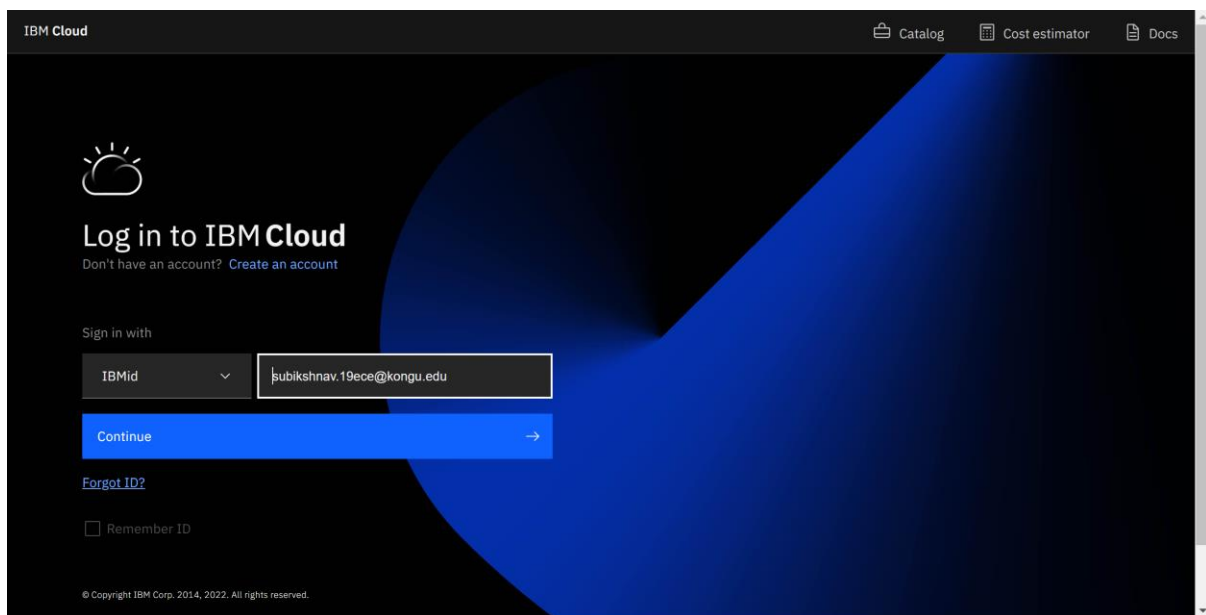


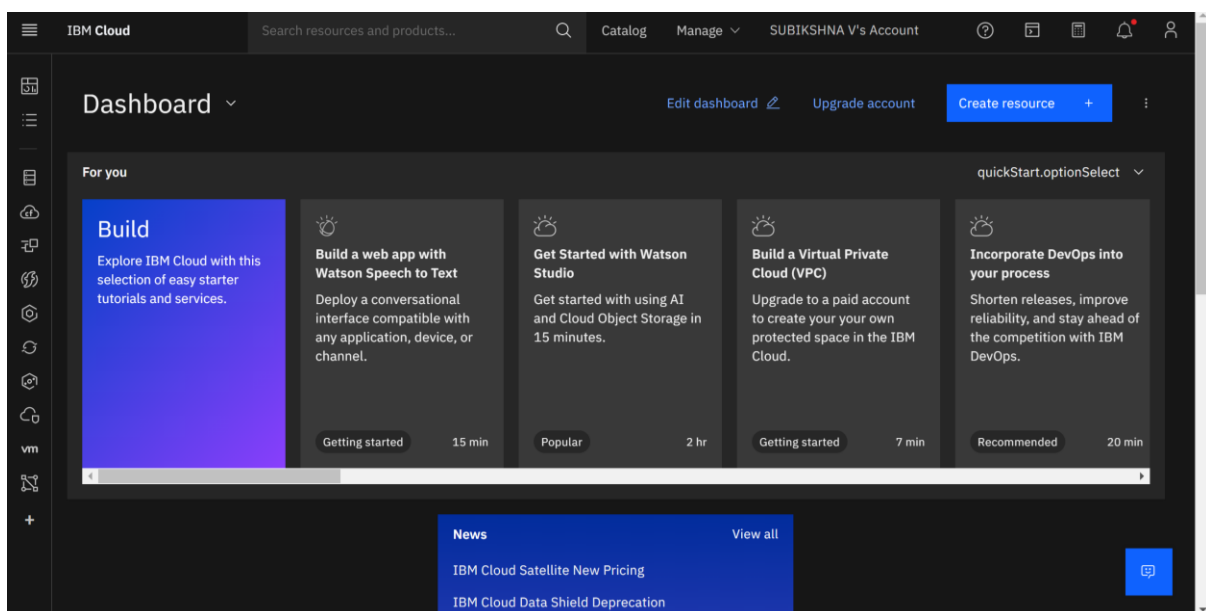
CREATE A IBM WATSON IOT PLATFORM AND A DEVICE

DATE	18 November 2022
TEAM ID	PNT2022TMD04755
PROJECT NAME	SmartFarmer – IOT Enabled Smart Farmer Application

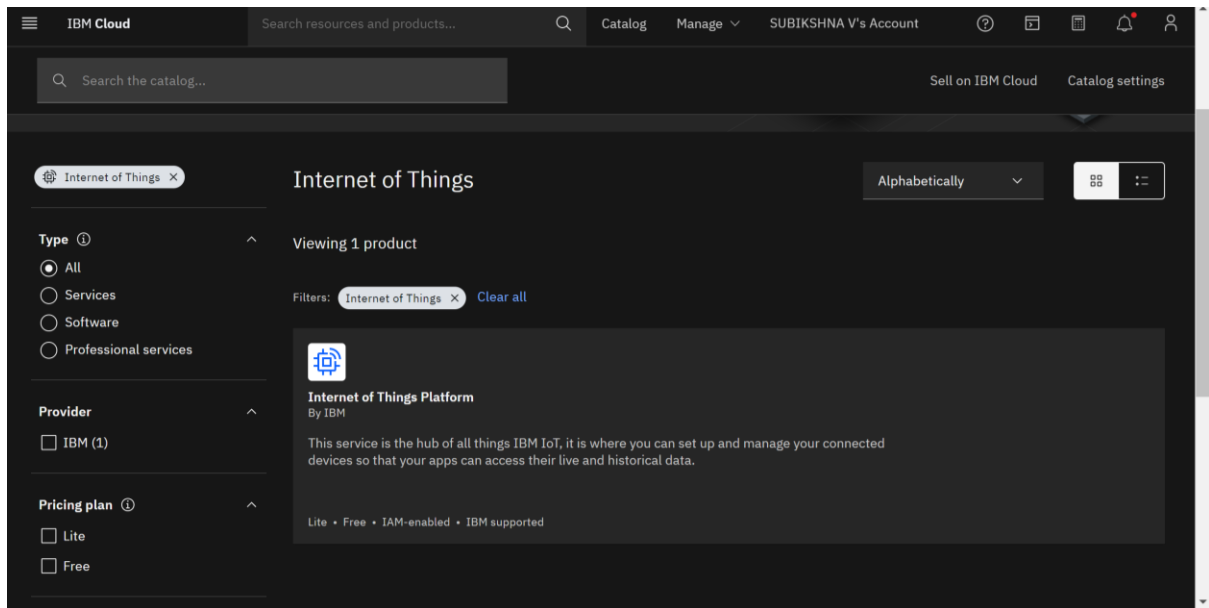
Login page of IBM Cloud:



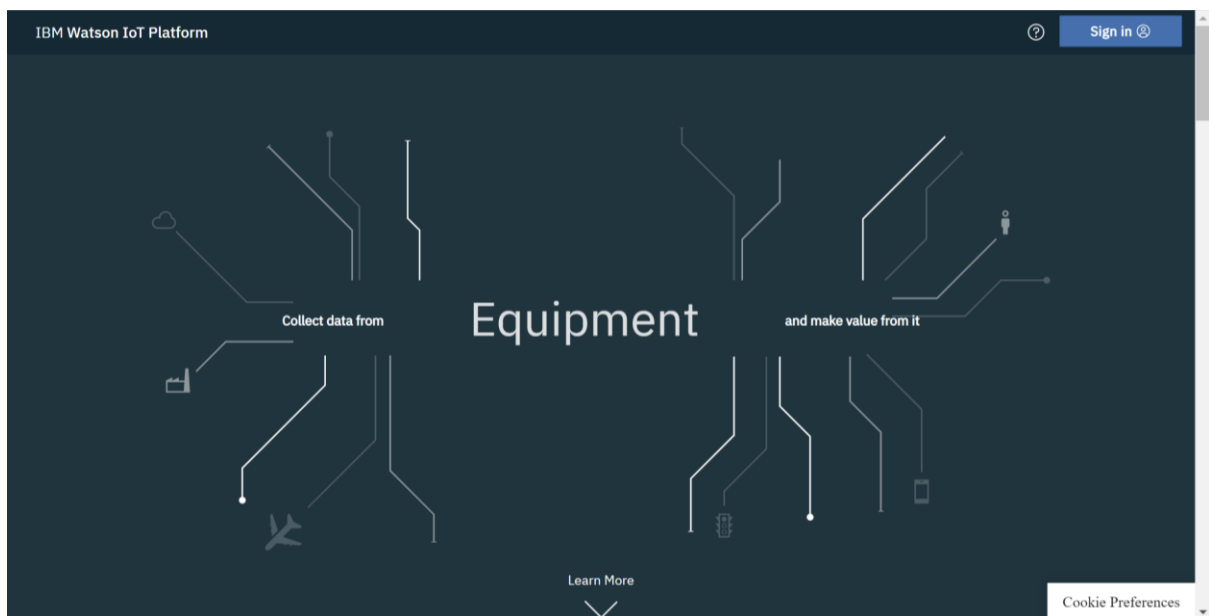
Dashboard of IBM cloud:



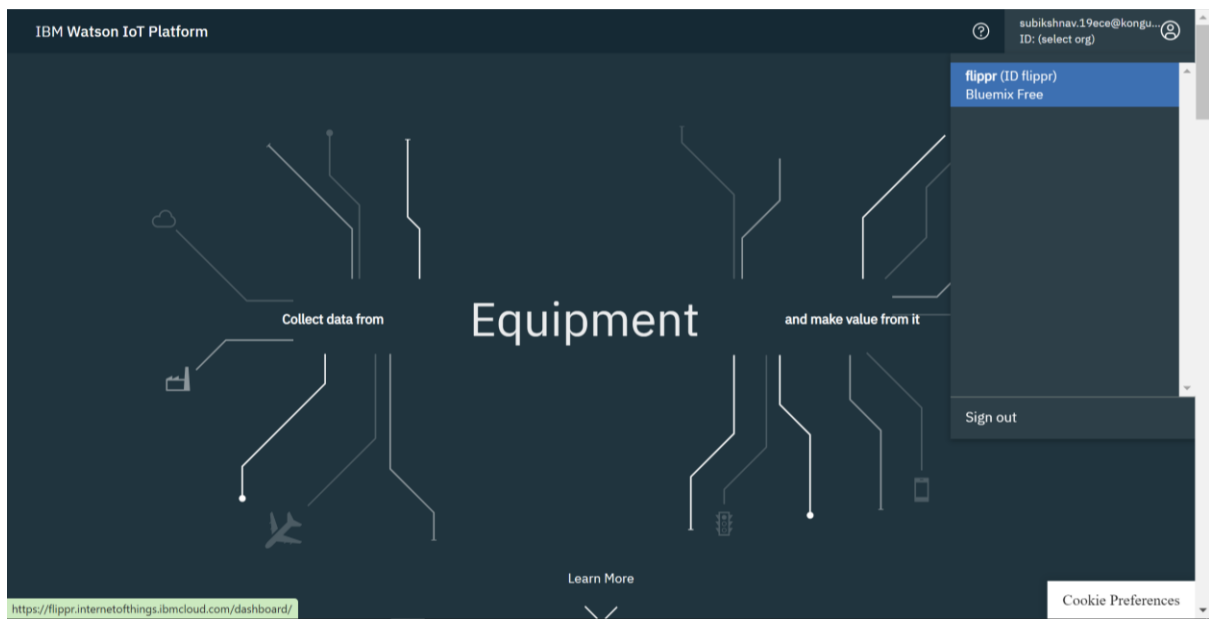
Adding IOT in IBM cloud:



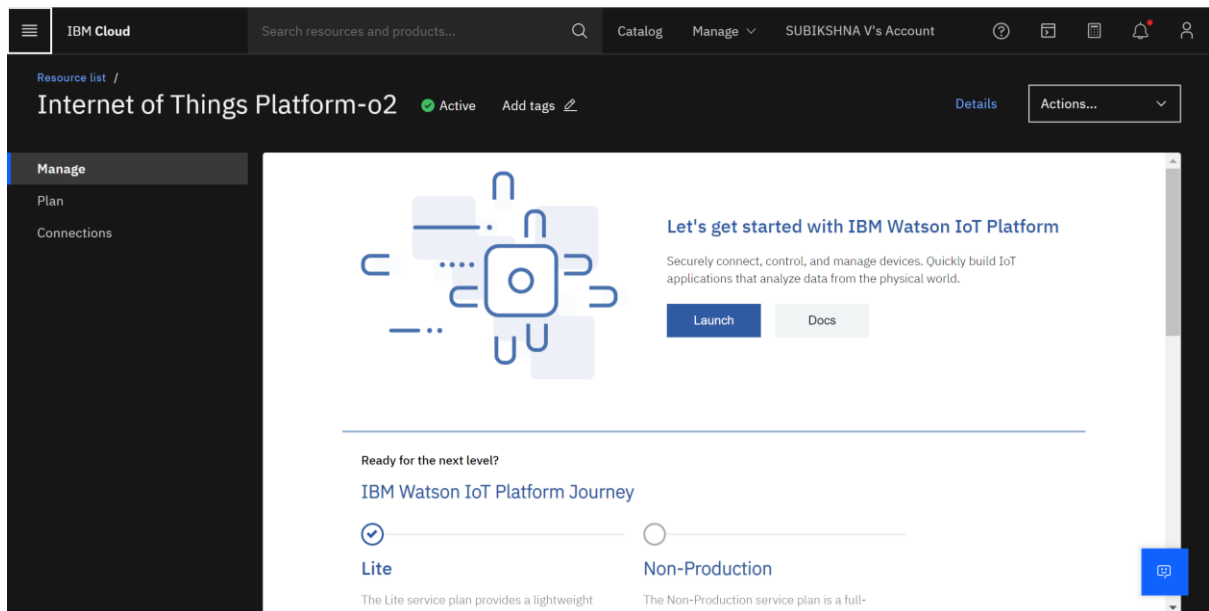
Home page of IBM Watson IoT platform:



Sign_in in IBM Watson :



Click the Launch to get start of IBM Watson:



Add the device to connect with IBM Watson:

IBM Watson IoT Platform

subikshnav.19ece@kongu.edu
ID: flippr

Browse Action **Device Types** Interfaces

Add Device Type

Device Types

This table lists all device types that are defined. You can filter the list and search for the name and description. You can modify and configure existing device types and add new device types.

🔍 Type the name to search...

<input type="checkbox"/>	Name	Description	Number of Devices	Class ID	Date Added
> <input type="checkbox"/>	ESP32_Controller		1	Device	Nov 15, 2022 12:08 PM

Items per page 10 | 1–1 of 1 item

1 of 1 page < 1 >

1 Simulation running

Create a new simulation to run the simulation:

IBM Watson IoT Platform

subikshnav.19ece@kongu.edu
ID: flippr

Browse Action **Device Types** Interfaces

Simulations

1/50 Simulations Running

+ New Simulation

Device Type ESP32_Controller

1 Event

1 Device

BME280_Sensor

1 x Create Simulated Device Use Registered Device

Device ID	Status	Device Type
BME280_Sensor	Disconnected	ESP32_Controller

Identity Device Information **Recent Events**

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

Event	Value
eventf	{"temp":93,"hum":95}

eventf {"temp":93,"hum":95} a few seconds ago

Code to display the random temperature and humidity:

The screenshot displays the IBM Watson IoT Platform interface. On the left, a sidebar contains navigation icons. The main panel shows the 'Recent Events' tab for a device named 'BME280_Sensor'. A table lists two events, both of type 'eventf', with JSON payloads: `{"temp":93,"hum":95}` and `{"temp":112,"hum":97}`. An overlay window titled 'Device Type: ESP32_Controller' is open, showing the 'Events' configuration. It includes a 'Send' button, a 'Schedule' dropdown set to 'Every Minute', and a 'Payload' editor. The payload is a JSON object: `{ "temp" : random(90,120), "hum" : random(60,100) }`. A 'New event type' button and an 'Upload a CSV file' button are also visible.

The usage of device is displayed under the device option with usage overview:

The screenshot shows the 'Usage Overview' dashboard in the IBM Watson IoT Platform. The dashboard features several cards: a 'Device types' card with a donut chart showing 'Total 1 device'; a 'Data transferred' card showing '0.5 MB Data transferred today', '0.8 MB This month', and '0.0 MB Previous month'; and another 'Data transferred' card showing '0.5 MB Data transferred today' with a line chart. A status bar at the bottom indicates '1 Simulation running'. The top right corner shows the user's email 'subikahnav.19ece@kongu.edu' and ID 'flipprr'.

The simulation results will be displayed under the recent events:

IBM Watson IoT Platform

subikahnav.19ece@kongu.edu
ID: flipprr

Browse Action Device Types Interfaces

Add Device +

BME280_Sensor Disconnected ESP32_Controller Device Nov 15, 2022 12:08 PM

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
eventf	{"temp":112,"hum":99}	json	a few seconds ago
eventf	{"temp":112,"hum":94}	json	a few seconds ago
eventf	{"temp":90,"hum":82}	json	a few seconds ago
eventf	{"temp":114,"hum":92}	json	a few seconds ago
eventf	{"temp":94,"hum":60}	json	a few seconds ago

1 Simulation running