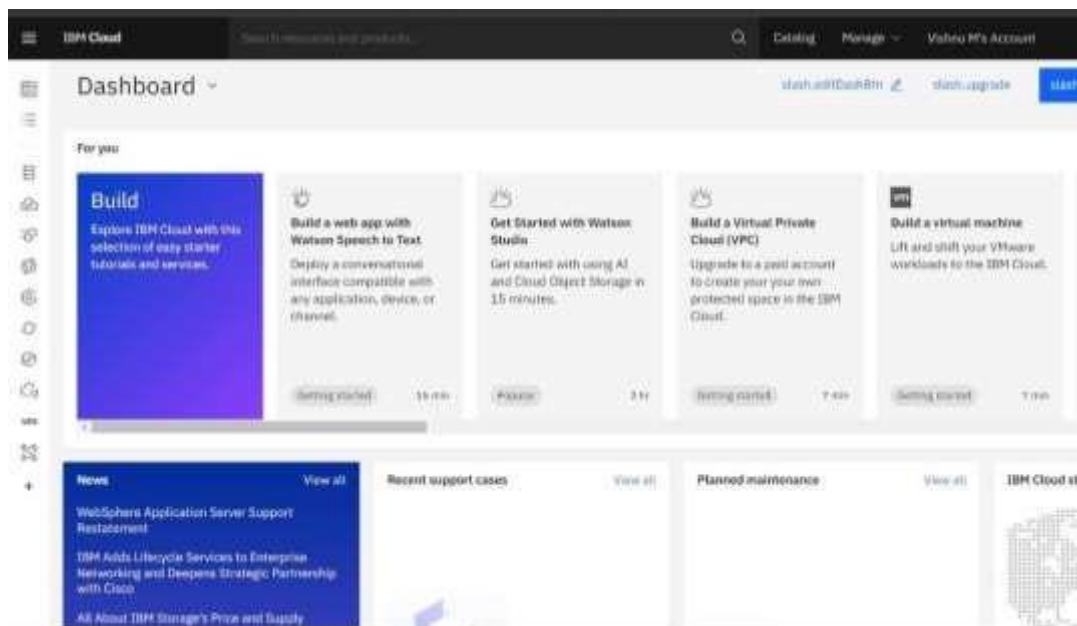











# SPRINT-1

Date	18 November 2022
Team ID	PNT2022TMID06068
Project Name	Smart solutions for railways


## Step-1: Creating IBM Cloud:



## Step-2: Using IBM CLOUD services

 <b>IBM Cloud Monitoring</b> By IBM Offers visibility into the performance and health of your infrastructure and apps, with in-depth troubleshooting and alerting. Lite • Free • EU Supported • IAM-enabled • IBM supported	 <b>IBM Cognos Dashboard Embedded</b> By IBM Build and deliver visually stunning dashboards that accelerate your journey to a data driven business. Lite • Free • IAM-enabled • IBM supported	 <b>IBM Log Analysis</b> By IBM IBM Log Analysis provides log collection and log search for IBM Cloud. Define alerts and design custom views to monitor application and system logs. Lite • Free • EU Supported • IAM-enabled • IBM supported
 <b>IBM Match 360 with Watson</b> By IBM IBM Match 360 with Watson (Match 360) improves trust in AI pipelines by identifying duplicate records and providing reliable data about your customers, supplier... Lite • Free • IAM-enabled • IBM supported	 <b>Informix</b> By IBM IBM Informix on Cloud helps businesses gain a trusted view of data in a hybrid computing environment. IBM supported	 <b>Internet of Things Platform</b> By IBM This service is the hub of all things IBM IoT, it is where you can set up and manage your connected devices so that your apps can access their live and historical data. Lite • Free • IAM-enabled • IBM supported
 <b>Internet Services</b> By IBM	 <b>IPSec VPN</b> By IBM	 <b>Key Protect</b> By IBM

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

[Catalog](#) /

## Internet of Things Platform

This service is the hub of all things IBM IoT, it is where you can set up and manage your connected devices so that your apps can access their live and historical data.

[Create](#)[About](#)

Type  
Service

Provider  
IBM

Last updated  
08/15/2022

Category  
Internet of Things

Compliance  
IAM-enabled

Location  
Frankfurt  
London  
Dallas  
Washington DC

Related links  
[Docs](#)  
[Terms](#)

Select a location

London (eu-gb)

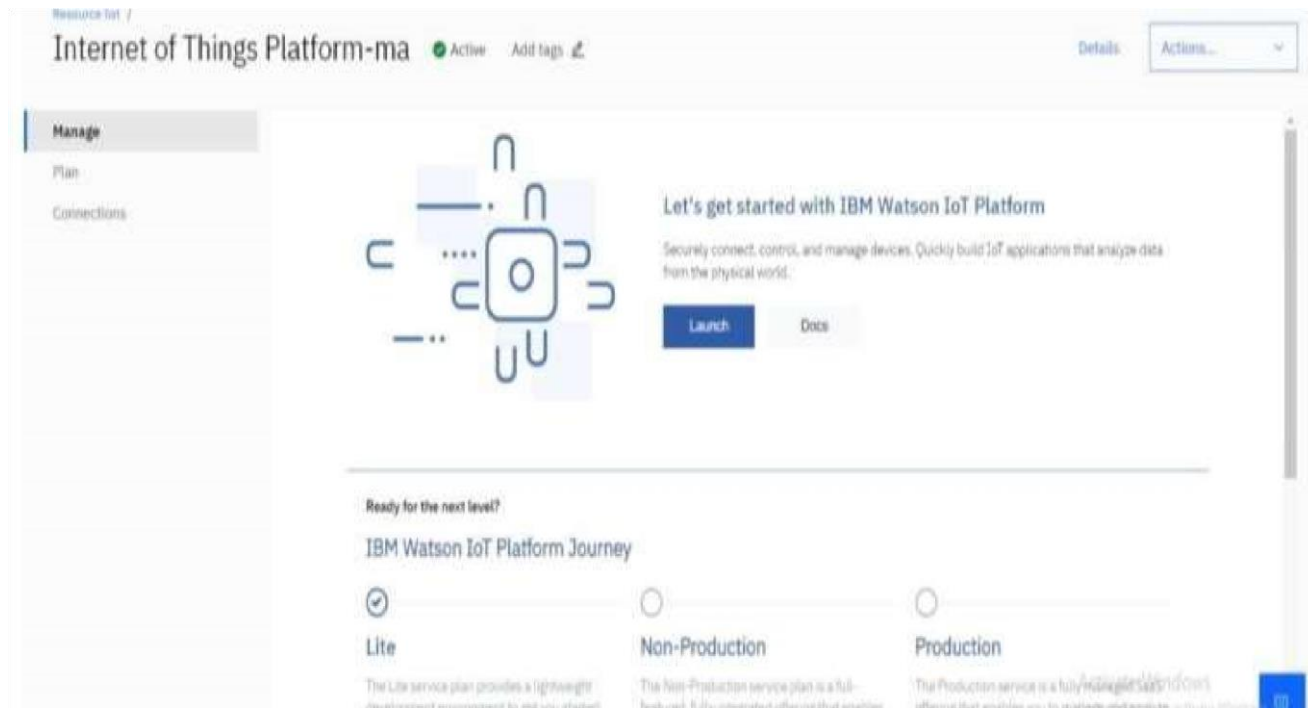
Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

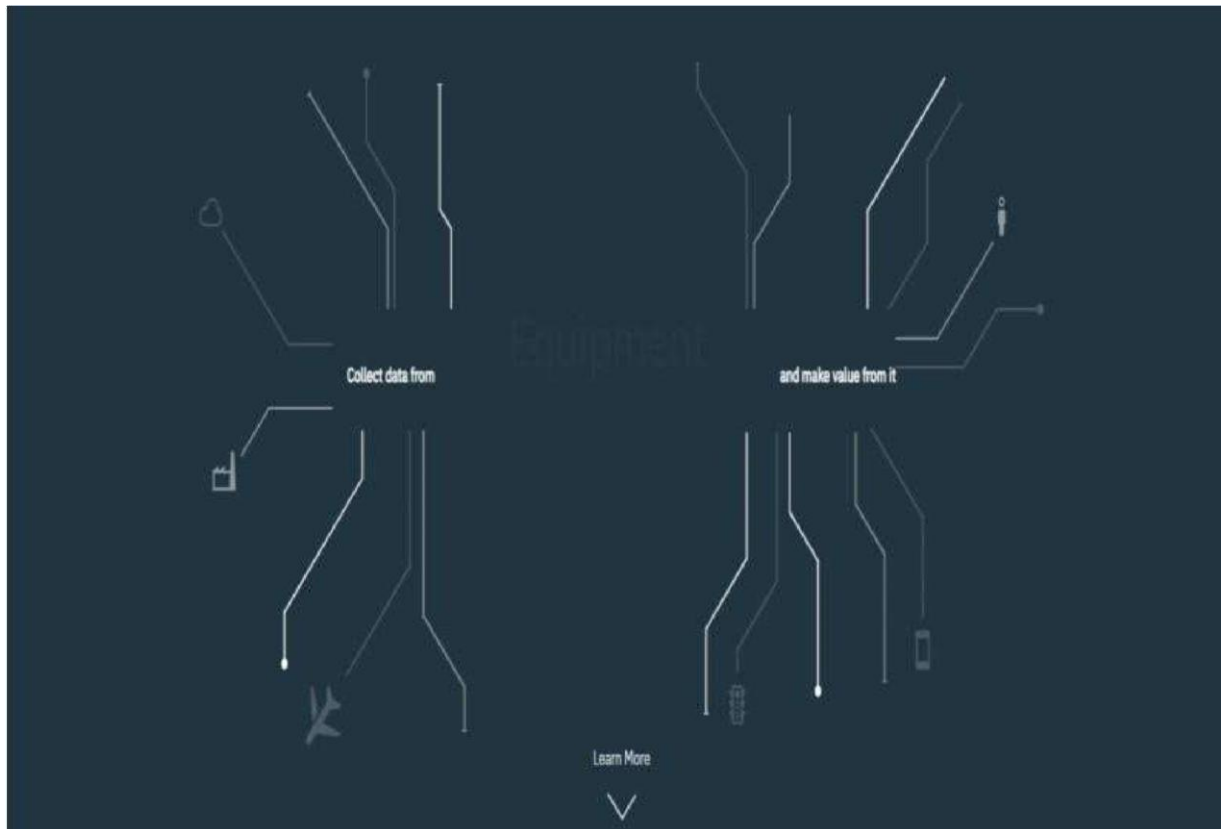
Plan	Features	Pricing
Lite	<b>Includes up to 500 registered devices, and a maximum of 200 MB of each data metric</b> Maximum of 500 registered devices Maximum of 500 application bindings Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed	Free

The Lite service plan for Internet of Things Platform includes up to 500 registered devices, and a maximum of 200 MB each of data exchanged, data analyzed, and edge data analyzed per month.

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



## Step 5: IBM Watson IOT platform



**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.**

[← Back](#)

Device Drilldown - MKS316

Connection Information

Recent Events

State

Device Information

Provision

Diagnostics

Connectivity Logs

Device Address

Connection Information

Recent Events

Device ID

Device Type

State Address

Added By

Connection Status

MKS316

512 On Device Manager

New: 5/20/22 12:02 PM

myid@domain.com@ibmcloud.ibm.com

Disconnected

Recent Events

The recent events listed show the last amount of time that is working and going from this device

Event	State	Provision	Last Modified
event_1	C:\wsl\data\mnt\%CDrive%\>PC\loghub\>PC\chatbot\...	on	

Simulation running

## ‘Step-7: Connect the device and start simulation

The screenshot displays the 'Device Drilldown - MKSJ16' interface. On the left, a sidebar contains navigation icons and labels: 'Back', 'Device Drilldown - MKSJ16', 'Connection Information', 'Recent Events', 'State', 'Device Information', 'Metadata', 'Diagnostics', 'Connection Logs', and 'Device Actions'. The main content area is divided into two sections: 'Recent Events' and 'State'.

**Recent Events**

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

Event	Value	Pa
event_1	{ "available seats": 60, "longitude": -14, "latitude": ... }	jc
event_1	{ "available seats": 6, "longitude": -178, "latitude": ... }	jc
event_1	{ "available seats": 45, "longitude": -14, "latitude": ... }	jc
event_1	{ "available seats": 47, "longitude": -111, "latitude": ... }	jc
event_1	{ "available seats": 17, "longitude": 21, "latitude": ... }	jc

**State**

This table shows a list of data points that are reported by this device.

**Modal Window: Device Type: h11m3edevicetype**

Events: 1 [New event type](#)

Event type name: event\_1 [Send](#)

**Schedule**

20 Every Minute

**Payload**

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

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

[Upload a CSV file](#) [Cancel](#) [Save](#)

### SIMULATION:

The simulation shows the available seats, longitude and latitude.

# Device Drilldown - MKSJ16

- Connection Information
- Recent Events**
- State
- Device Information
- Metadata
- Diagnostics
- Connection Logs
- Device Actions

## Recent Events

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	{"available seats":6,"longitude":-37,"latitude":-...}	json	a few seconds ago
event_1	{"available seats":72,"longitude":123,"latitude"...}	json	a few seconds ago
event_1	{"available seats":66,"longitude":-60,"latitude"...}	json	a few seconds ago
event_1	{"available seats":15,"longitude":-138,"latitude"...}	json	a few seconds ago
event_1	{"available seats":105,"longitude":24,"latitude"...}	json	a few seconds ago

## State

This table shows a list of data points that are reported by this device.

1 Simulation running