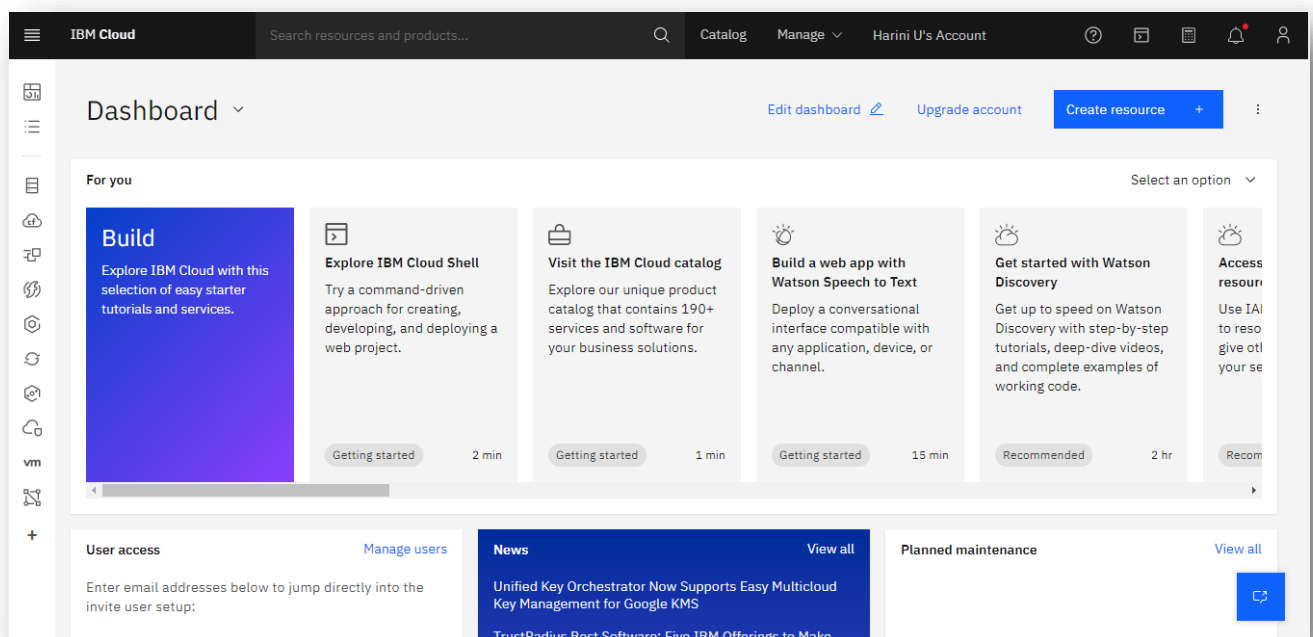


## Create And Configure IBM Cloud Services

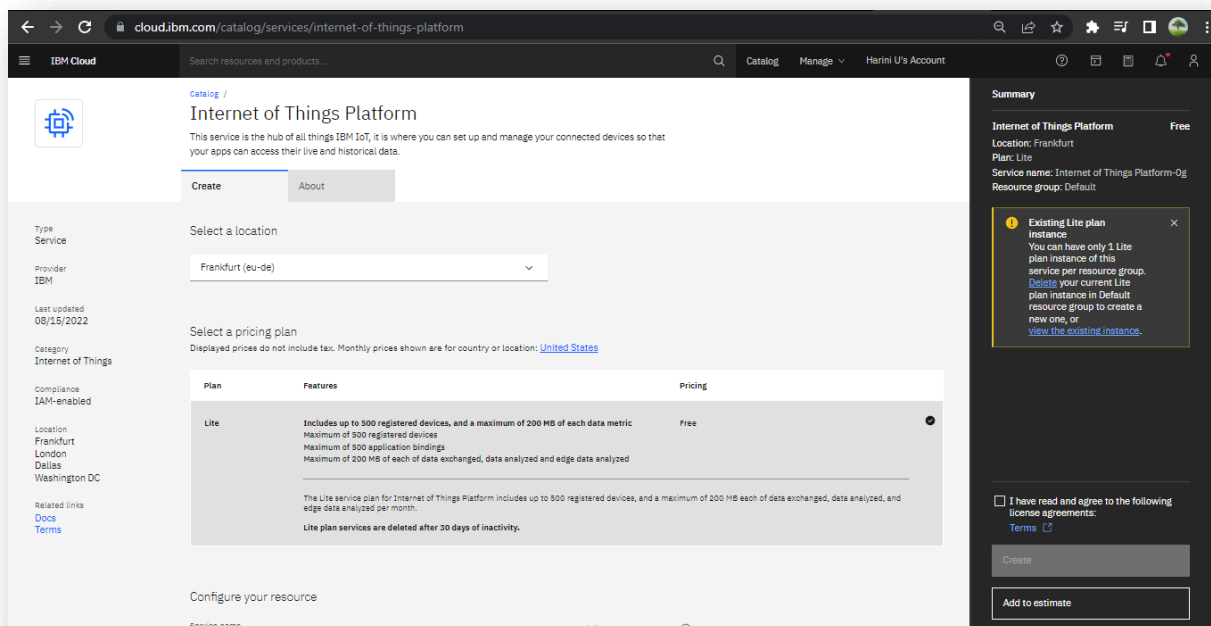
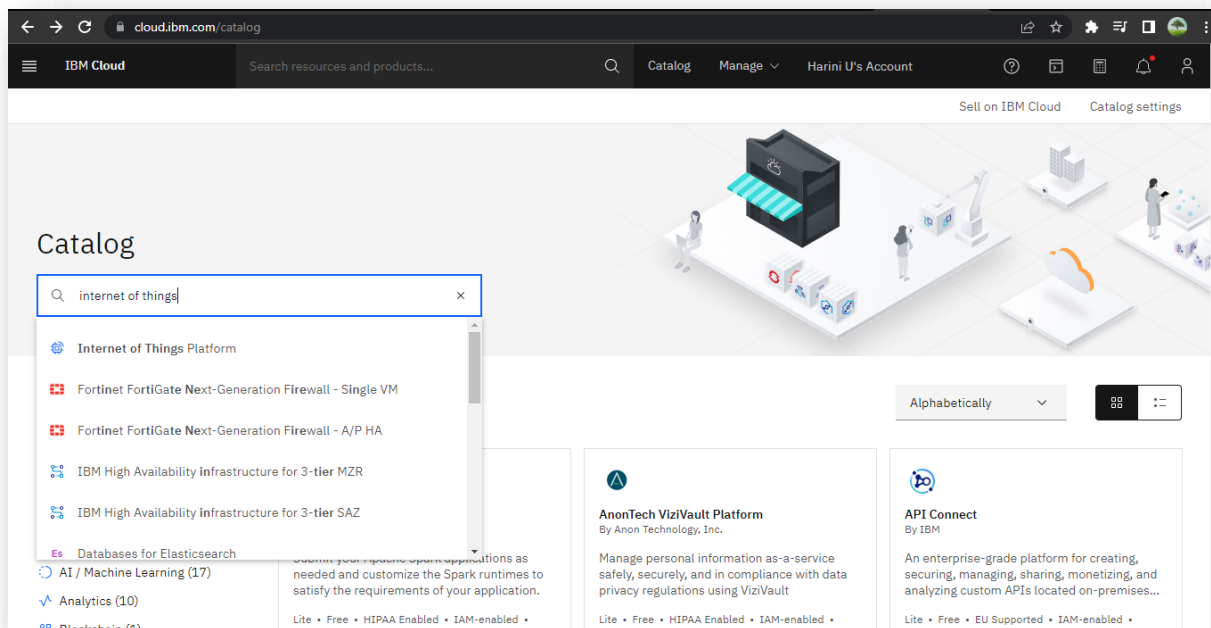
### Create The IBM Watson IoT Platform and A Device

Date	7 November 2022
Team ID	PNT2022TMID51073
Project Name	SmartFarmer - IoT Enabled Smart Farming Application

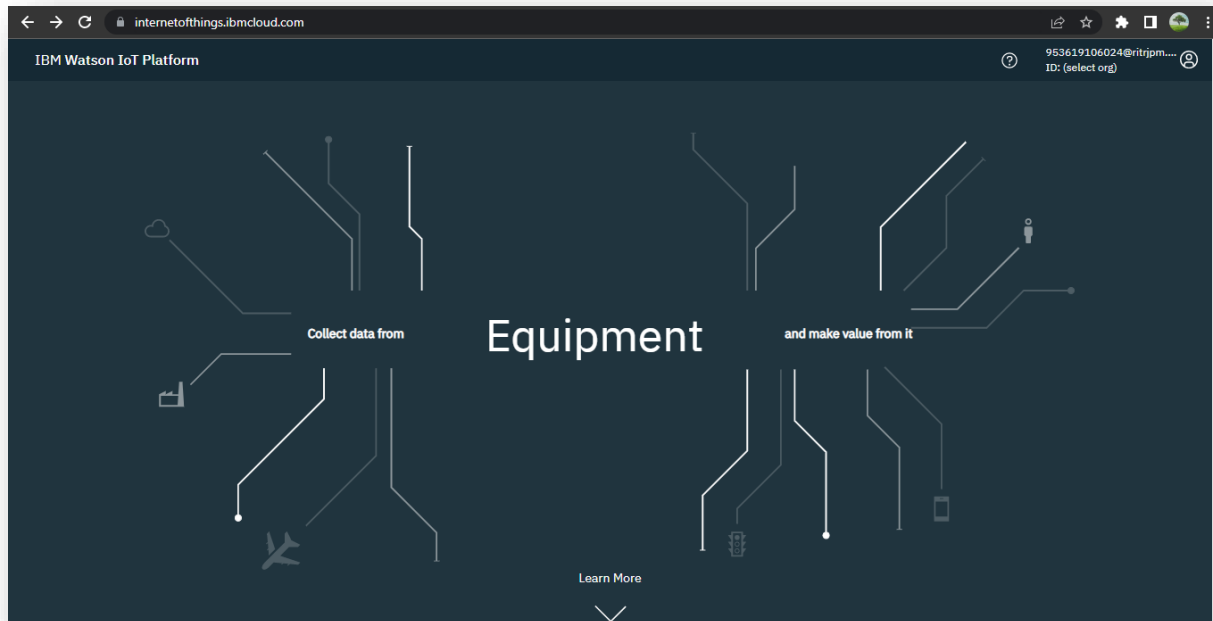
#### 1.Home page of ibm cloud



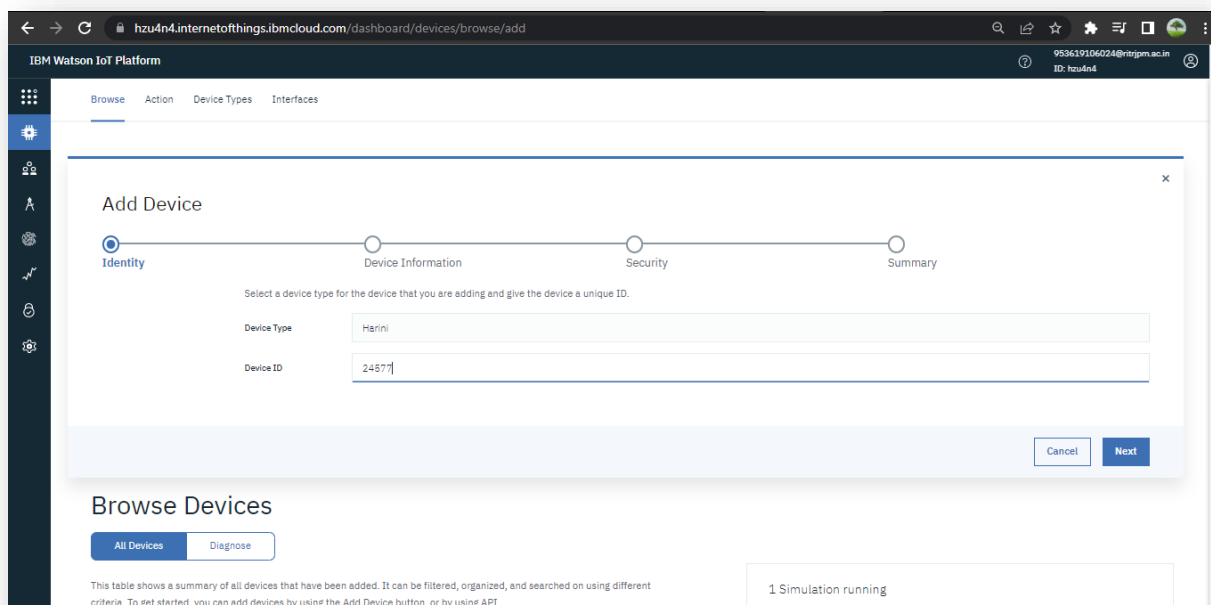
## 2. Click on the catalog on the top and choose internet of things platform



**3. Clicking on the launch button in the manage tab and after signing into iot , it will open to this page**



**4. And again clicking on the launch button will open this tab, the device will help in creation of the devices and display the details of the device**



## 5. This page is to enter extra details of the hardware

The screenshot shows the 'Add Device' form in the IBM Watson IoT Platform. The form is titled 'Add Device' and has a progress bar with four steps: Identity, Device Information, Security, and Summary. The 'Device Information' step is currently active. Below the progress bar, there is a message: 'You can modify the default device information and enter more information about the device for identification purposes.' The form contains several input fields: 'Serial Number' (with a placeholder 'Enter Serial Number'), 'Model' (with a placeholder 'Enter Model'), 'Description' (with a placeholder 'Enter Description'), 'Hardware Version' (with a placeholder 'Enter Hardware Version'), 'Manufacturer' (with a placeholder 'Enter Manufacturer'), 'Device Class' (with a placeholder 'Enter Device Class'), 'Firmware Version' (with a placeholder 'Enter Firmware Version'), and 'Descriptive Location' (with a placeholder 'Enter Descriptive Location'). There is also an 'Add Metadata' button. At the bottom right, there are 'Back' and 'Next' buttons. A notification at the bottom right says '1 Simulation running'.

## 6. Clicking next it goes to the security where we do authentication token id. Clicking on the next it goes to the summary of the device and click finish

The screenshot shows the 'Add Device' form in the IBM Watson IoT Platform, now at the 'Summary' step. The progress bar shows that 'Identity', 'Device Information', and 'Security' are completed, and 'Summary' is the current step. Below the progress bar, there is a message: 'Verify that the following information is correct then select Finish'. The form displays the following information: 'Device Type: Harini', 'Device ID: 24577', and 'Security Token: To be generated'. There is a 'View Metadata' button. At the bottom right, there are 'Back' and 'Finish' buttons.

## 7. Device credentials will display all details

The screenshot shows the 'Device Drilldown - 24577' page in the IBM Watson IoT Platform. The left sidebar contains a navigation menu with options: Back, Device Credentials, Connection Information, Recent Events, State, Device Information, Metadata, Diagnostics, Connection Logs, and Device Actions. The main content area is divided into two sections. The top section, 'Device Credentials', includes a warning icon and text: 'Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token.' Below this is a link 'Find out how to add these credentials to your device'. The bottom section, 'Connection Information', shows 'Device ID' as 24577 and '1 Simulation running'.

Organization ID	hzu4n4
Device Type	Harini
Device ID	24577
Authentication Method	use-token-auth
Authentication Token	4kCRm3OLOdBIYOA&m

Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token.

Find out how to add these credentials to your device

Connection Information

Basic connection information about this device.

Device ID: 24577

1 Simulation running

## 8. Clicking on device tab we can see the added device and it will display the other details. It has different tabs like identity, device information, state and login

The screenshot shows the 'Browse Devices' page in the IBM Watson IoT Platform. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The 'Browse' tab is selected. Below the navigation bar, there are tabs for 'All Devices' and 'Diagnose'. A message states: '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.' Below this is a search bar 'Search by Device ID' and a 'Device Simulator' toggle switch. A table displays the following data:

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	Added By
24577	Disconnected	Harini	Device	Nov 7, 2022 11:46 AM		953619106024@ritrjpm.ac.in

Items per page: 50 | 1-1 of 1 item

1 of 1 page

In similar way, we can create n number of devices with a 50 per page limit as per the requirement of the project.

9. The board will display card for the project.

