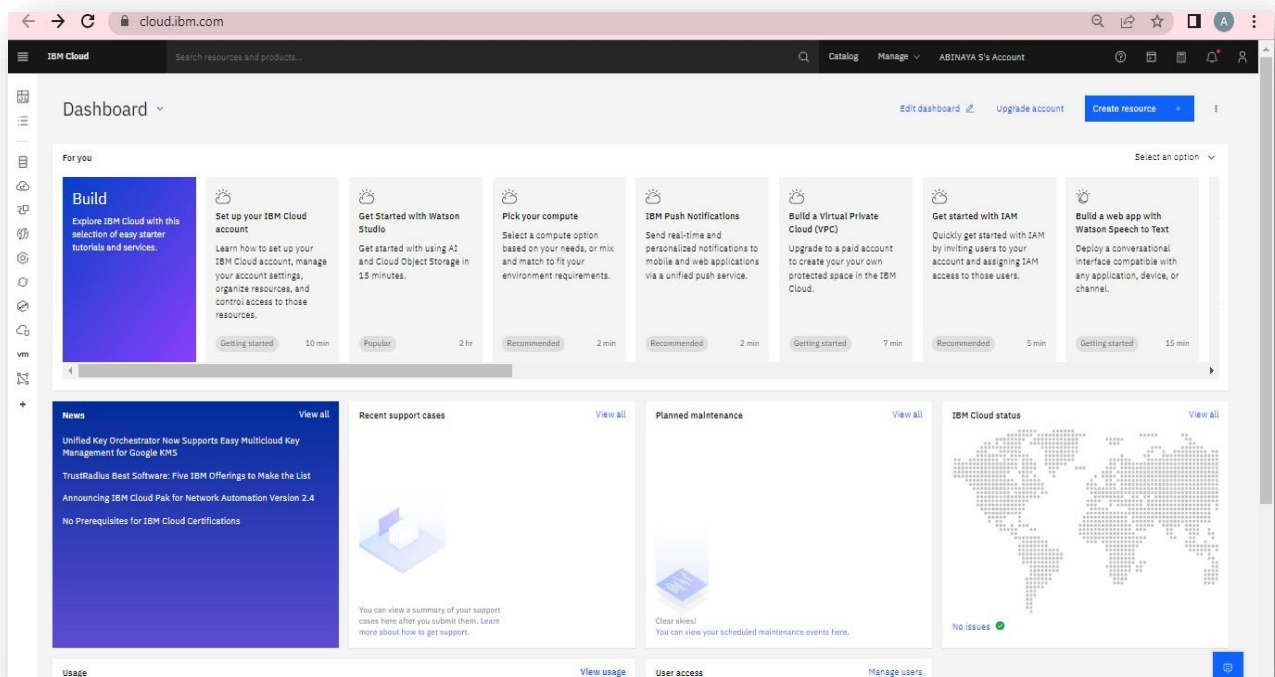


Create and Configure IBM Cloud Services-

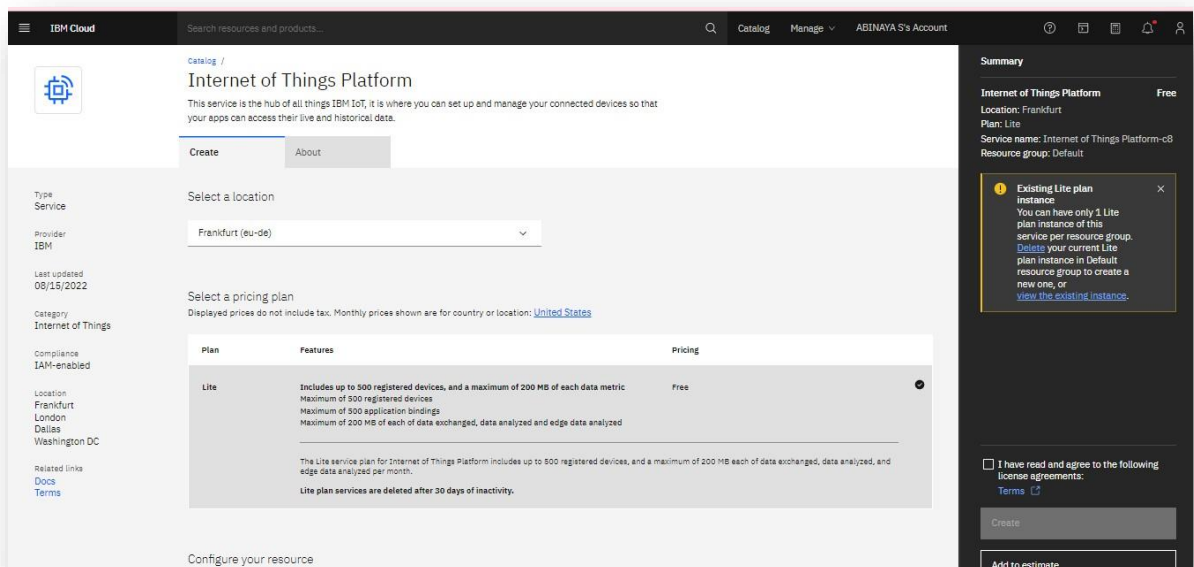
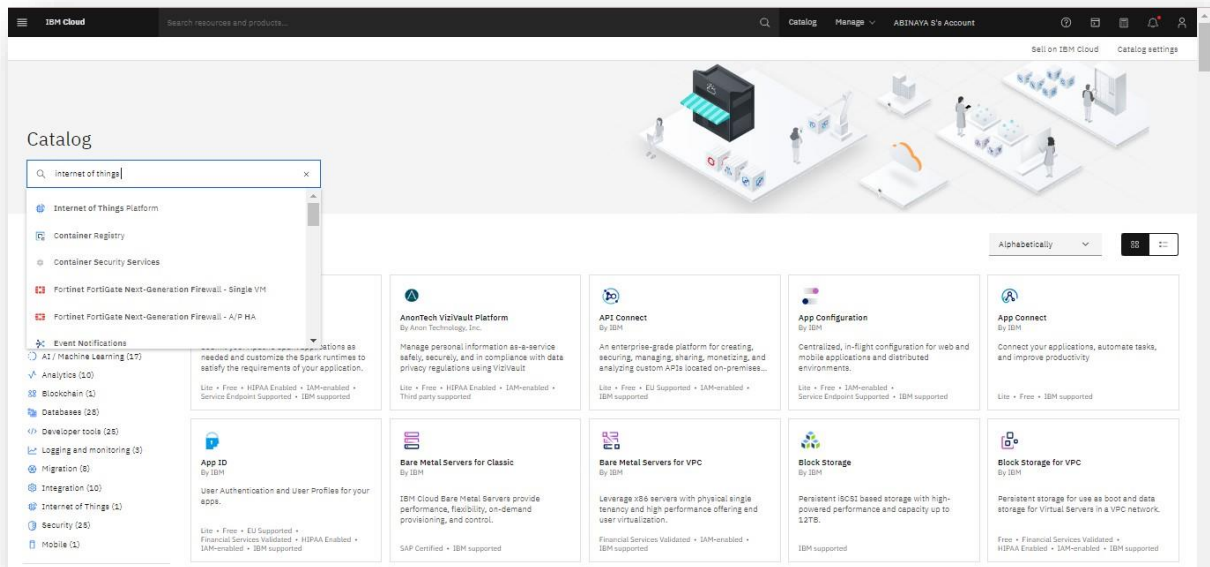
Create The IBM Watson IoT Platform and A Device

Date	7 November 2022
Team ID	PNT2022TMID14185
Project Name	Smart Farmer - IoT Enabled Smart Farming Application

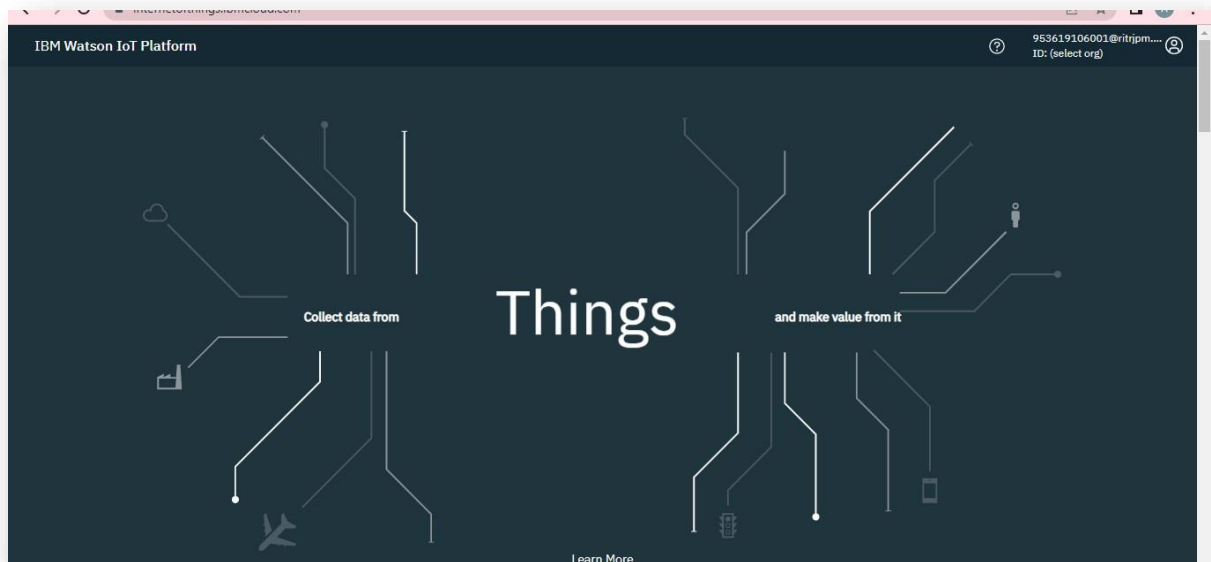
1.Home page of ibm cloud



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

The screenshot shows the 'Add Device' form in the IBM Watson IoT Platform. The header includes the 'IBM Watson IoT Platform' logo and a user profile with email '953619106001@nritrjpm.ac.in' and ID 'dmuidw'. The left sidebar contains a navigation menu with icons for 'Browse', 'Action', 'Device Types', and 'Interfaces'. The main content area is titled 'Add Device' and features a progress bar with four steps: 'Identity' (selected), 'Device Information', 'Security', and 'Summary'. Below the progress bar, there is a text input field for 'Device Type' with the value 'Abinaya' and a text input field for 'Device ID' with the value '312002'. At the bottom right, there are 'Cancel' and 'Next' buttons.

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

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 two columns of input fields. The left column includes 'Serial Number', 'Model', 'Description', and 'Hardware Version'. The right column includes 'Manufacturer', 'Device Class', 'Firmware Version', and 'Descriptive Location'. Each field has a placeholder text 'Enter [field name]'. Below the left column is an 'Add Metadata' button with a plus icon. At the bottom right are 'Back' and 'Next' buttons.

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

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' wizard in the IBM Watson IoT Platform, now at the 'Summary' step. The progress bar shows 'Identity', 'Device Information', 'Security', and 'Summary' (current). The 'Summary' step displays the following information: 'Device Type: Abinaya', 'Device ID: 312002', and 'Security Token: To be generated'. There is a 'View Metadata' button below the device information. At the bottom right are 'Back' and 'Finish' buttons.

Field	Value
Device Type	Abinaya
Device ID	312002
Security Token	To be generated

7. Device credentials will display all details

The screenshot shows the 'Device Drilldown - 312002' page in the IBM Watson IoT Platform. The left sidebar contains navigation links: Device Credentials, Connection Information, Recent Events, State, Device Information, Metadata, Diagnostics, Connection Logs, and Device Actions. The main content area is titled 'Device Credentials' and includes a warning about non-recoverable authentication tokens. Below this, the 'Connection Information' section is partially visible.

Device Credentials

You registered your device to the organization. Add these credentials to the device to connect it to the platform. After the device is connected, you can navigate to view connection and event details.

Organization ID	dmuldw
Device Type	Abinaya
Device ID	312002
Authentication Method	use-token-auth
Authentication Token	HdUasqfNy2rCjcB9X0

Connection Information

Basic connection information about this device.

Device ID	312002
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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 page has tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. The 'Browse' tab is active, showing a table of devices. The table has columns for Device ID, Status, Device Type, Class ID, and Date Added. The first device listed is 312002, which is Disconnected, of type Abinaya, and was added on Nov 7, 2022 12:28 PM.

Browse Devices

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.

Device ID	Status	Device Type	Class ID	Date Added
312002	Disconnected	Abinaya	Device	Nov 7, 2022 12:28 PM

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

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.

