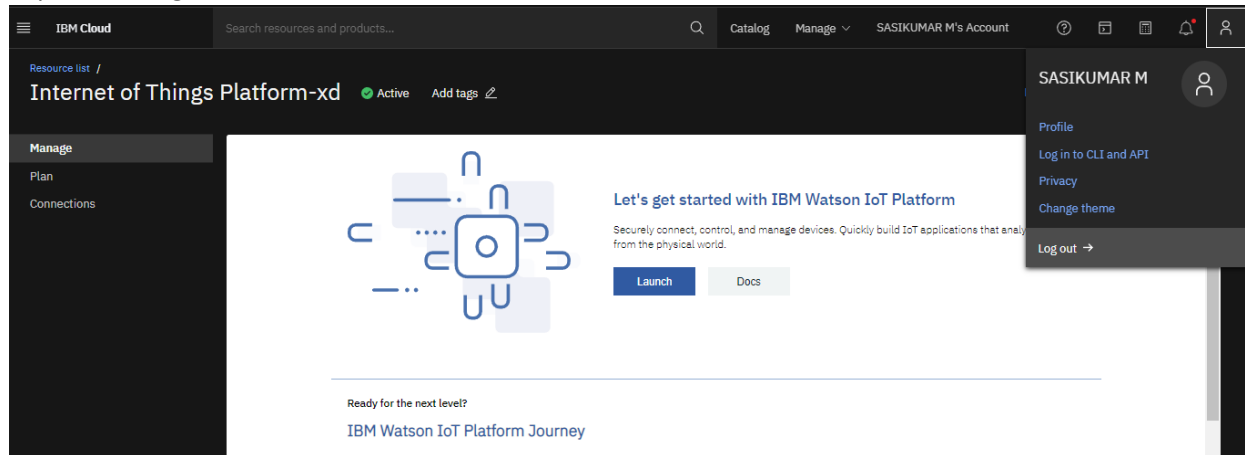


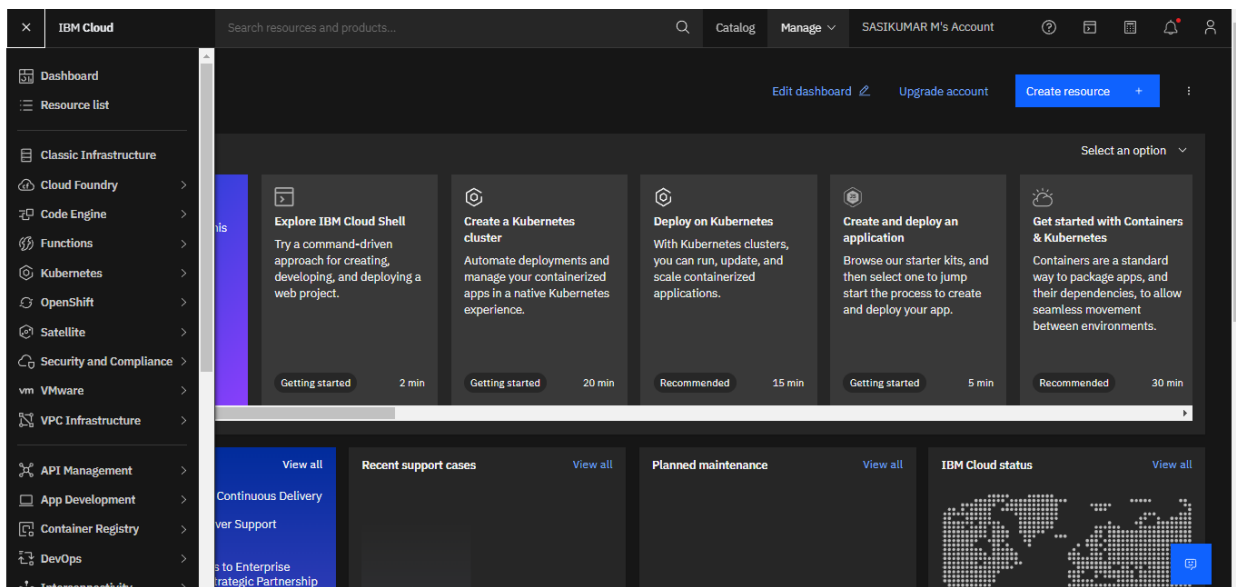
# SPRINT-1

Date	November 2022
Team ID	PNT2022TMID38325
Project Name	Smart solutions for railways
Maximum Marks	20 marks

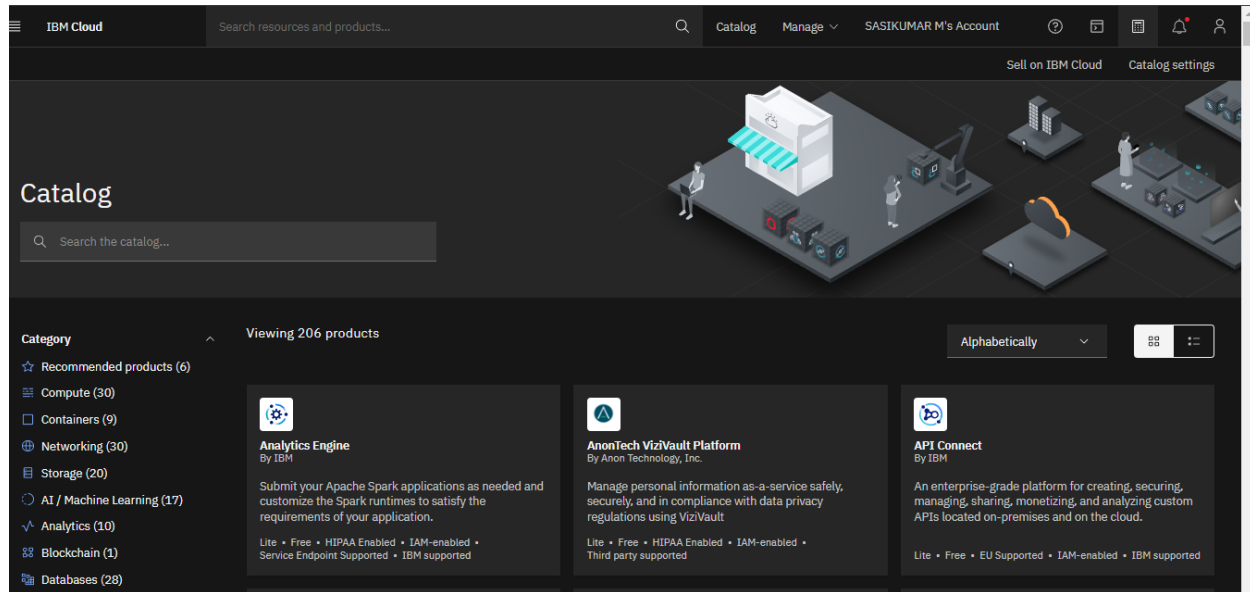
## Step-1:Creating IBM Cloud



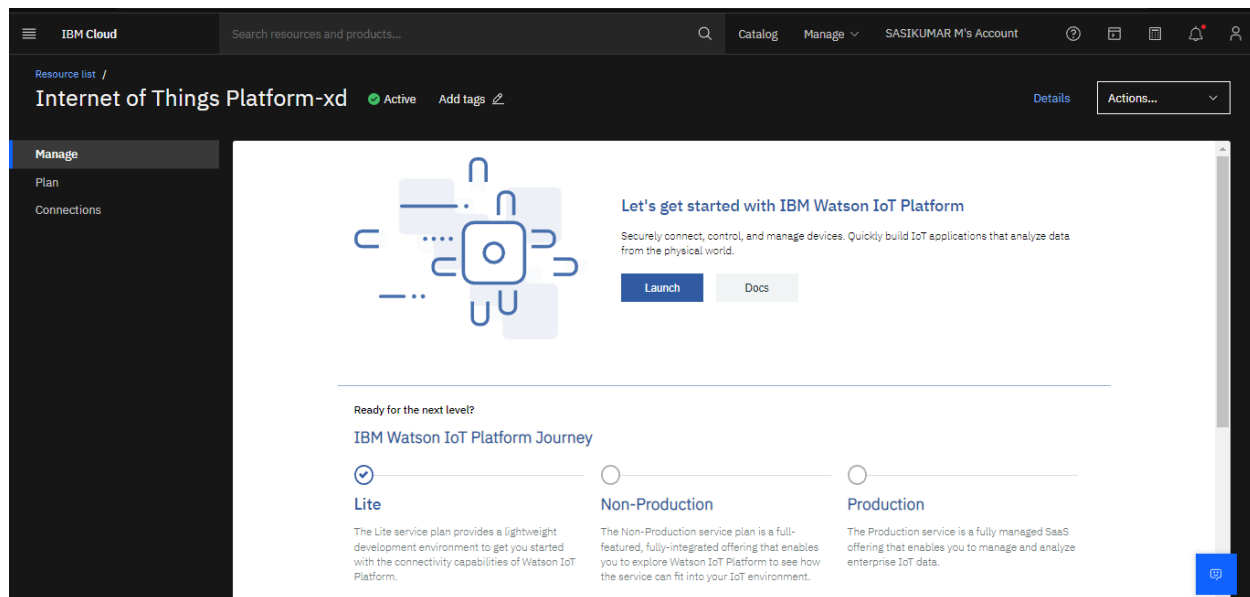
## Step-2:Using IBM CLOUD services



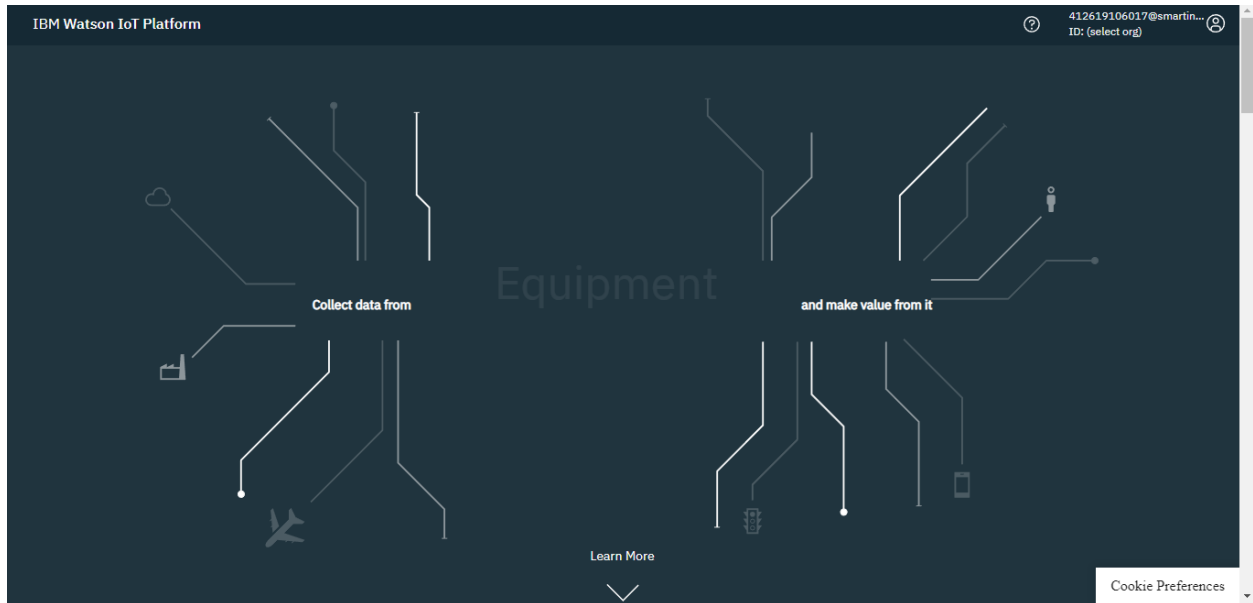
### Step-3: Configure the IBM CLOUD service and creating IOT platform



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



## 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.

Browse						Add Device +	
Action							
Device Types							
Interfaces							
>	<input type="checkbox"/>	12345	Disconnected	NodeMCU	Device	Oct 21, 2022 10:42 AM	
>	<input type="checkbox"/>	NodeMCU_1	Disconnected	NodeMCU	Device	Nov 15, 2022 11:03 PM	
>	<input type="checkbox"/>	Sasikumar_assignment_4	Disconnected	Sasikumar	Device	Nov 4, 2022 1:35 PM	
▼	<input checked="" type="checkbox"/>	weather_today	Disconnected	weather_device	Device	Nov 15, 2022 11:07 PM	→ ...
Identity		Device Information		Recent Events		State	Logs
Device ID		weather_today				State	Logs
Device Type		weather_device				State	Logs
Date Added		Nov 15, 2022 11:07 PM				State	Logs
Added By		412619106017@smartinternz.com				State	Logs
Connection Status		Disconnected				State	Logs

## Step-7:

Connect the device and start simulating.

The screenshot displays the IBM Watson IoT Platform interface. On the left, a sidebar contains navigation icons. The main panel is divided into two sections. The top section, titled 'Browse', shows a list of devices with columns for device ID, status, and name. The bottom section, titled 'Device Information', provides details for the selected device 'weather\_today'. The right panel, titled 'Device Type: GPS', shows the configuration for a new event type 'event\_1'. It includes a 'Schedule' section with a frequency of 'Every Minute' and a 'Payload' section with a JSON payload.

Device ID	Device Type	Date Added	Added By	Connection Status
12345	NodeMCU			Disconnected
NodeMCU_1	NodeMCU			Disconnected
Sasikumar_assignment_4	Sasikumar			Disconnected
weather_today	weather_device	Nov 15, 2022 11:07 PM	412619106017@smartinternz.com	Disconnected

Device ID: weather\_today  
Device Type: weather\_device  
Date Added: Nov 15, 2022 11:07 PM  
Added By: 412619106017@smartinternz.com  
Connection Status: Disconnected

Device Type: GPS

Events: 1

Event type name: event\_1

Schedule: 20 Every Minute

Payload: Specify the event payload in the editor window or by uploading a CSV file.

```
0 {  
1  "available seats": random(0, 100),  
2  "latitude": random(-90, 90),  
3  "longitude": random(-180, 180)  
4 }  
5
```

Upload a CSV file

## SIMULATION:

The simulation shows the latitude, longitude and seats availability of train.

[Browse](#) [Action](#) [Device Types](#) [Interfaces](#) [Add Device](#)

[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.

Device Simulator

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added	
>	<input type="checkbox"/> 12345	Disconnected	NodeMCU	Device	Oct 21, 2022 10:42 AM	→ ...
>	<input type="checkbox"/> NodeMCU_1	Disconnected	NodeMCU	Device	Nov 15, 2022 11:03 PM	
>	<input type="checkbox"/> Sasikumar_assignment_4	Disconnected	Sasikumar	Device	Nov 4, 2022 1:35 PM	
>	<input type="checkbox"/> weather_today	Disconnected	weather_device	Device	Nov 15, 2022 11:07 PM	

Items per page 50 | 1-4 of 4 items 1 of 1 page

IBM Watson IoT Platform aravindar3011@gmail.com ID: ojhrlr

[Browse](#) [Action](#) [Device Types](#) [Add Device](#)

[Identity](#) [Events](#)

The recent events

Event
status
status
status
status
status

### Event Payload

Event Name status

Time Received Nov 10, 2022 12:13 PM

```
1 = {  
2   {  
3     "name": "Train1",  
4     "lat": 17.6387448,  
5     "lon": 78.4754336  
6   }  
7 }
```