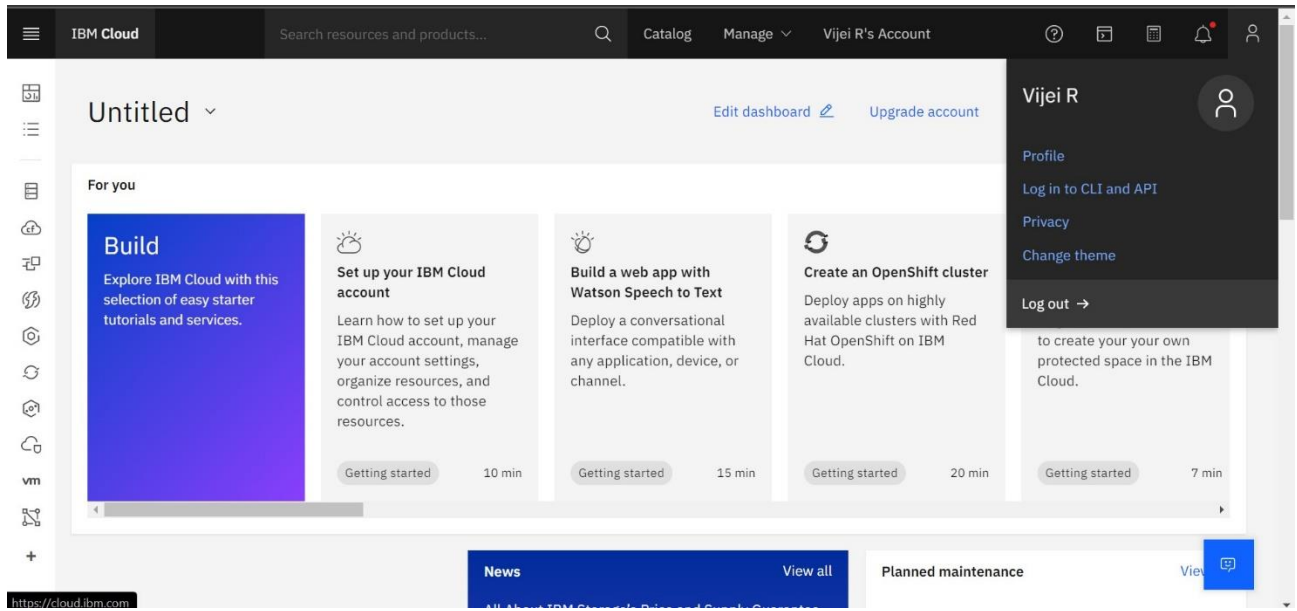


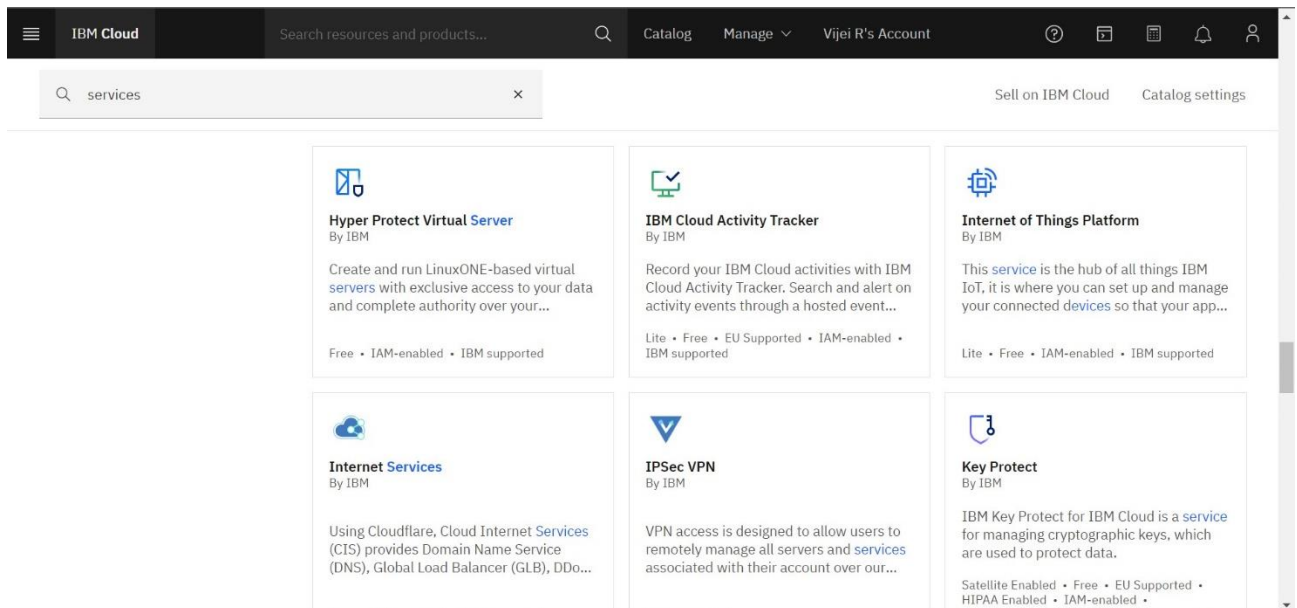
SPRINT-1

Date	29 October 2022
Team ID	PNT2022TMID44878
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.

The screenshot shows the IBM Cloud Catalog page for the 'Internet of Things Platform'. The page is divided into a main content area and a right-hand summary sidebar.

Main Content Area:

- Header:** 'Catalog / Internet of Things Platform'. A description states: '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.'
- Buttons:** 'Create' (active) and 'About'.
- Form:** 'Select a location' dropdown menu with 'London (eu-gb)' selected.
- Form:** 'Select a pricing plan'. A note says: 'Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)'.
- Table:** A table with columns 'Plan', 'Features', and 'Pricing'.

Plan	Features	Pricing
Lite	Includes up to 500 registered devices, and a maximum of 200 MB of each data metric	Free
- Left Sidebar:** Metadata including 'Type: Service', 'Provider: IBM', 'Last updated: 08/15/2022', 'Category: Internet of Things', 'Compliance: IAM-enabled', and 'Location'.

Right Sidebar (Summary):

- Section:** 'Internet of Things Platform' with a 'Free' tag.
- Details:** Location: London, Plan: Lite, Service name: Internet of Things Platform-min, Resource group: Default.
- Warning Box:** 'Existing Lite plan instance'. Text: '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](#)'.
- Agreement:** A checkbox for 'I have read and agree to the following license agreements:' with a link to 'Terms'.

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 in the IBM Cloud console. The page is titled 'Internet of Things Platform-ed' with a green 'Active' status and an 'Add tags' link.

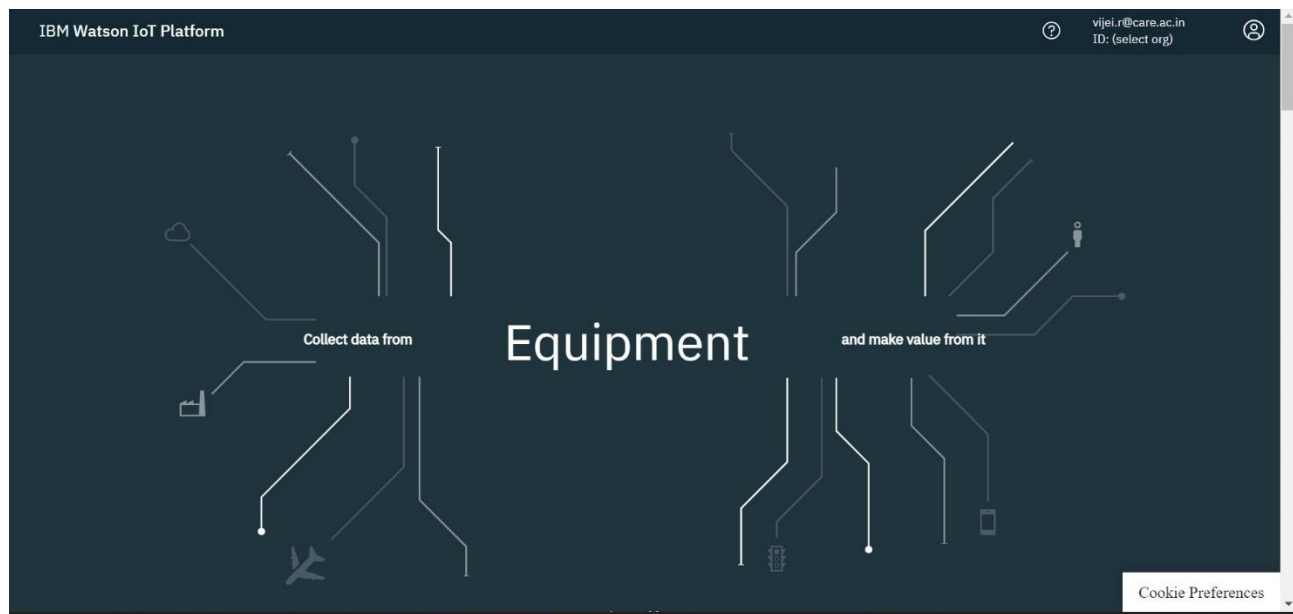
Left Sidebar: 'Manage' (active), 'Plan', 'Connections'.

Main Content Area:

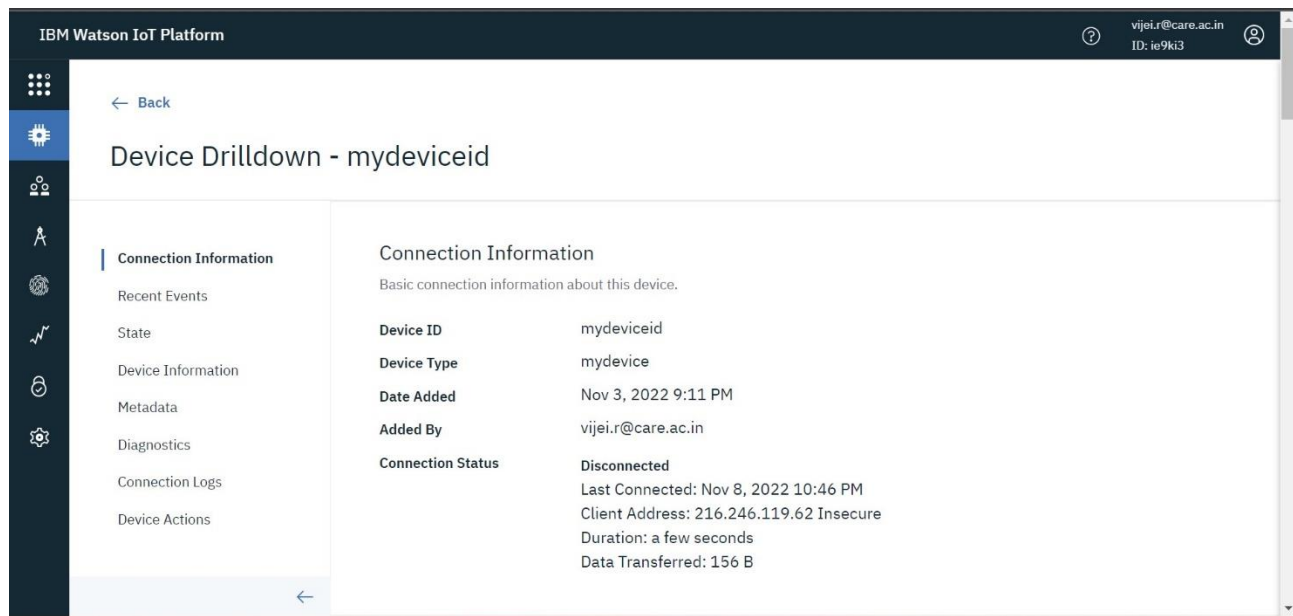
- Diagram:** A central icon representing a device connected to a network.
- Text:** 'Let's get started with IBM Watson IoT Platform'. Subtext: 'Securely connect, control, and manage devices. Quickly build IoT applications that analyze data from the physical world.'
- Buttons:** 'Launch' (blue) and 'Docs' (grey).
- Progress Section:** 'Ready for the next level? IBM Watson IoT Platform Journey'. A progress bar shows 'Lite' (checked) and 'Non-Production' (unchecked).

Bottom Left: A URL bar showing 'https://cloud.ibm.com'.

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

