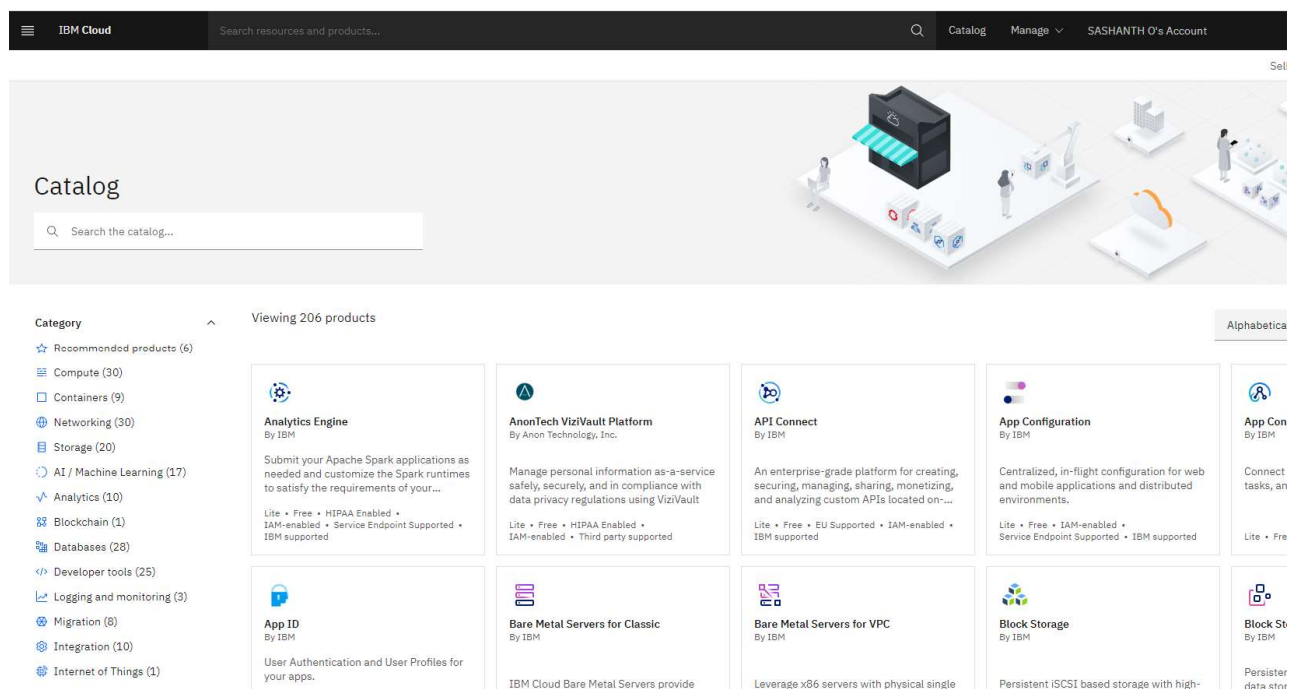
1. Firstly create an IBM cloud account with IBM-id and password



2. After creating account and logging in the home page of IBM cloud is shown as follow :



3. Click on the catalog on the top Right corner of the screen and select IoT category



#### 4.The IoT platform will open up as follow select the pricing and lite plan of the IoT Watson profile :

IBM Cloud

Search resources and products...

Catalog Manage SASHANTH O'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 Dallas Washington DC

Related links Docs Terms

Select a location

Frankfurt (eu-de)

Select a pricing plan

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

Plan	Features	Pricing
Lite	<ul style="list-style-type: none"><li>Includes up to 500 registered devices, and a maximum of 200 MB of each data metric</li><li>Maximum of 500 registered devices</li><li>Maximum of 500 application bindings</li><li>Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed</li></ul> <p>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.</p> <p>Lite plan services are deleted after 30 days of inactivity.</p>	Free

Configure your resource

Service name

Select a resource group

Summary

Internet of Things Platform Free

Location: Frankfurt

Plan: Lite

Service name: Internet of Things Platform-06

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.Now the IBM IoT Watson platform should open up. Click on launch.

IBM Cloud

Search resources and products...

Catalog Manage SASHANTH O's Account

Resource list /

Internet of Things Platform-9t Active Add tags

Manage

Plan

Connections

Let's get started with IBM Watson IoT Platform

Securely connect, control, and manage devices. Quickly build IoT applications that analyze data from the physical world.

Launch Docs

Ready for the next level?

IBM Watson IoT Platform Journey

Lite

The Lite service plan provides a lightweight development environment to get you started with the connectivity capabilities of Watson IoT Platform.

- Free
- 200 MB data-transfer limit
- 500 application bindings limit
- 500 registered devices limit

Non-Production

The Non-Production service plan is a full-featured, fully-integrated offering that enables you to explore Watson IoT Platform to see how the service can fit into your IoT environment.

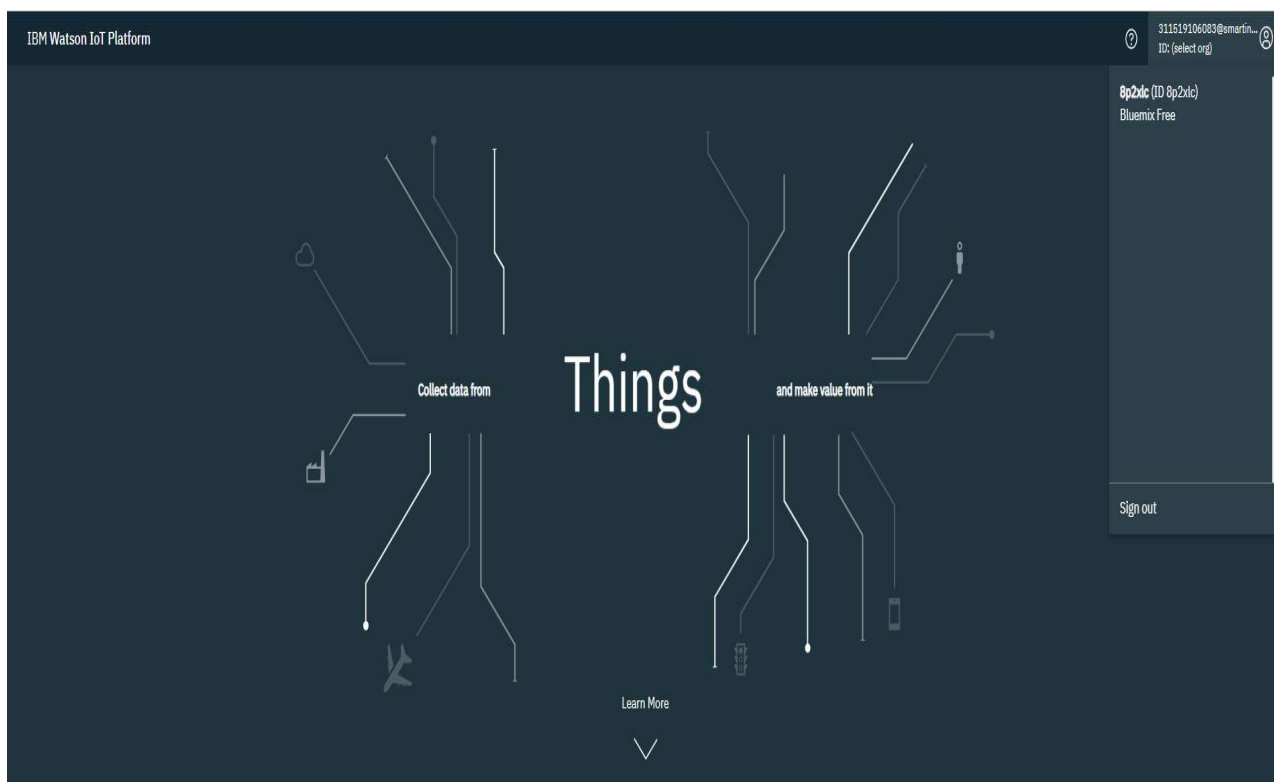
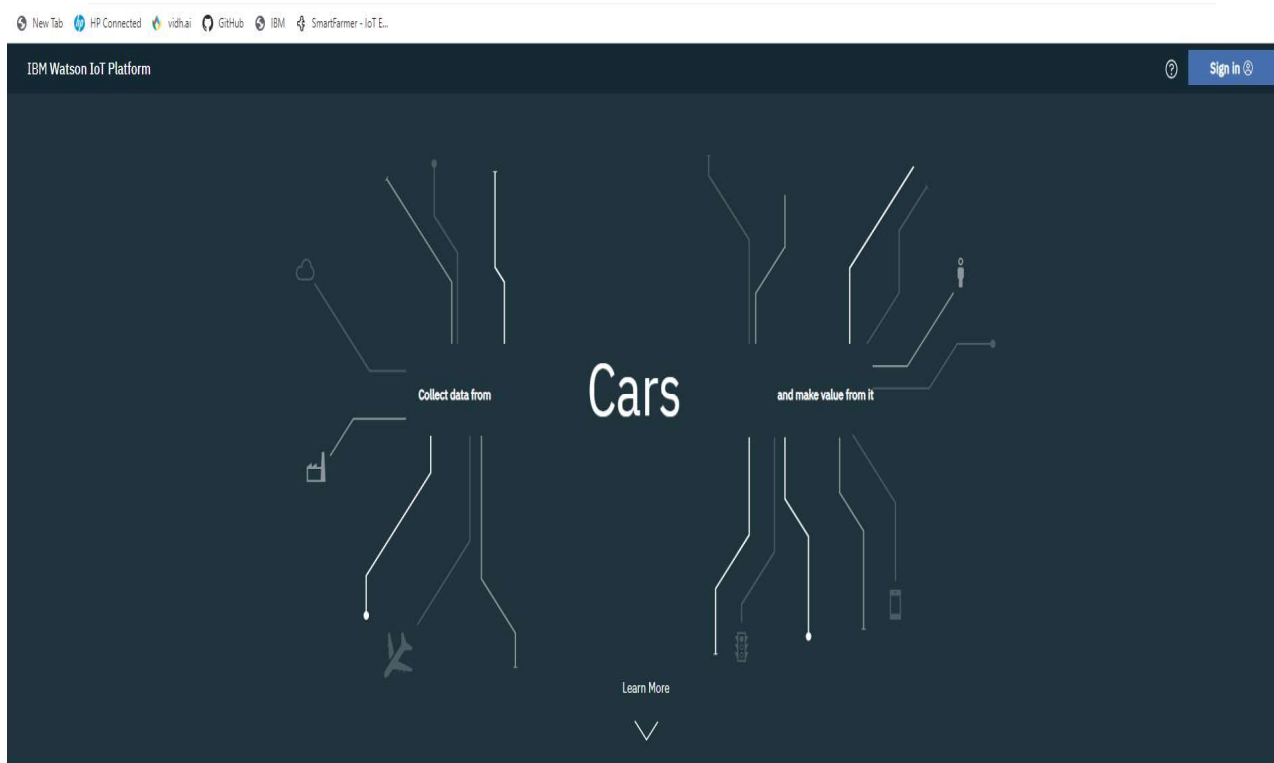
- Starts at \$500 per month
- Capacity limit based on device type
- Optional Analytics Service and Blockchain Service add-ons

Production

The Production service is a fully managed SaaS offering that enables you to manage and analyze enterprise IoT data.

- Includes IBM Service & Support
- Pricing based on number of devices per device type
- Optional Analytics Service and Blockchain Service add-ons

6. Once the IoT Watson platform opens up sign in into it using your IBM account and select the lite plan



7. Now the IBM Watson should open up something like this and we have successfully created the IBM Watson platform for our project. Now to create a device click on add device on top right corner

IBM Watson IoT Platform

311519106083@smartinternz.com  
ID: 8p2xlc

Browse Action Device Types Interfaces

Add Device

## Browse Devices

All Devices Diagnose

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.

Search by Device ID

Device Simulator

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	Added By	Device Class
1234	Disconnected	ABCDE	Device	Nov 7, 2022 6:13 PM		311519106083@smartinternz.com	

Items per page 50 | 1-1 of 1 item

1 of 1 page

8. Now give the Device a name and a unique ID

IBM Watson IoT Platform

311519106083@smartinternz.com  
ID: 8p2xlc

Browse Action Device Types Interfaces

## Add Device

Identity Device Information Security Summary

Select a device type for the device that you are adding and give the device a unique ID.

Device Type ABCDE

Device ID 12

Cancel Next

## 9. Add the device information if required.

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The progress bar indicates four steps: Identity (completed), Device Information (current), Security, and Summary. The 'Device Information' step contains a form with the following fields:

Field	Placeholder
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 the form is an 'Add Metadata' button with a plus icon. At the bottom right are 'Back' and 'Next' buttons.

## 10. Create a authentication token for the security purposes

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform, Step 3: Security. The progress bar shows Identity (completed), Device Information (completed), Security (current), and Summary. The 'Security' step 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 the options is an 'Authentication Token' input field. A red tooltip is visible over the field, stating: 'Please type a token having between 8 and 36 characters'. Below the input field, there is a note: 'Make a note of the tokens cannot be being stored.' and a sub-note: 'Authentication token are encrypted before we store them.'

At the bottom right are 'Back' and 'Next' buttons.

11. Once done , verify the entered details and click on finish device

IBM Watson IoT Platform

311519106083@smarinternz.com  
ID: 8p2ule

Browse Action Device Types Interfaces

### Add Device

Identity Device Information Security **Summary**

Verify that the following information is correct then select Finish

Device Type  
ABCDE

Device ID  
12

[View Metadata](#)

Security Token  
123456789

[Back](#) [Finish](#)

12. And we have added our device successfully.

IBM Watson IoT Platform

311519106083@smarinternz.com  
ID: 8p2ule

Browse Action Device Types Interfaces [Add Device](#)

### Browse Devices

[All Devices](#) [Diagnose](#)

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.

Search by Device ID

Device Simulator

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	Added By	Device Class
12	Disconnected	ABCDE	Device	Nov 14, 2022 11:47 PM		311519106083@smarinternz.com	