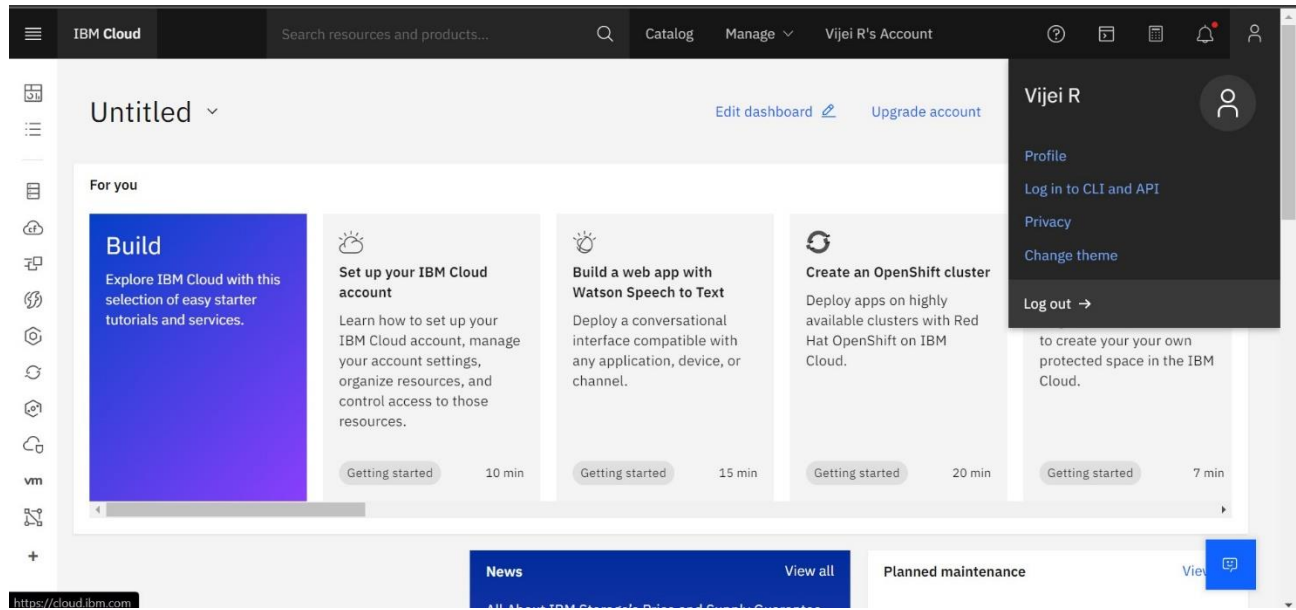


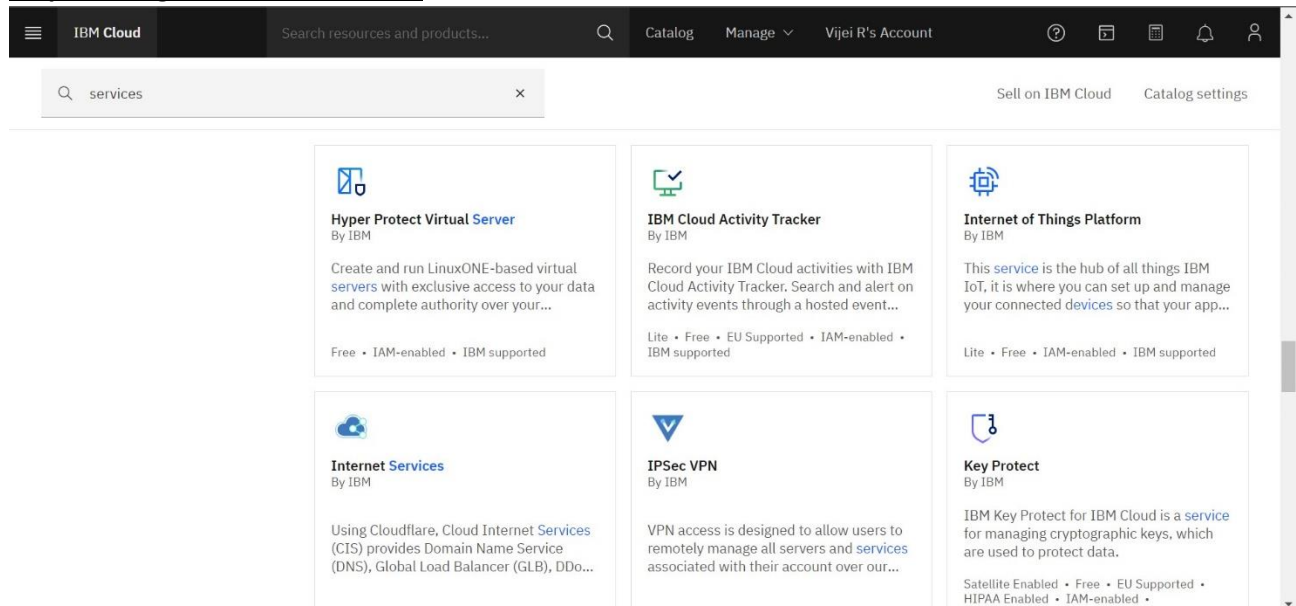
# Create IBM Watson IOT Platform and Device

Team ID	PNT2022TMID44878
Project Name	Smart solutions for railways

## Step-1: Creating IBM Cloud



## Step-2: Using IBM CLOUD services



### Step-3: Configure the IBM CLOUD service and creating IOT platform.

The screenshot shows the IBM Cloud Catalog page for the 'Internet of Things Platform'. The page has a dark header with the IBM Cloud logo, a search bar, and navigation links. The main content area is divided into a left sidebar with filters (Type, Service, Provider, Last updated, Category, Compliance, Location) and a main panel. The main panel has tabs for 'Create' and 'About'. Under 'Create', there are sections for 'Select a location' (London (eu-gb)) and 'Select a pricing plan'. A table lists the available plans:

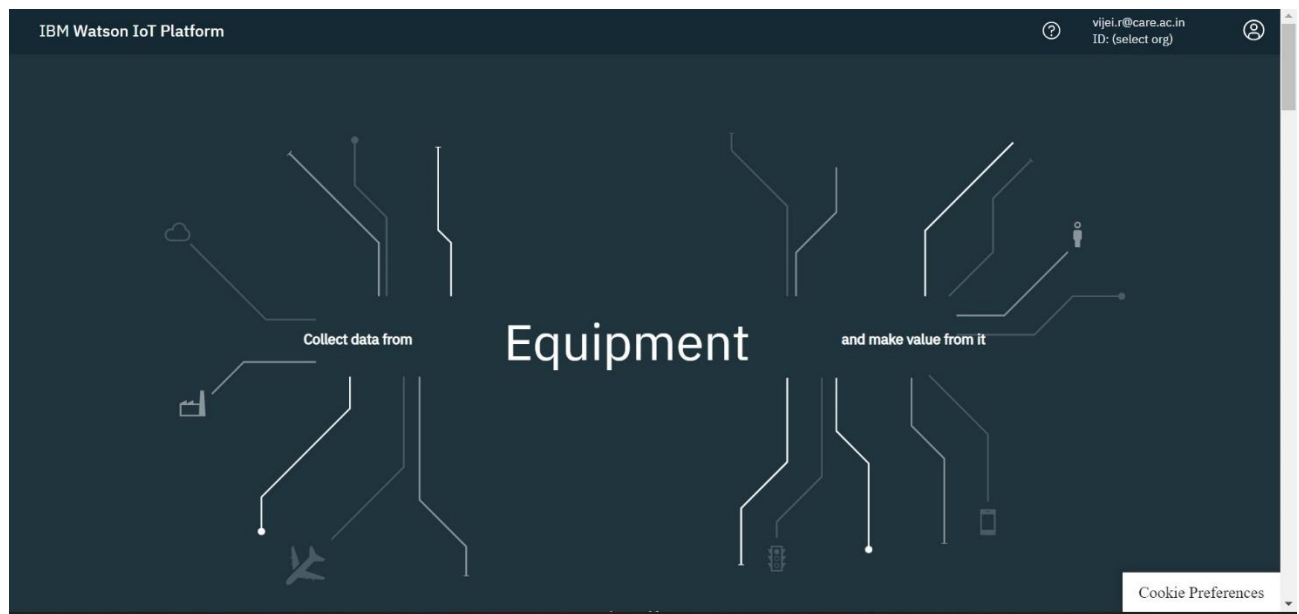
Plan	Features	Pricing
Lite	Includes up to 500 registered devices, and a maximum of 200 MB of each data metric	Free

On the right, a 'Summary' panel shows details for the 'Internet of Things Platform' (Free plan, London location). A warning message states: 'Existing Lite plan instance. You can have only 1 Lite plan instance of this service per resource group. Delete your current Lite plan instance in Default resource group to create a new one, or view the existing instance.' At the bottom, there is a checkbox for 'I have read and agree to the following license agreements:' with links to 'Terms' and 'Privacy'.

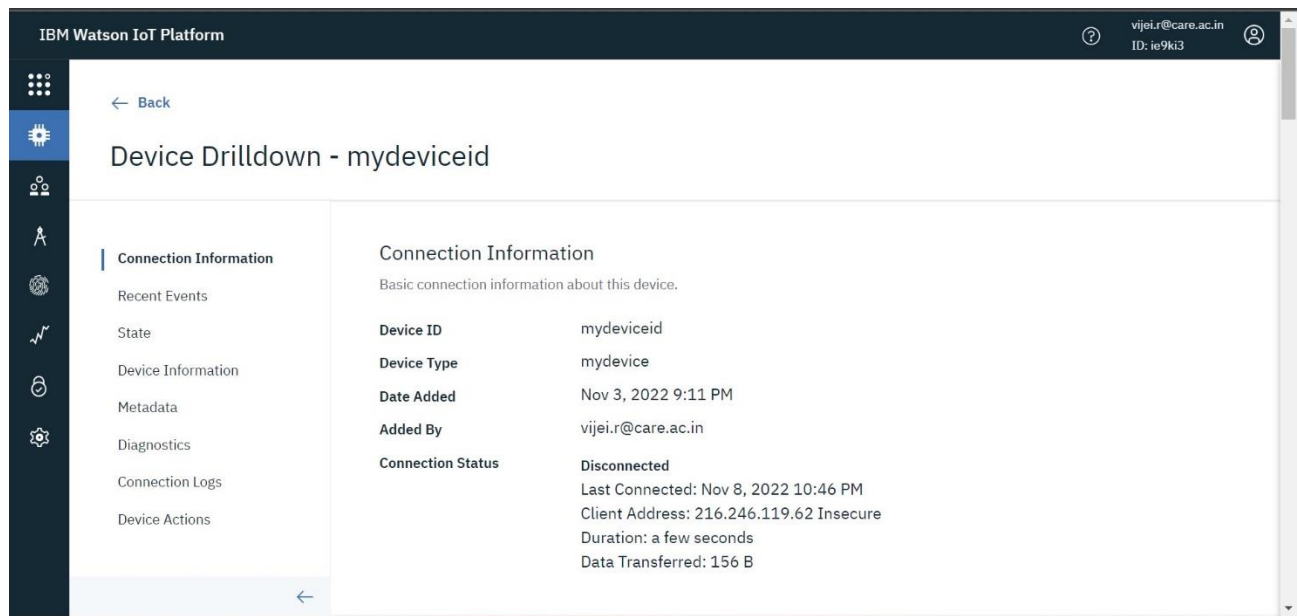
### Step4: IBM Watson IOT platform acts as the mediator to connect the web application to IOT devices, hence launching IBM Watson IOT platform.

The screenshot shows the 'Manage' page for the 'Internet of Things Platform-ed' instance. The page has a dark header with the IBM Cloud logo, a search bar, and navigation links. The main content area is divided into a left sidebar with tabs for 'Manage', 'Plan', and 'Connections'. The 'Manage' tab is active, showing a large graphic of a central device connected to various sensors and actuators. To the right of the graphic, the text reads: 'Let's get started with IBM Watson IoT Platform. Securely connect, control, and manage devices. Quickly build IoT applications that analyze data from the physical world.' Below this text are 'Launch' and 'Docs' buttons. At the bottom, a section titled 'Ready for the next level?' shows the 'IBM Watson IoT Platform Journey' progress bar, which is currently at the 'Lite' stage (indicated by a checkmark) and has a 'Non-Production' stage (indicated by a circle). A chat bubble icon is visible in the bottom right corner.

## Step 5: IBM Watson IoT platform is created



## Step 6: In order to connect the IOT device to the IBM cloud, create device in the IBM Watson IoT Platform and get the device credentials.



## Step-7: Connect the device and start simulating.

IBM Watson IoT Platform

Device Drilldown - mydeviceid

Recent Events

Event	Value
event_1	{\"available seats\": 108}
event_1	{\"available seats\": 41}
event_1	{\"available seats\": 25}
event_1	{\"available seats\": 61}
event_1	{\"available seats\": 97}

Event type name: event\_1

Schedule: 20 Every Minute

Payload: {\"available seats\": random(0, 108), \"longitude\": random(-180, 180), \"latitude\": random(-90, 90)}

## SIMULATION:

The simulation shows the available seats, longitude and latitude

IBM Watson IoT Platform

Device Drilldown - mydeviceid

Recent Events

Event	Value	Format	Last Received
event_1	{\"available seats\": 108, \"longitude\": -42, \"latitude\": ...}	json	a few seconds ago
event_1	{\"available seats\": 41, \"longitude\": -28, \"latitude\": ...}	json	a few seconds ago
event_1	{\"available seats\": 25, \"longitude\": -56, \"latitude\": ...}	json	a few seconds ago
event_1	{\"available seats\": 61, \"longitude\": 77, \"latitude\": ...}	json	a few seconds ago
event_1	{\"available seats\": 97, \"longitude\": -151, \"latitude\": ...}	json	a few seconds ago

1 Simulation running

