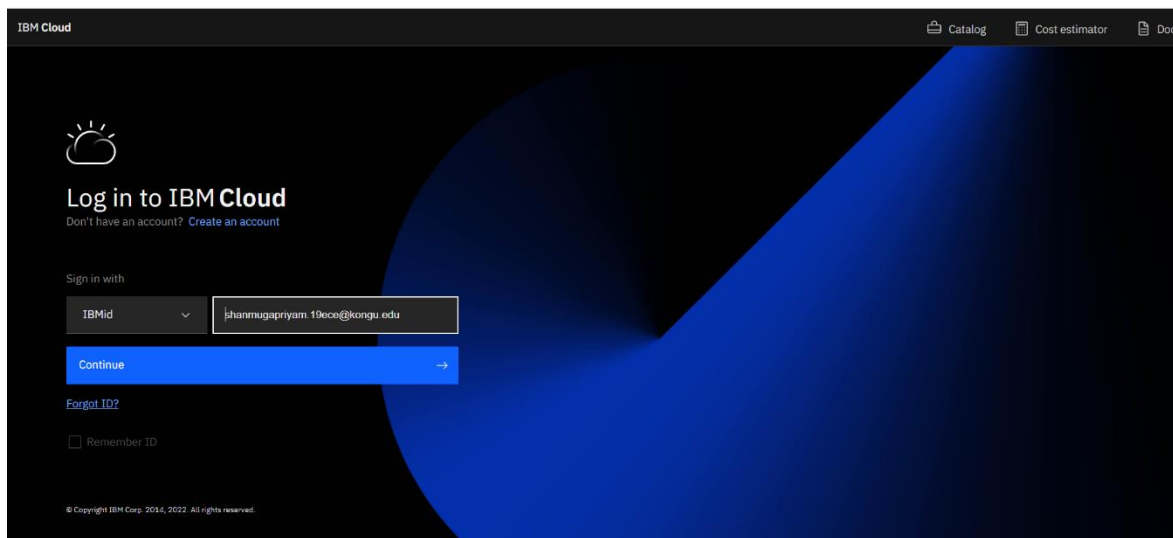


Assignment Date	15 NOVEMBER 2022
Team ID	PNT2022TMID04753
Topic	Smart Farmer - IoT Enabled Smart Farming Application

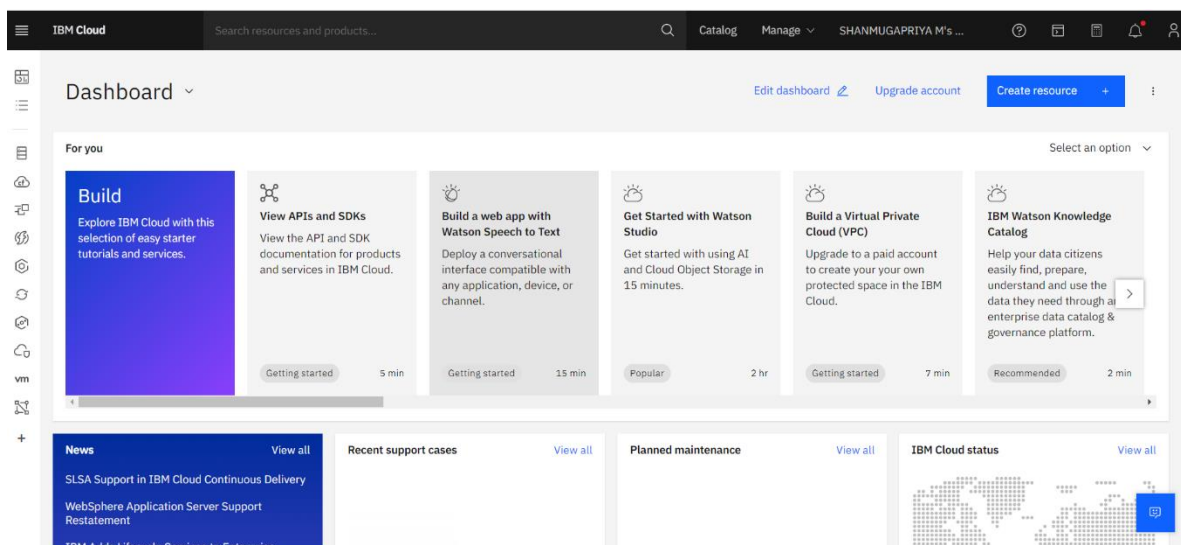
IBM WATSON IOT PLATFORM AND A DEVICE

STEP 1:

Log in to IBM Cloud

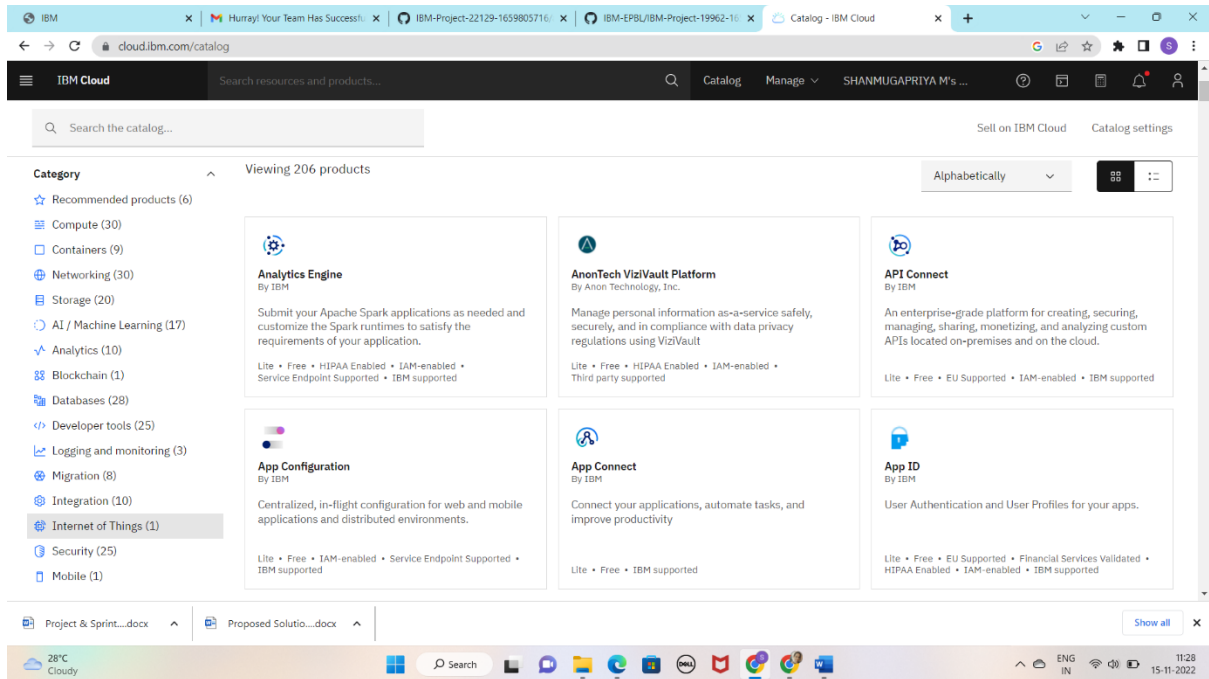


STEP 2:



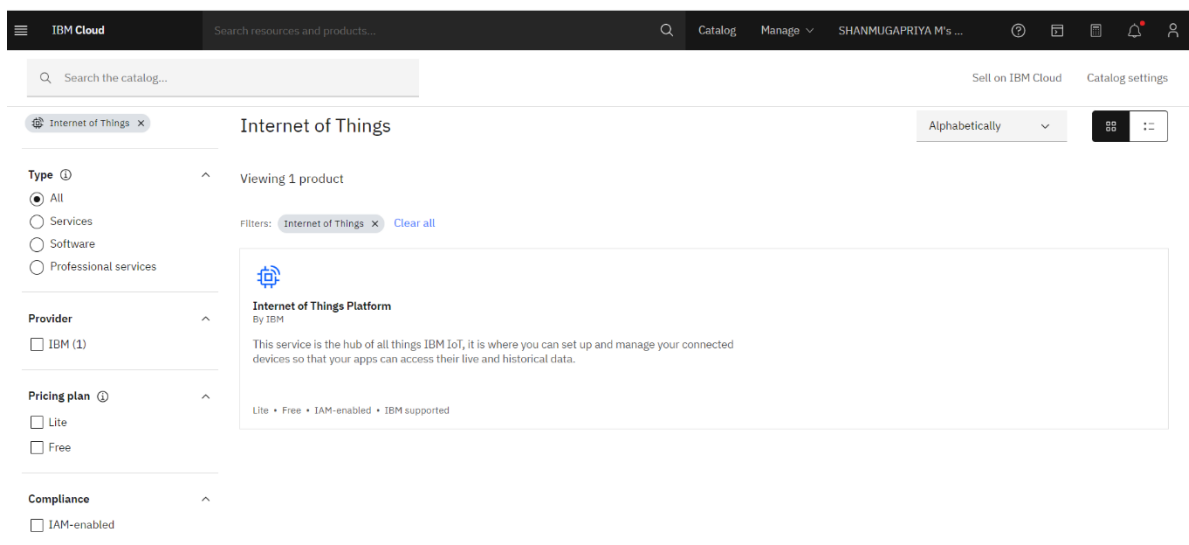
STEP 3:

Then add new resources in that go to Internet of Things



STEP 4:

After clicking Internet of Things go to Internet of Things Platform .



STEP 5:

Create a Internet of Things Platform

The screenshot shows the IBM Cloud 'Internet of Things Platform' creation page. The left sidebar lists service details: Type (Service), Provider (IBM), Last updated (08/15/2022), Category (Internet of Things), Compliance (IAM-enabled), and Location (Frankfurt, London, Dallas, Washington DC). The main content area has two tabs: 'Create' (active) and 'About'. Under 'Create', there are two sections: 'Select a location' with a dropdown menu showing 'Frankfurt (eu-de)', and 'Select a pricing plan' with a table of available plans.

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

On the right, a 'Summary' panel shows: Internet of Things Platform, Free, Location: Frankfurt, Plan: Lite, Service name: Internet of Things Platform-8e, Resource group: Default. Below this is a warning about the 'Existing Lite plan instance' and a checkbox for license agreements.

STEP 6:

Launch the IBM Watson IoT Platform

The screenshot shows the IBM Cloud 'Internet of Things Platform-3j' management page. The left sidebar has 'Manage' selected, with sub-items 'Plan' and 'Connections'. The main content area features a large graphic of a device connected to a cloud, with the text 'Let's get started with IBM Watson IoT Platform' and a 'Launch' button. Below this is a section titled 'Ready for the next level?' with the heading 'IBM Watson IoT Platform Journey'. It shows three stages: 'Lite' (checked), 'Non-Production', and 'Production', each with a brief description of the service plan.

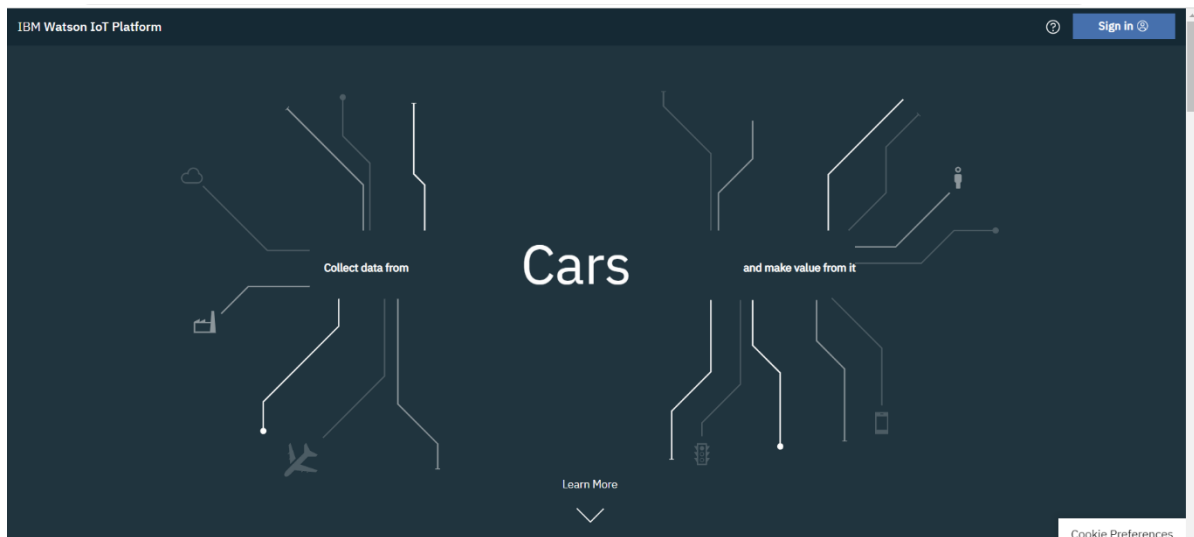
Ready for the next level?

IBM Watson IoT Platform Journey

- Lite** (checked)
The Lite service plan provides a lightweight development environment to get you started with the connectivity capabilities of Watson IoT
- 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
- Production**
The Production service is a fully managed SaaS offering that enables you to manage and analyze enterprise IoT data.

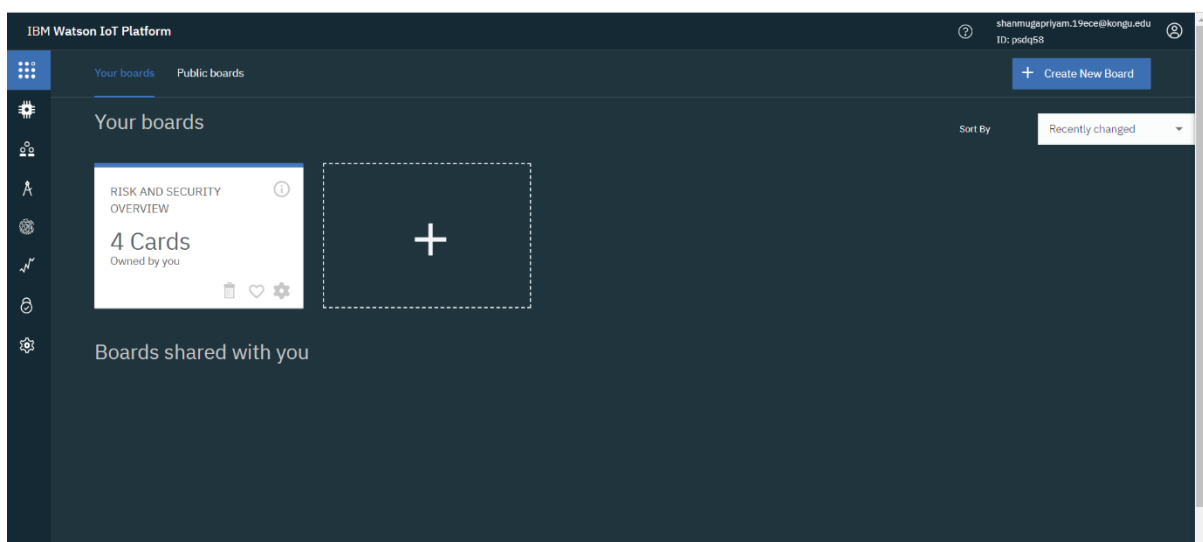
STEP 7:

Login to IBM cloud and then resource list. In Resource list go to ibm platform and then go to IBM watson IOT Platform and sign in to it.



STEP 8:

And then go to board followed by devices



STEP 9:

In devices select add devices and then add the device type and device ID and then Security Token and then click finish.

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
weather_today	Disconnected	weather_monitor	Device	Nov 8, 2022 3:34 PM

Identity Device Information Recent Events State Logs

Device ID weather_today
Device Type weather_monitor

1 Simulation running

STEP 10:

Browse Team Member

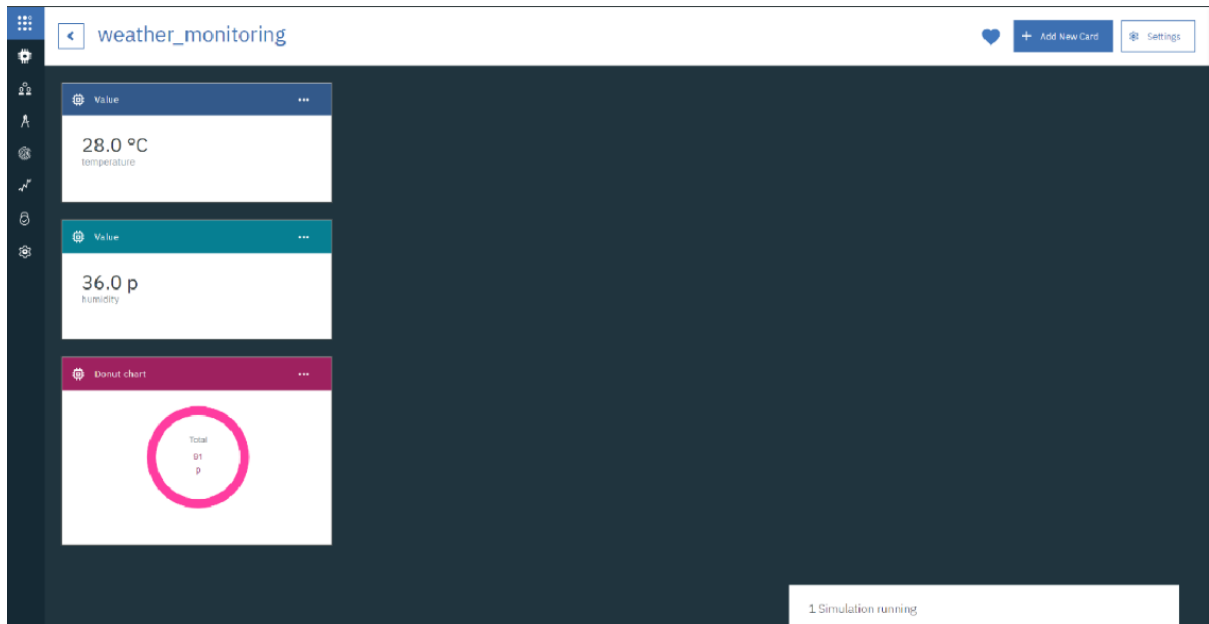
Browse Members

Type the member email to search for

This table shows a summary of the members of the organization. It can be filtered, organized, and search on using different criteria. To get started, you can add members by clicking Add Members, or by using the API. For more information about members, see [Managing user access](#).

Email Address	Name	Role	Added By	Expires
shanmugapriyam.19ece@kongu.edu	Shanmugapriya M	Administrator	-	-
sneha.19ece@kongu.edu	Sneha R	Reader	shanmugapriyam.19ece@ko...	-
sriharharani.19ece@kongu.edu	Sriharharan I	Reader	shanmugapriyam.19ece@ko...	-
sheeladevim.19ece@kongu.edu	Sheeladevi M	Reader	shanmugapriyam.19ece@ko...	-

STEP 11:



STEP 12:

Browse API Keys

The screenshot shows the 'Browse API Keys' page in the IBM Cloud Apps interface. The page has a search bar and a table of API keys. The table has columns for 'Key', 'Description', 'Role', and 'Expires'. There are 2 results listed. A status bar at the bottom right indicates '1 Simulation running'.

Key	Description	Role	Expires
a-49x4b9-a8af1vmthm	API Key for the device sim...	Standard Application	-
a-49x4b9-nsef8uc1x7	Real Time Weather Monito...	Standard Application	-

STEP 13:

Recent events

Device Simulator

Search by Device ID

Device IDStatusDevice TypeClass IDDate AddedDescriptive Location

weather_today

Disconnected

weather_monitoring

Device

Nov 13, 2022 9:51 AM

Identity

Device Information

Recent Events

State

Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
event_1	["temperature":65,"humidity":17,"soil":4]	json	a few seconds ago
event_1	["temperature":52,"humidity":10,"soil":79]	json	a few seconds ago
event_1	["temperature":77,"humidity":91,"soil":68]	json	a few seconds ago
event_1	["temperature":64,"humidity":92,"soil":95]	json	a few seconds ago
event_1	["temperature":46,"humidity":84,"soil":73]	json	1 Simulation running