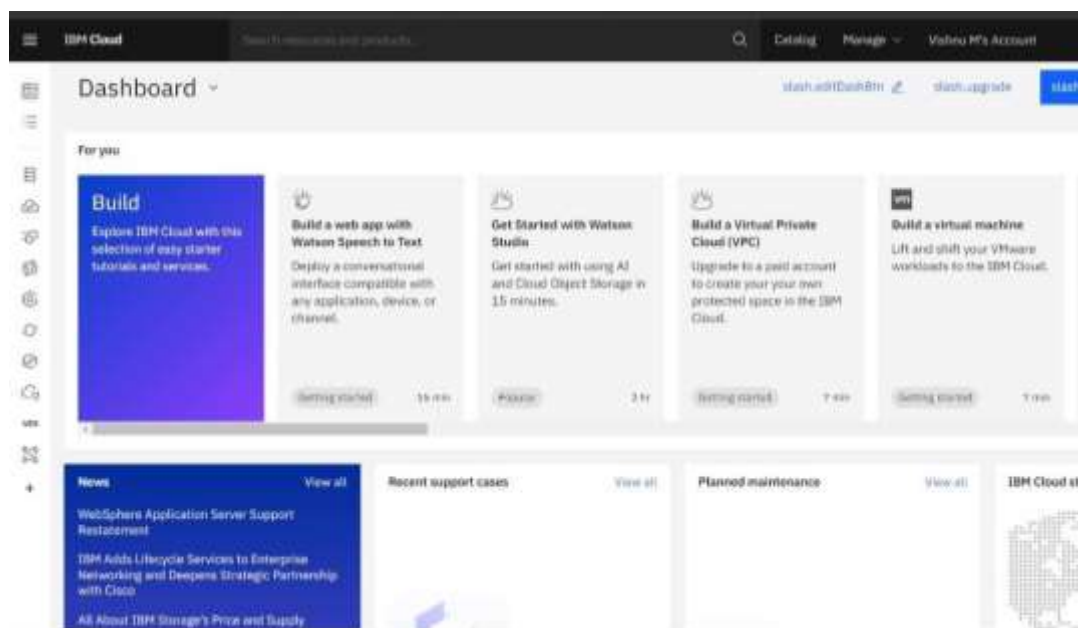











SPRINT-1

Date	14 November 2022
Team ID	PNT2022TMID06006
Project Name	Smart solutions for railways


Step-1: Creating IBM Cloud:



Step-2: Using IBM CLOUD services

 IBM Cloud Monitoring 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	 IBM Cognos Dashboard Embedded By IBM Build and deliver visually stunning dashboards that accelerate your journey to a data driven business. Lite • Free • IAM-enabled • IBM supported	 IBM Log Analysis 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
 IBM Match 360 with Watson 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	 Informix By IBM IBM Informix on Cloud helps businesses gain a trusted view of data in a hybrid computing environment. IBM supported	 Internet of Things Platform 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
 Internet Services By IBM	 IPSec VPN By IBM	 Key Protect By IBM

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



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	<p>Includes up to 500 registered devices, and a maximum of 200 MB of each data metric</p> <p>Maximum of 500 registered devices</p> <p>Maximum of 500 application bindings</p> <p>Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed</p>	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.

Resource Tot /

Internet of Things Platform-ma


Active Add tags

Details Actions

Manage

Plan

Connections



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.

Launch Docs

Ready for the next level?

IBM Watson IoT Platform Journey

✓

Lite

The Lite service plan provides a lightweight development environment for getting started.

○

Non-Production

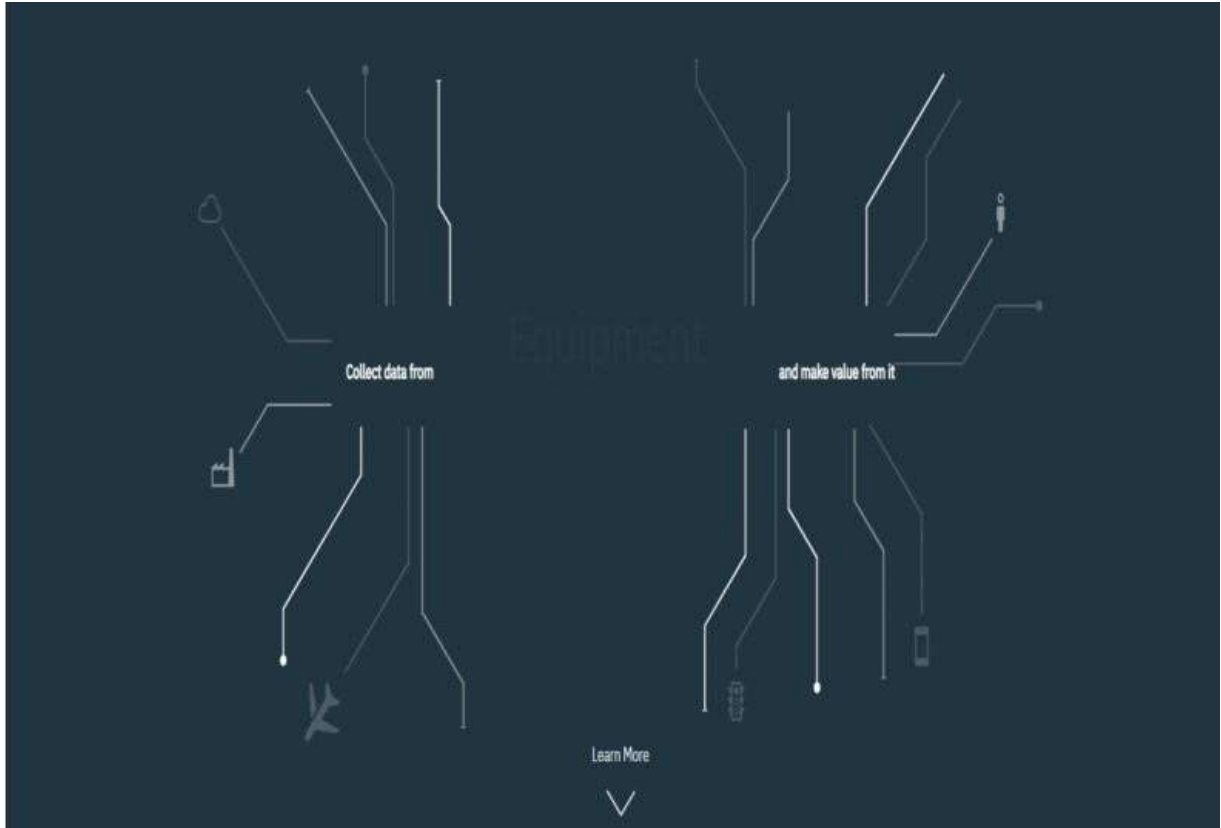
The Non-Production service plan is a full-featured, full-featured offering that enables

○

Production

The Production service is a fully managed, fully managed offering that enables you to manage and scale your IoT applications.

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

Connective Logs

Device History

Connection Information

Recent Events

Device ID

Device Type

Date Added

Added By

Connection Status

MKS316

IoT On Device Logger

Nov 15, 2022 12:42 PM

cloud.ibm.com>ibmiotdev>admin@ibm

Disconnected

Recent Events

The recent events listed show the last stream of data that is coming back from this device.

Event	Value	Format	Last Received
event_1	["available-event","No/longitude","No/latitude"]...	JSON	1 Simulation running

‘Step-7: Connect the device and start simulation

← Back

Device Drilldown - MKSJ16

Connection Information

Recent Events

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

Event	Value	From
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.

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](#).

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

[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":4,"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