

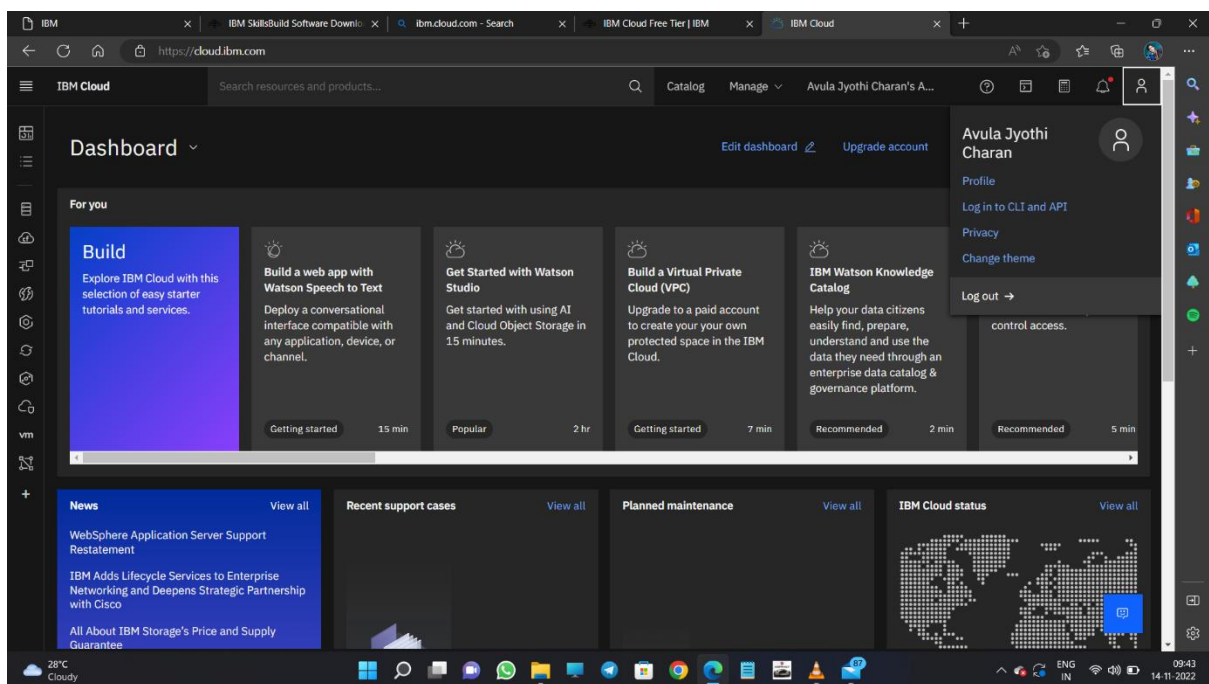
# Create IBM Watson IOT Platform And Device

Date:05 November 2022

Team ID: PNT2022TMID44818

Project Name:Smart solutions for railways

## Step-1:Creating IBM Cloud



## Step-2: Configure the IBM CLOUD service and creating IOT platform

The screenshot shows the IBM Cloud console interface for creating an Internet of Things (IoT) Platform. The browser address bar displays `https://cloud.ibm.com/catalog/services/internet-of-things-platform`. The page title is "Internet of Things Platform".

**Summary Panel:**

- Internet of Things Platform** (Free)
- Location: London
- Plan: Lite
- Service name: Internet of Things Platform-7p
- Resource group: Default

**Warning:** 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](#).

**License Agreement:** ☐ I have read and agree to the following license agreements: [Terms](#)

**Create** **Add to estimate**

**Main Content Area:**

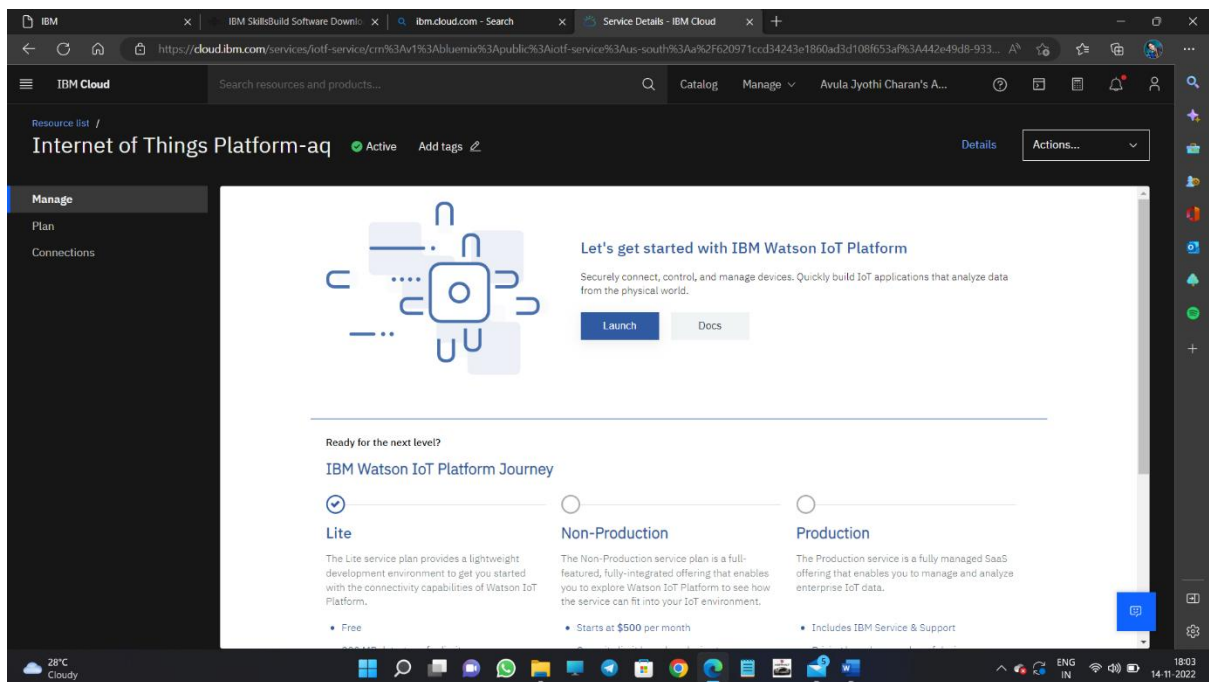
**Select a location:** London (eu-gb)

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

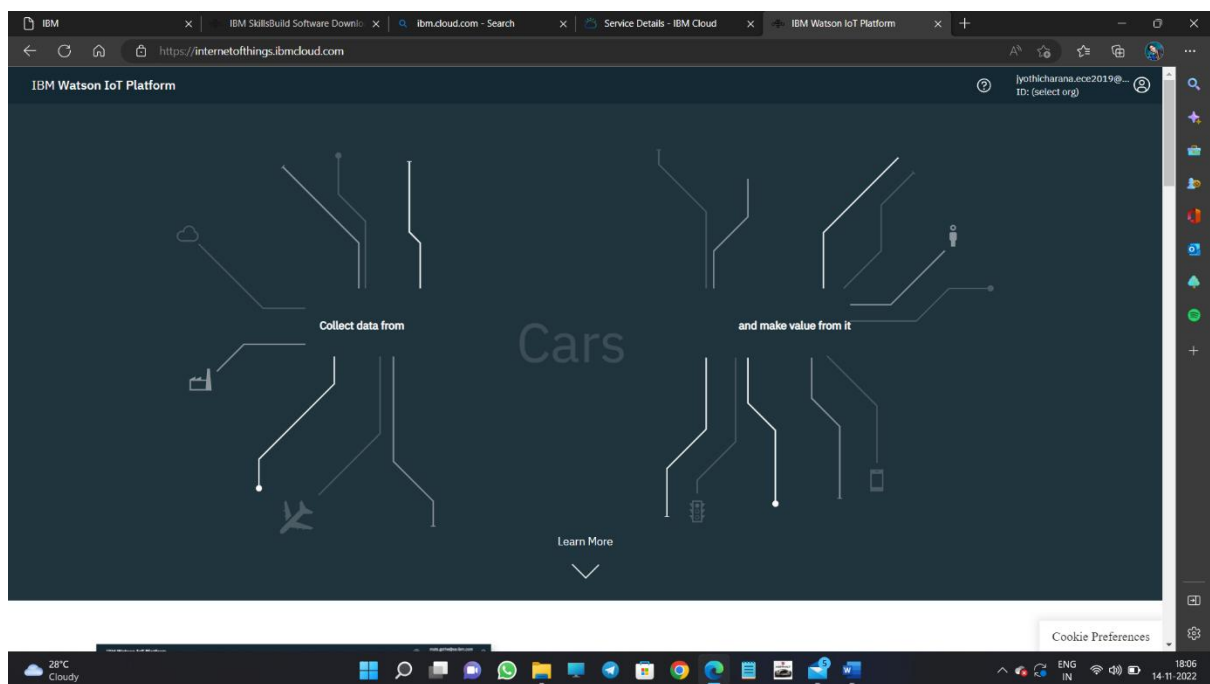
Plan	Features	Pricing
Lite	<ul style="list-style-type: none"><li>Includes up to 500 registered devices, and a maximum of 200 MB of each data metric</li><li>Maximum of 500 registered devices</li><li>Maximum of 500 application bindings</li><li>Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed</li></ul>	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.

Step-3: IBM Watson IoT platform acts as the mediator to connect the web applications to IOT devices/hence launching IBM Watson IoT platform



Step-4:IBM Watson IOT platform is created



Step-5: In order to connect the IOT device to the IBM cloud, create device in the IBM Watson IOT platform and get the device credentials

The screenshot displays the IBM Watson IoT Platform web interface. The browser's address bar shows the URL: <https://4ijwr.internetofthings.ibmcloud.com/dashboard/devices/drilldown/new09876?returnTo=/devices/browse>. The user is logged in as `jyothicharana.ece2019@dce.edu.in` with ID `4ijwr`.

The main heading is "Device Drilldown - 09876". A left-hand navigation menu includes options like "Recent Events", "State", "Device Information", "Metadata", "Diagnostics", "Connection Logs", and "Device Actions".

The "Connection Information" section provides details about the device:

Field	Value
Device ID	09876
Device Type	new
Date Added	Nov 14, 2022 6:08 PM
Added By	jyothicharana.ece2019@dce.edu.in
Connection Status	Disconnected

The "Recent Events" section indicates that the events listed show a live stream of data. Below this, a table header is visible with columns: "Event", "Value", "Format", and "Last Received".

At the bottom of the events section, it states "1 Simulation running".

The Windows taskbar at the bottom shows the system clock as 18:19 on 14/11/2022, with weather information (28°C Cloudy) and various application icons.

## Step-6: Connect the device and start simulating

The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar includes tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains various icons for navigation. The main content area shows a modal window with tabs for 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. The 'Recent Events' tab is active, displaying a table of events. Below the table, it indicates '1 of 1 page' and '1 Simulation running'.

Event	Value	Format	Last Received
event	{"available seats":33,"longitude":100,"latitude":-11}	json	a few seconds ago
event	{"available seats":95,"longitude":54,"latitude":-11}	json	a minute ago
event	{"available seats":46,"longitude":-161,"latitude":...	json	2 minutes ago
event	{"available seats":1,"longitude":57,"latitude":53}	json	3 minutes ago

Items per page 50 | 1-1 of 1 item

1 Simulation running

## SIMULATION:

The simulation shows the available seats , longitude and latitude

The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar includes tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains various icons for navigation. The main content area shows a modal window titled 'Recent Events' with a close button. Inside this modal, a message states: 'The recent events listed show the live stream of data that is coming and going from this device.' Below this message is a table with the following data:

Event	Value	Format	Last Received
event	{"available seats":33,"longitude":100,"latitude":-11}	json	a few seconds ago
event	{"available seats":95,"longitude":54,"latitude":-11}	json	a minute ago
event	{"available seats":46,"longitude":-161,"latitude":...	json	2 minutes ago
event	{"available seats":1,"longitude":57,"latitude":53}	json	3 minutes ago

At the bottom of the modal, there is a pagination control showing 'Items per page: 50' and '1-1 of 1 item'. Below the modal, a status bar indicates '1 Simulation running'. The bottom of the screen shows a Windows taskbar with various application icons and a system tray displaying '25°C Cloudy' and the time '14:11: 2022'.