

**CREATE AND CONFIGURE IBM CLOUD SERVICES**

**IBM WATSON**

TEAM ID	PNT2022TMID36134
PROJECT NAME	Smart Waste managementsystem for metropolitan cities

**IBM WATSON**

IBM Cloud

Search resources and products...

Catalog

Manage

IYAPPAN V's Account

Resource list

Create resource

Name	Group	Location	Product	Status	Tags
Filter by name or IP address... Filter by group or org... Filter... Filter... Filter... Filter...					
Storage (0)					
AI / Machine Learning (0)					
Analytics (0)					
Blockchain (0)					
Databases (2+)					
Developer tools (5+)					
Logging and monitoring (0)					
Migration (0)					
Integration (0+)					
Internet of Things (1)					
Internet of Things Platform-cn	Default	Frankfurt	Internet of Things Platform	Active	
Security (0)					
Mobile (0)					

IBM Cloud

Search resources and products...

Catalog

Manage

IYAPPAN V's Account

Resource list /

Internet of Things Platform-cn

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

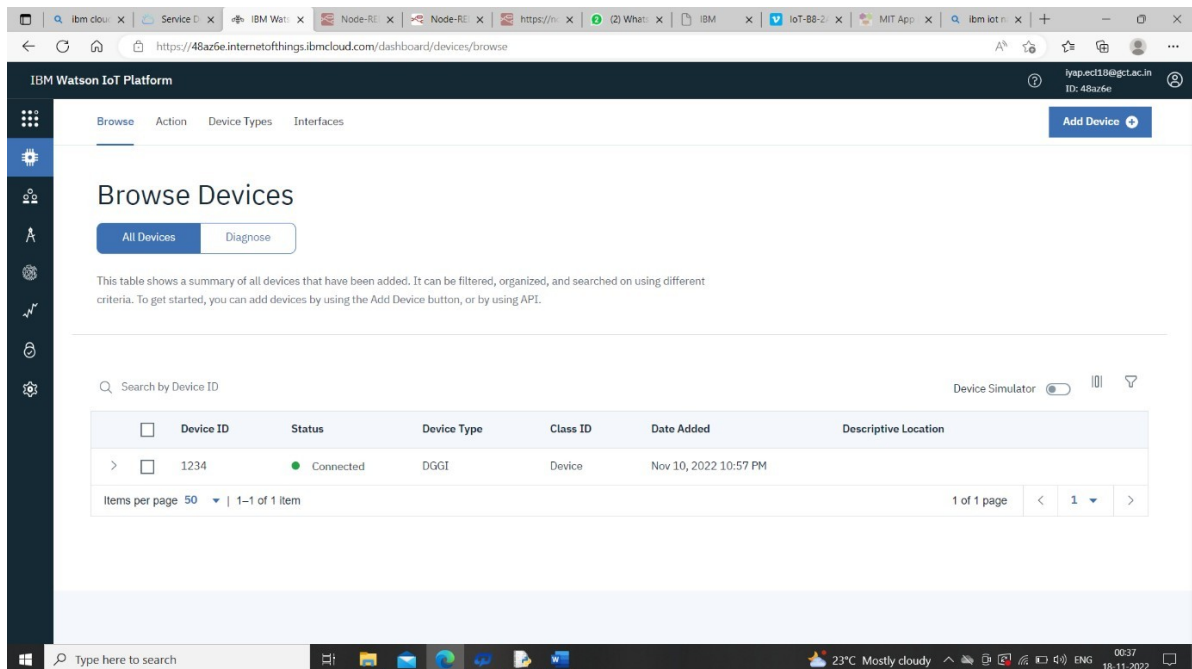
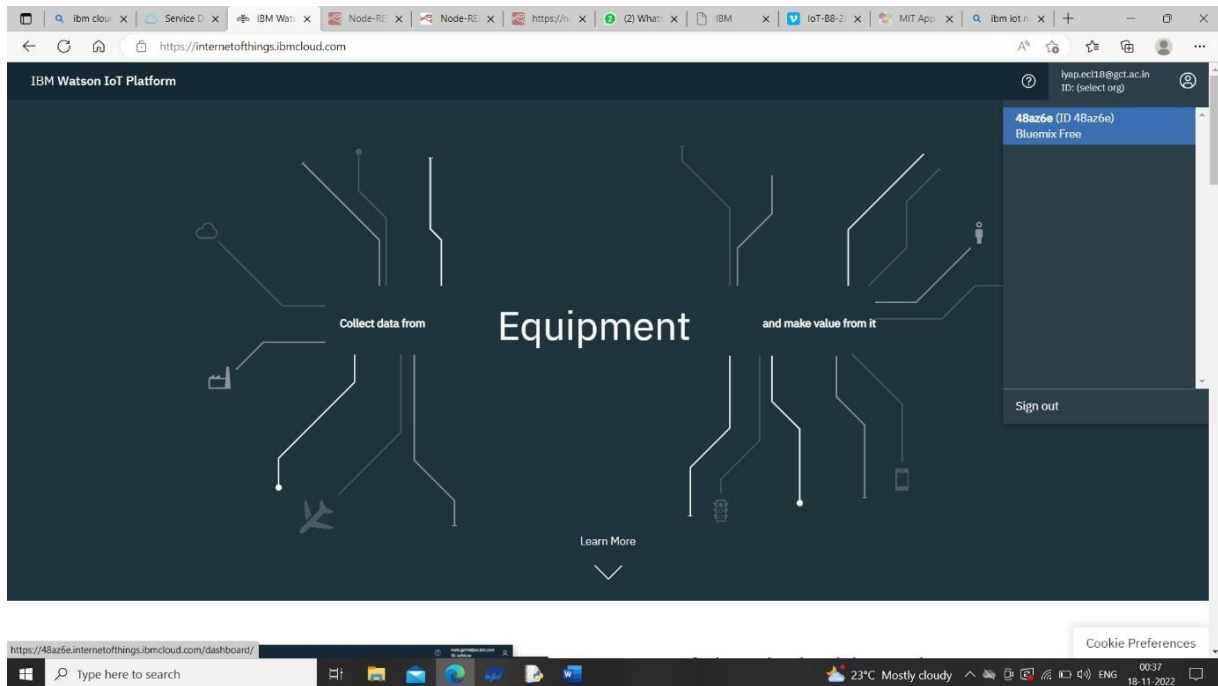
The Lite service plan provides a lightweight

Non-Production

The Non-Production service plan is a full-

Production

The Production service is a fully managed SaaS



# IBM WATSON RANDOM FUNCTION

## CODE

```
{  
  "randomNumber": random(0, 100),  
  "temp": random(90,110),  
  "hum": random(30,70)  
}
```

## RANDOM FUNCTION IN IOT WASTON PLATFORM

The screenshot displays the IBM Watson IoT Platform dashboard. The main page is titled 'Browse Devices' and shows a table with columns: Device ID, Status, Device Type, Class ID, and Date Added. A single device is listed with ID 1234, status 'Connected', and type 'DGGI'. A modal window is open for configuring a new event type named 'iyappan'. The modal includes a 'Schedule' section set to 'Every Minute' and a 'Payload' section containing a JSON object with random values for 'randomNumber', 'temp', and 'hum'.

IBM Watson IoT Platform

Browse Devices

All Devices Diagnose

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.

Search by Device ID

Device ID	Status	Device Type	Class ID	Date Added
1234	Connected	DGGI	Device	Nov 10, 2022

Items per page: 50 | 1-1 of 1 item

Device Type: DGGI

Events: 1

New event type

Event type name: iyappan

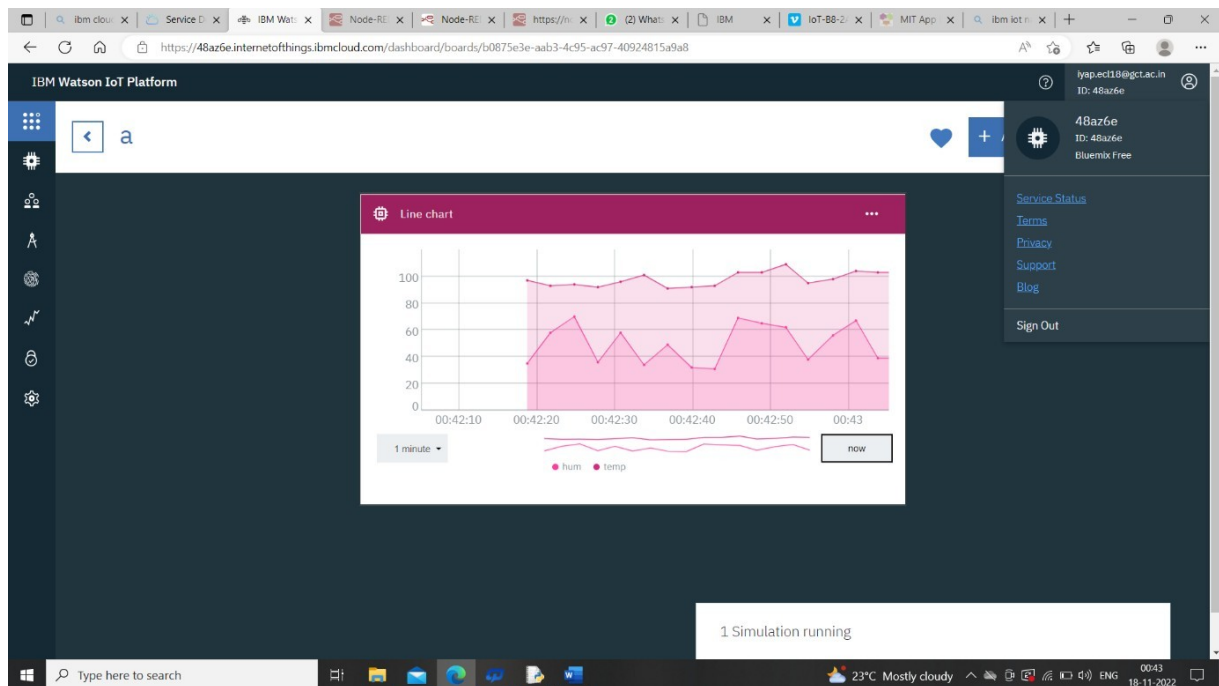
Schedule: 20 Every Minute

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

```
{  
  "randomNumber": random(0, 100),  
  "temp": random(90, 110),  
  "hum": random(30, 70)  
}
```

Upload a CSV file

Cancel Save



IBM Watson IoT Platform

Browse Action Device Types Interfaces

Search by Device ID

Device Simulator

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
1234	Connected	DGCI	Device	Nov 10, 2022 10:57 PM	

Identity Device Information Recent Events State Logs

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

Event	Value	Format	Last Received
iyappan	{"randomNumber":84,"temp":94,"hum":56}	json	a few seconds ago
event	{"weight":94,"level":23}	json	a few seconds ago
iyappan	{"randomNumber":72,"temp":103,"hum":70}	json	a few seconds ago
iyappan	{"randomNumber":89,"temp":90,"hum":60}	json	a few seconds ago

1 Simulation running

# GENARATE API KEY IN IBM WATSON

IBM Watson IoT Platform

Browse IBM Cloud Apps

[+ Generate API Key](#)

## Browse API Keys

Type the app description to search for

This table shows a summary of the API keys that have been added for the organization. It can be filtered, organized, and search on using different criteria. To get started, you can add API keys by clicking [Generate API Key](#), or by using the API. For more information about adding API keys, see [API key connection](#).

<input type="checkbox"/>	Key	Description	Role	Expires	
3 results					
<input type="checkbox"/>	a-48az6e-al10jsr4gw	-	Standard Application	-	<a href="#">View API Key</a>
<input type="checkbox"/>	a-48az6e-ee07y9n7rx	API Key for the device simulator	Standard Application	-	<a href="#">View API Key</a>
<input type="checkbox"/>	a-48az6e-qvdloruiqv	API Key for the device simulator	Standard Application	-	<a href="#">View API Key</a>

1 Simulation running

IBM Watson IoT Platform

Browse IBM Cloud Apps

## The API key has been added.

Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the API key to generate a new authentication token.

### Generated Details

API Key: a-48az6e-m7vaz2pyl2

Authentication Token: gEqLJRQuIXP\*X1IBtS

**Warning:** Make a note of the generated authentication token. Lost authentication tokens cannot be recovered. If you lose the token, you must reregister the API to generate a new token.

### API Key Information

Description: -

Role: Visualization Application

Expires: Never

[View API Key](#) [Add Another](#) [Close](#)

## Browse API Keys

Type the app description to search for

1 Simulation running