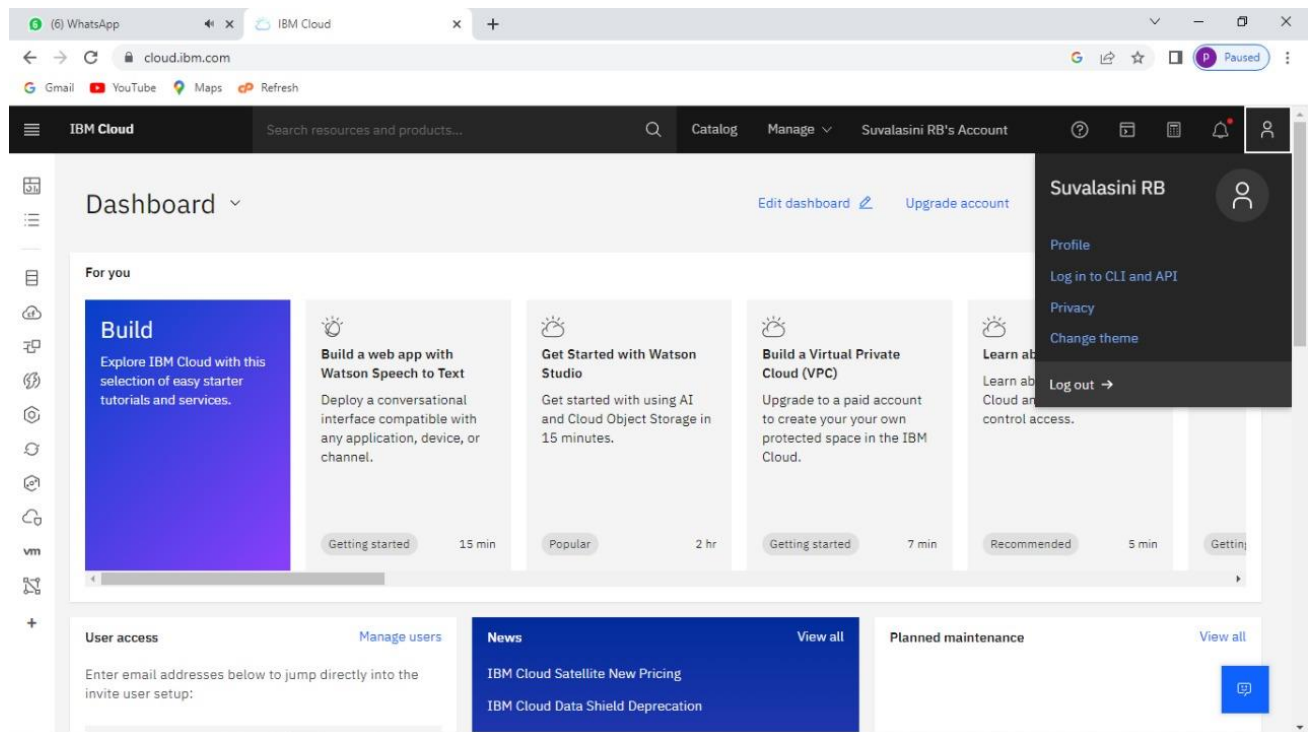


IBM WATSON PLATFORM IOT AND DEVICE

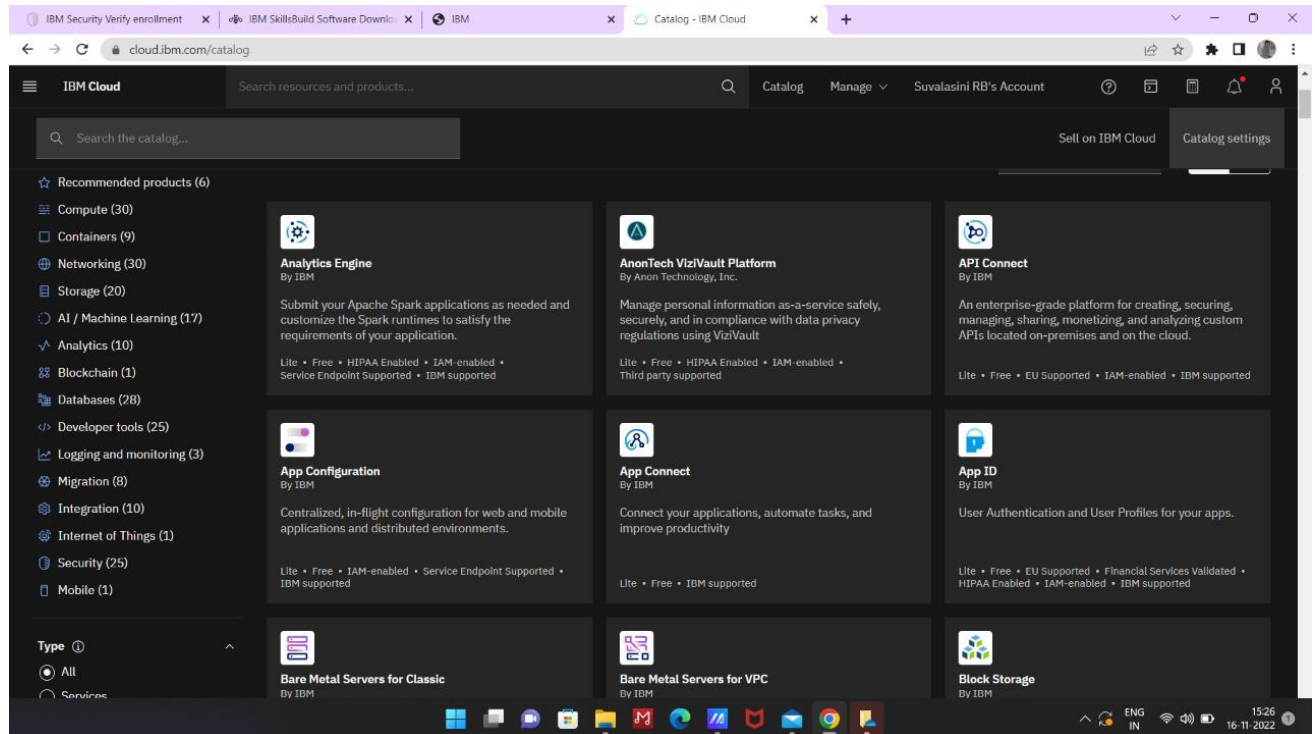
TEAM ID	PNT2022TMID42369
TEAM MEMBERS	Suvalasini. R.B(Team lead) Shanmuga priya.S(Team member 1) Hari priya. R(Team member 2) Elavarasi. R(Team member 3)
PROJECT NAME	IOT based safety gadget for child safety monitoring and notification

Suvalasini. R.B(Team lead)

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

Left Sidebar:

- 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

Main Content Area:

Create | About

Select a location: **Frankfurt (eu-de)**

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

Plan	Features	Pricing
Lite	Includes up to 500 registered devices, and a maximum of 200 MB of each data metric: 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.

Right Sidebar (Summary):

Internet of Things Platform **Free**

Location: Frankfurt
Plan: Lite
Service name: Internet of Things Platform-jg
Resource group: Default

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

Create

STEP 4 : IBM WATSON IOT PLATFORM ACTS AS THE MEDIATOR TO CONNECT THE WEB APPLICATION TO IOT DEVICES L, HENCE LAUNCHING IBM WATSON IOT PLATFORM.

The screenshot displays the IBM Cloud console interface. At the top, the browser address bar shows the URL: `cloud.ibm.com/services/iotf-service/cm%3Av1%3Abluemix%3Apublic%3Aiotf-service%3Aeu-de%3AAa%2F92ec0e365d614e9f8e2f491ad0d27e72%3Ad6809a5b-e42d-4468-ac48-c3a9f227c728...`. The console header includes the IBM Cloud logo, a search bar, and navigation links for Catalog, Manage, and Suvalasini RB's Account. The main content area is titled 'Internet of Things Platform-jg' and is marked as 'Active'. A sidebar on the left contains links for Manage, Plan, and Connections. The main content area features a large graphic of a central square with four lines extending from it, each ending in a small circle, representing a network or data flow. Below this graphic, the text 'Let's get started with IBM Watson IoT Platform' is displayed, followed by the description: 'Securely connect, control, and manage devices. Quickly build IoT applications that analyze data from the physical world.' Two buttons, 'Launch' and 'Docs', are provided. Below this, a section titled 'Ready for the next level?' introduces the 'IBM Watson IoT Platform Journey'. This section contains three columns: 'Lite', 'Non-Production', and 'Production'. The 'Lite' column is marked with a checkmark and describes a lightweight development environment. The 'Non-Production' column is marked with a circle and describes a full-featured, fully-integrated offering. The 'Production' column is marked with a circle and describes a fully managed SaaS offering. Each column includes a brief description and a list of features or pricing details.

IBM Cloud

Search resources and products...

Resource list / Internet of Things Platform-jg 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 to get you started with the connectivity capabilities of Watson IoT Platform.

- Free

☐ Non-Production

The Non-Production service plan is a full-featured, fully-integrated offering that enables you to explore Watson IoT Platform to see how the service can fit into your IoT environment.

- Starts at \$500 per month

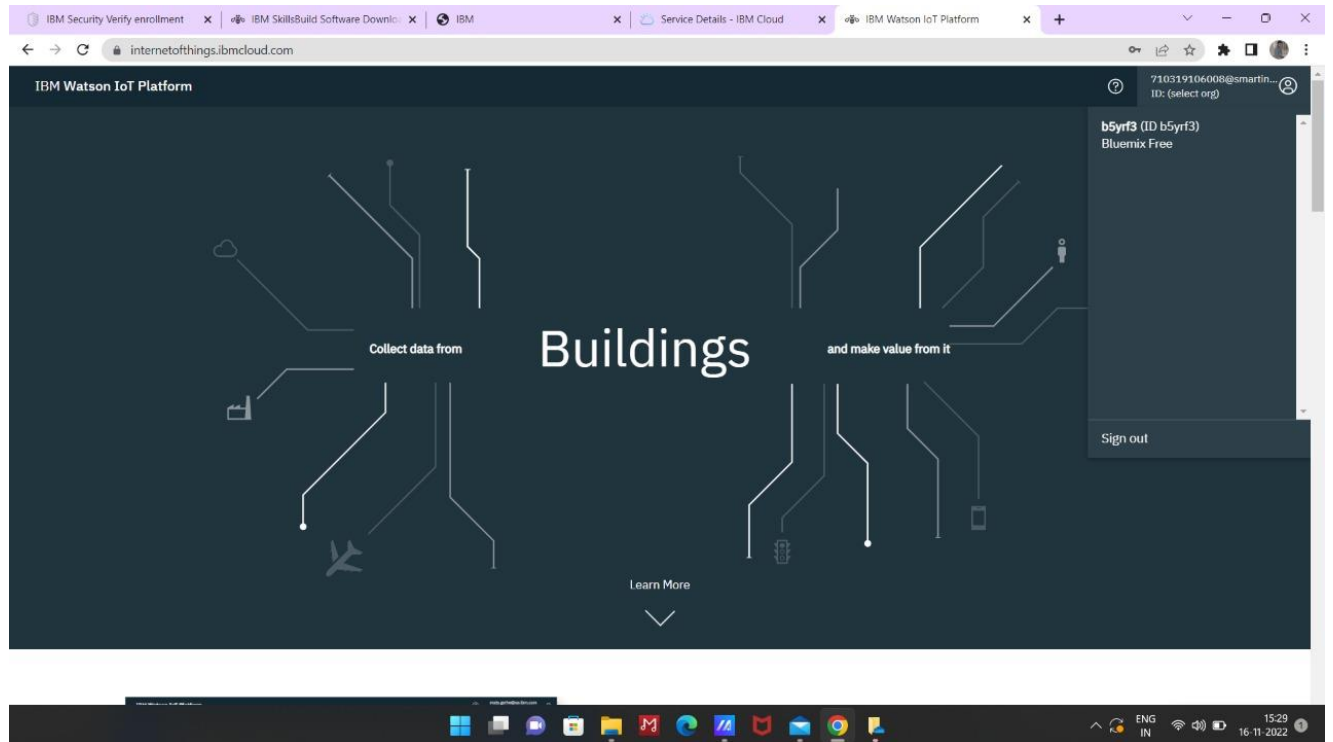
☐ Production

The Production service is a fully managed SaaS offering that enables you to manage and analyze enterprise IoT data.

- Includes IBM Service & Support

16-11-2022 15:27

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.

The screenshot displays the IBM Watson IoT Platform dashboard. The top navigation bar includes tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. A user profile is visible in the top right corner with the email '710319106008@smartinternz.com' and ID 'b5yrf3'. A blue 'Add Device' button is located in the top right. Below the navigation bar, a text block states: '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.' A search bar labeled 'Search by Device ID' is present. To the right of the search bar is a 'Device Simulator' toggle switch, which is currently turned on. The main table lists devices with columns: Device ID, Status, Device Type, Class ID, Date Added, and Descriptive Location. One device is listed: 'json' with status 'Disconnected', device type 'ultrasonicsensor', class ID 'Device', and date added 'Nov 16, 2022 3:55 PM'. A dropdown menu is open for the 'json' device, showing options: Identity, Device Information, Recent Events, State, and Logs. The 'Device Information' tab is selected, displaying details: Device ID (json), Device Type (ultrasonicsensor), Date Added (Nov 16, 2022 3:55 PM), Added By (710319106008@smartinternz.com), and Connection Status (Disconnected). At the bottom, it shows 'Items per page 50' and '1-1 of 1 item'. The Windows taskbar is visible at the very bottom of the screen.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
json	Disconnected	ultrasonicsensor	Device	Nov 16, 2022 3:55 PM	

Device Information

Device ID	json
Device Type	ultrasonicsensor
Date Added	Nov 16, 2022 3:55 PM
Added By	710319106008@smartinternz.com
Connection Status	Disconnected

STEP 7: CONNECT THE DEVICE AND START SIMULATING.

The screenshot displays the IBM Watson IoT Platform interface. The main page is titled 'Browse Devices' and includes a sidebar with navigation icons. The 'Browse' tab is active, showing a table of devices. A modal window is open for configuring a device event, titled 'Device Type: event_1'.

Device Type: event_1

Events 1 [New event type +](#)

Event type name: event_1 [Send](#) [Delete](#)

Schedule

1 Every Minute

Payload

Specify the event payload in the editor window or by uploading a [CSV file](#).

```
{
  1: {
    "randomNumber": random(0, 100)
  }
}
```

[Upload a CSV file](#) [What functions can I apply?](#) [Cancel](#) [Save](#)

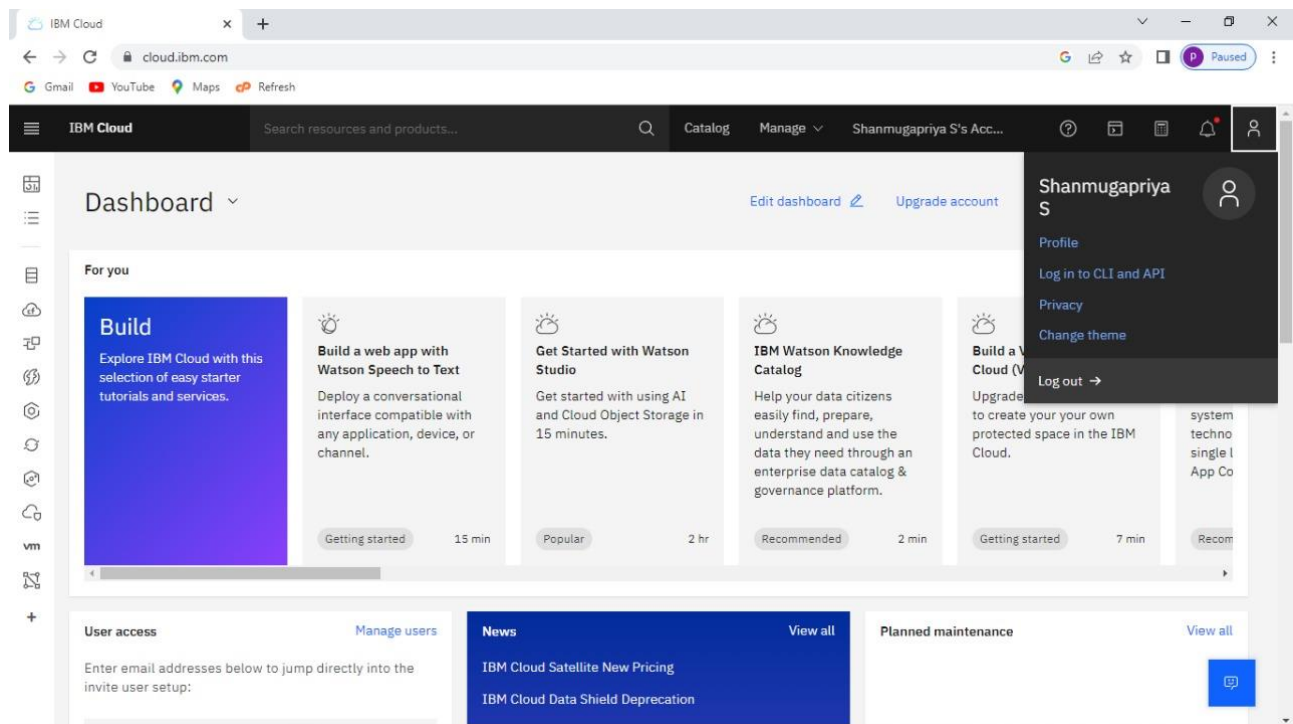
Table:

Device ID	Status	Device Type
json	Disconnected	ultrasonicsensor

Items per page 50 | 1-1 of 1 item

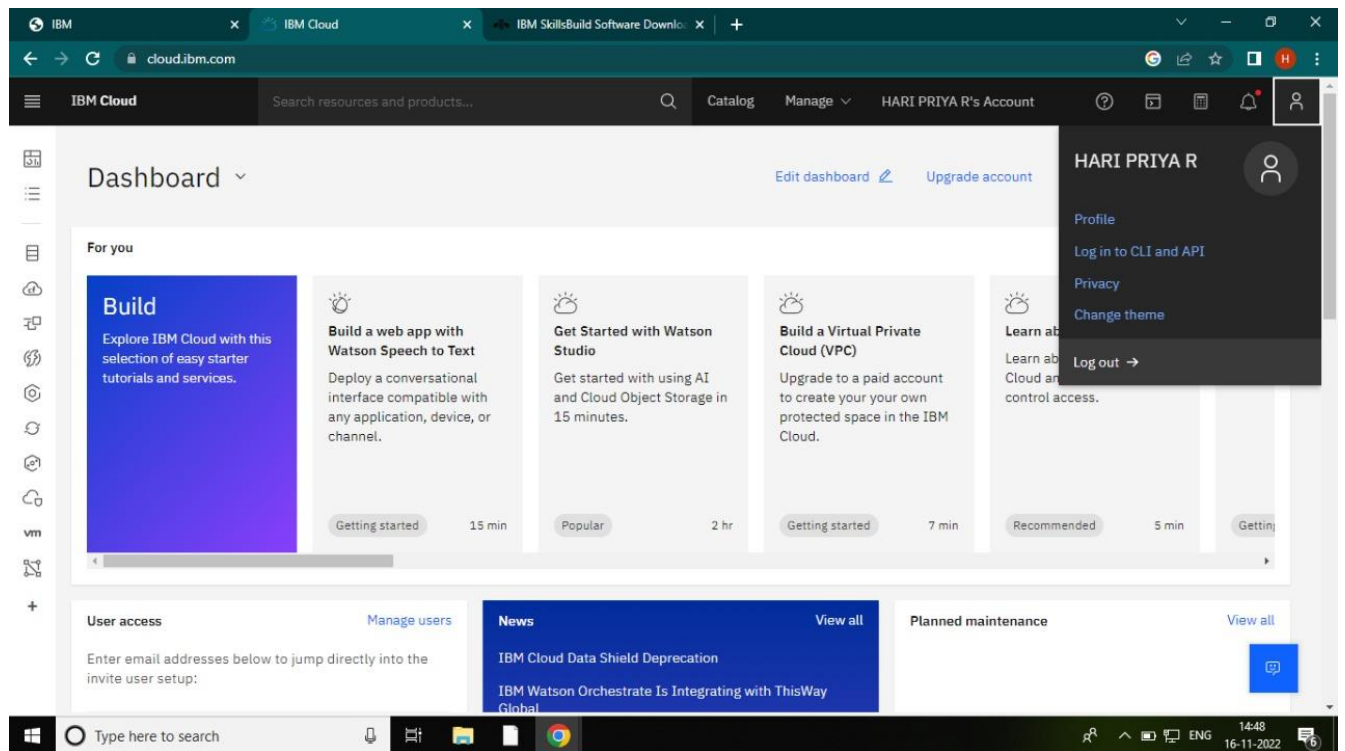
Shanmuga priya. S (Team member 1)

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Haripriya. R(Team member 2)

CREATING IBM Cloud:



Elavarasi. R(Team member 3)

CREATING IBM Cloud:

