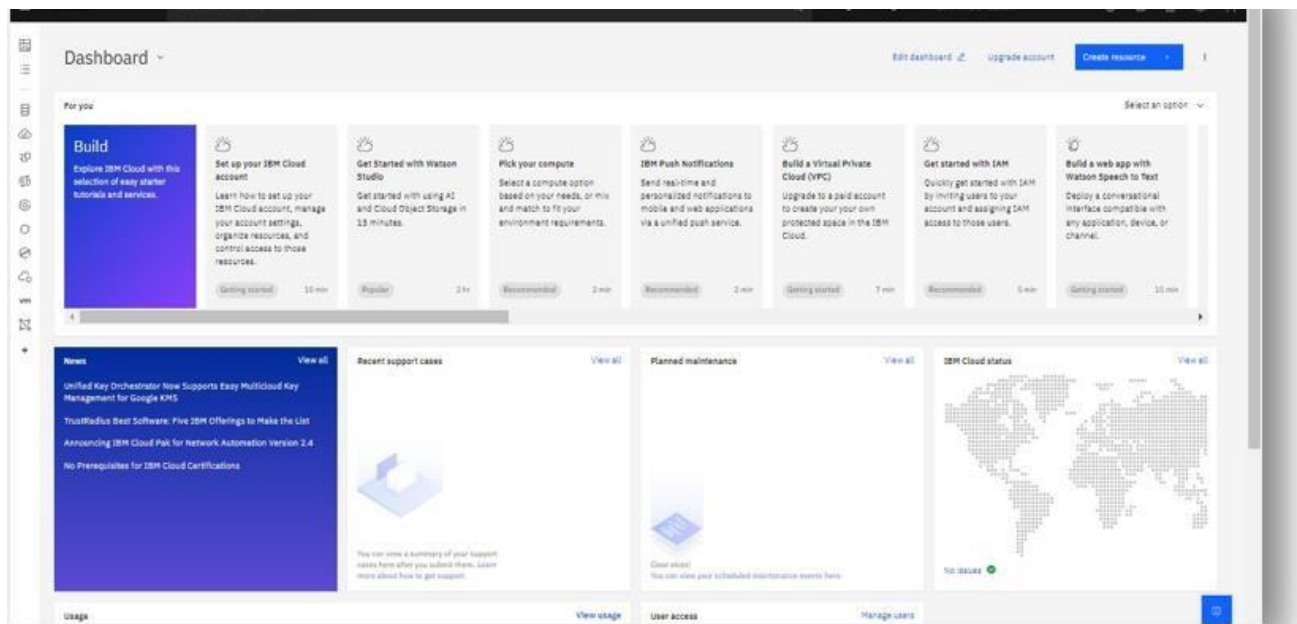


Create and Configure IBM Cloud Services-

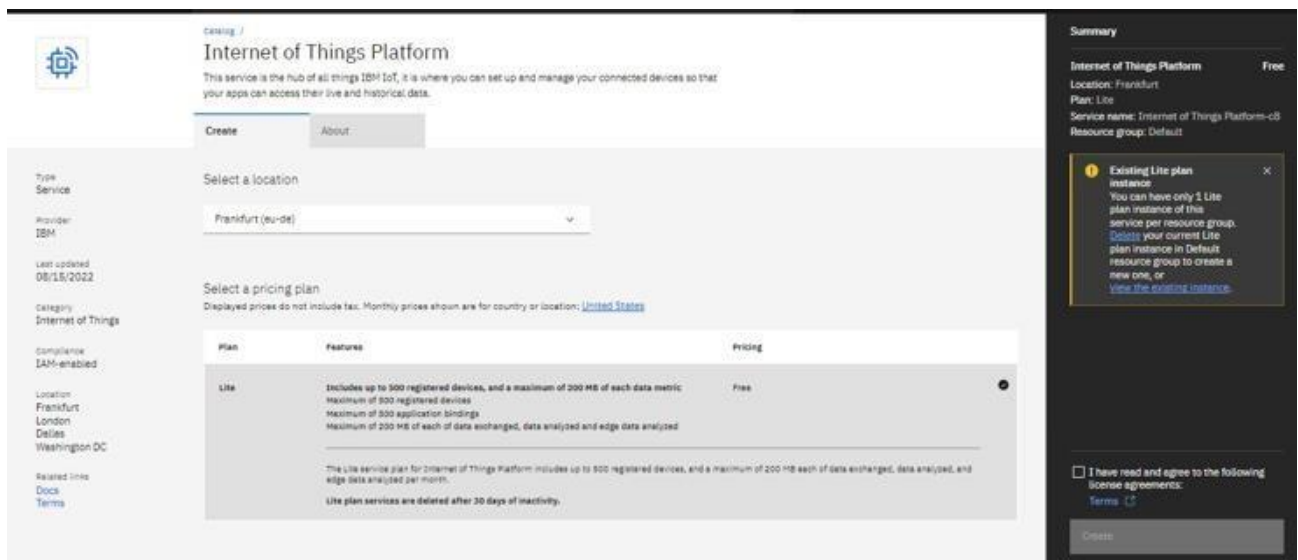
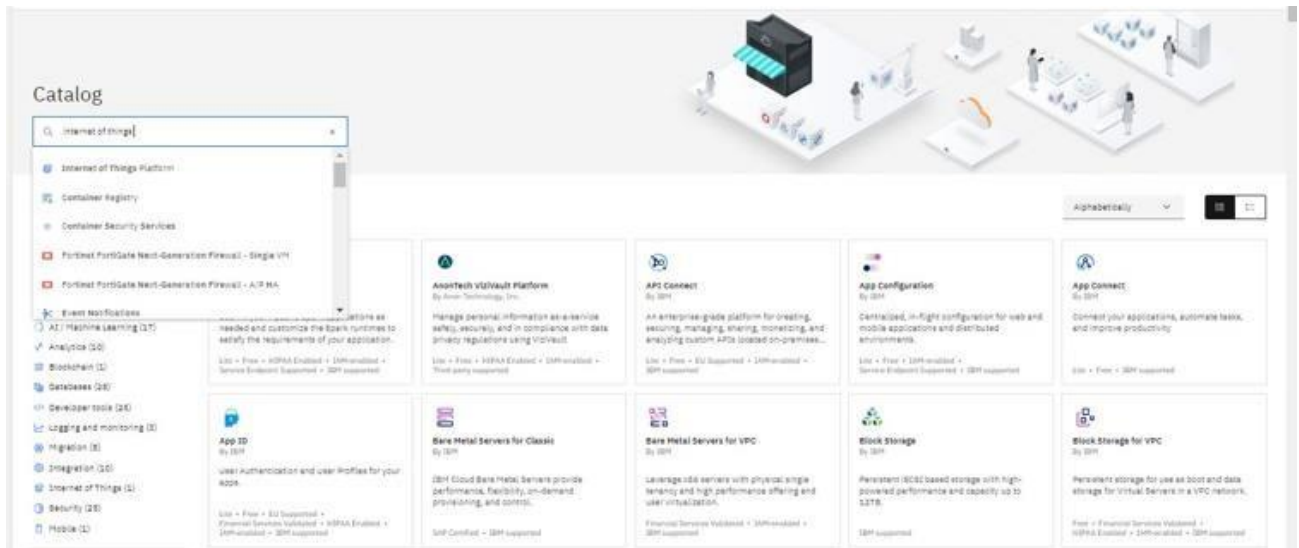
Create The IBM Watson IoT Platform and A Device

Date	7 November 2022
Team ID	PNT2022TMID19524
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

A screenshot of the 'Add Device' form in the AWS IoT console. The form is titled 'Add Device' and has a close button (X) in the top right corner. It features a progress bar with four steps: 'Identity' (selected), 'Device Information', 'Security', and 'Summary'. Below the progress bar, there is a text prompt: '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 value 'Abinaya' and 'Device ID' with the value '312002'. At the bottom right, there are 'Cancel' and 'Next' buttons. The left sidebar shows the AWS IoT console navigation menu.

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

The screenshot shows the 'Add Device' form with four steps: Identity, Device Information, Security, and Summary. The 'Device Information' step is active. The form contains two columns of input fields. The left column has fields for 'Serial Number', 'Model', 'Description', and 'Hardware Version'. The right column has fields for 'Manufacturer', 'Device Class', 'Firmware Version', and 'Descriptive Location'. Each field has a placeholder text 'Enter [field name]'. Below the left column is a button labeled 'Add Metadata'. At the bottom right are 'Back' and 'Next' buttons.

Browse Action Device Types Interfaces

Add Device

Identity Device Information Security Summary

You can modify the default device information and enter more information about the device for identification purposes.

Serial Number	Enter Serial Number	Manufacturer	Enter Manufacturer
Model	Enter Model	Device Class	Enter Device Class
Description	Enter Description	Firmware Version	Enter Firmware Version
Hardware Version	Enter Hardware Version	Descriptive Location	Enter Descriptive Location

Add Metadata

Back Next

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 with four steps: Identity, Device Information, Security, and Summary. The 'Summary' step is active. The form displays the following information: 'Device Type: A218458', 'Device ID: 512002', and 'Security Token: To be generated'. There is a button labeled 'View Metadata'. At the bottom right are 'Back' and 'Finish' buttons.

Browse Action Device Types Interfaces

Add Device

Identity Device Information Security Summary

Verify that the following information is correct then select Finish

Device Type	A218458
Device ID	512002
Security Token	To be generated

View Metadata

Back Finish

7. Device credentials will display all details

The screenshot shows the 'Device Drilldown - 312002' page. On the left is a sidebar with navigation links: Device Credentials (selected), Connection Information, Recent Events, State, Device Information, Metadata, Diagnostics, Connection Logs, and Device Actions. The main content area has a 'Device Credentials' section with a warning icon and text: '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.' Below this is a table of credentials:

Organization ID	dmuidw
Device Type	Abinaya
Device ID	312002
Authentication Method	use-token-auth
Authentication Token	HSUasgfljyPnCjCB9K

Below the table is a warning message: 'Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token.' and a link 'Find out how to add these credentials to your device'. At the bottom is a 'Connection Information' section with the text 'Basic connection information about this device:' and a table showing 'Device ID' as '312002'.

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. At the top right is an 'Add Device' button. Below the header are tabs: Browse (selected), Action, Device Types, and Interfaces. There are two buttons: 'All Devices' (selected) and 'Diagnose'. A text block 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. The main table has columns: Device ID, Status, Device Type, Class ID, and Date Added. It contains one row for device ID 312002, which is 'Disconnected' and of type 'Abinaya'. At the bottom, it shows 'Items per page: 50' and '1 of 1 page'.

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

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.

