

CREATE IBM WATSON IOT PLATFORM AND DEVICE

Team ID	PNT2022TMID45113
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

The screenshot displays the IBM Cloud Catalog web interface. At the top, a navigation bar includes the IBM Cloud logo, a search bar, and links for Catalog, Manage, and the user's account (R Eswari's Account). Below the navigation bar, a large banner area features the word "Catalog" and a search input field. To the right of the banner is an isometric illustration of a data center or cloud environment. Below the banner, a sidebar on the left lists product categories: Recommended products (6), Compute (30), Containers (9), Networking (30), Storage (20), AI / Machine Learning (17), and Analytics (10). The main content area shows "Viewing 206 products" and a list of featured products: Analytics Engine (By IBM), AnonTech ViziVault Platform (By Anon Technology, Inc.), and API Connect (By IBM). Each product card includes a brief description of its capabilities.

cloud.ibm.com/catalog/services/internet-of-things-platform

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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

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	Free

Summary

Internet of Things Platform Free

Location: Frankfurt

Plan: Lite

Service name: Internet of Things Platform-rn

Resource group: Default

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

Create

Add to estimate

cloud.ibm.com/services/iotf-service/crm%3Av1%3Abluemix%3Apublic%3Aiotf-service%3Aeu-de%3Aa%2Fce78c3fe2a14cdbaa35fd6f397bbd7b%3Ab9c0837...

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Resource list /

Internet of Things Platform-rn

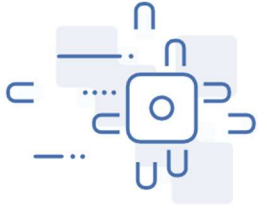
Active Add tags

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 ☐ Non-Production ☐ Production

internetofthings.ibmcloud.com

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IBM Watson IoT Platform

Sign in

Collect data from

Cars

and make value from it

Learn More

Powerful web dashboard

Flexible, scalable and easy to use

Cookie Preferences

login.ibm.com/authsvc/mtfm/sps/authsvc?StatelId=e52e5035-f473-4d2b-a64c-bb61b4f9f9d0

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IBMid

Multi-factor authentication enrollment for email OTP

Enter your email address

This email address is used for two-step verification. An OTP is sent to your email.

pswariramasamy57@gmail.com

Use another method

Send OTP

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login.ibm.com/authsvc/mtfm/sps/authsvc?StateId=0f13e0a7-710d-4464-898a-27b5ada5bdc9

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IBM

Enter code sent to your email

For added security, we sent a 6-digit code to **eswariramasamy57@gmail.com**.
Please enter the code below within 20 minutes

Enter email code

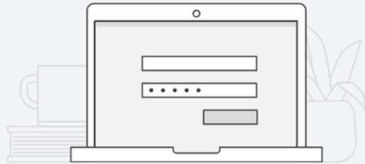
0485-

Verify

Didn't receive the email?
Check your spam filter for an email from
ibmacct@iam.ibm.com
[Resend code](#)

login.ibm.com/authsvc/mtfm/sps/authsvc?StateId=dfc114d2-3514-4966-9535-1fd9f251d395

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IBMid

Enrollment successful

Email was added

eswariramasamy57@gmail.com
You can manage your verification methods and devices from
Security settings.

[Add additional methods](#) [Done](#)

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ft8uop.internetofthings.ibmcloud.com/dashboard/devices/browse/add

IBM Watson IoT Platform

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ID: ft8uop

Browse Action Device Types Interfaces

Add Device

Identity Device Information Security Summary

Select a device type for the device that you are adding and give the device a unique ID.

Device Type

Device ID

Cancel Next

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Browse Action Device Types Interfaces

Add Device

Identity Device Information Security Summary

You can modify the default device information and enter more information about the device for identification purposes.

Serial Number	<input type="text" value="Enter Serial Number"/>	Manufacturer	<input type="text" value="Enter Manufacturer"/>
Model	<input type="text" value="Enter Model"/>	Device Class	<input type="text" value="Enter Device Class"/>
Description	<input type="text" value="Enter Description"/>	Firmware Version	<input type="text" value="Enter Firmware Version"/>
Hardware Version	<input type="text" value="Enter Hardware Version"/>	Descriptive Location	<input type="text" value="Enter Descriptive Location"/>

Add Metadata +

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Add Device

Identity Device Information Security Summary

There are two options for selecting a device authentication token.

Auto-generated authentication token (default)

Allow the service to generate an authentication token for you. Tokens are 18 characters and contain a mix of alphanumeric characters and symbols. The token is returned to you at the end of the device registration process.

Self-provided authentication token

Provide your own authentication token for this device. The token must be between 8 and 36 characters and contain a mix of lowercase and uppercase letters, numbers, and symbols, which can include hyphens, underscores, and periods. Do not use repeated characters, dictionary words, user names, or other predefined sequences.

Authentication Token

Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored.

Authentication token are encrypted before we store them.

ft8uop.internetofthings.ibmcloud.com/dashboard/devices/drilldown/GASLEAKAGE:6789?returnTo=/devices/browse

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← Back

Device Drilldown - 6789

Device Credentials

You registered your device to the organization. Add these credentials to the device to connect it to the platform. After the device is connected, you can navigate to view connection and event details.

Organization ID	ft8uop
Device Type	GASLEAKAGE
Device ID	6789
Authentication Method	use-token-auth
Authentication Token	45678901

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

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Browse Action Device Types Interfaces

Add Device +

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 Simulator ☐

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added
> <input type="checkbox"/>	6789	Disconnected	GASLEAKAGE	Device	Nov 16, 2022 3:05 PM

Items per page 50 | 1-1 of 1 item

1 of 1 page < 1 >

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Browse Action Device Types Interfaces

Search by Device ID

<input type="checkbox"/>	Device ID	Status	Device Type
> <input type="checkbox"/>	6789	Disconnected	GASLEAKAGE

Identity Device Information Recent Events State

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

Event Value

Simulations

Import/Export simulation

You can use the simulated event data to learn about, test, and demonstrate fully functioning Watson IoT Platform features. You can simulate a device and its data or simulate only data for a device that is already registered.

To create a device simulation:

1. Select a device type.
2. Configure the event and payload.
3. Add devices.

Select or create a device type...

GASLEAKAGE

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Browse Action Device Types Interfaces

Search by Device ID

Device ID	Status	Device Type
6789	Disconnected	GASLEAKAGE

Identity Device Information Recent Events State

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

Event Value

Device Type: GASLEAKAGE

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   "randomNumber": random(0, 100)
2 }
3
```

Upload a CSV file

What functions can I apply?

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Browse Action Device Types Interfaces

Search by Device ID

Device ID	Status	Device Type
6789	Disconnected	GASLEAKAGE

Identity Device Information Recent Events State

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

Event Value

Simulations Import/Export simulation

1/50 Simulations Running Select or create a device type...

Device Type GASLEAKAGE 1 Event

1 Device

S GASLEAKAGE_1

1 x Create Simulated Device Use Registered Device

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Browse Action Device Types Interfaces

6789 Disconnected GASLEAKAGE Device Nov 16, 2022 3:05 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
event_1	{"randomNumber":89}	json	a few seconds ago
event_1	{"randomNumber":64}	json	a few seconds ago
event_1	{"randomNumber":18}	json	a few seconds ago
event_1	{"randomNumber":2}	json	a few seconds ago
event_1	{"randomNumber":71}	json	a few seconds ago

3 Simulations running

(293) L x IBM x IBM x Project x IBM C x My Dri x IBM-EI x IBM C x Downl x Service x IBM V x

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Your boards Public boards

Create New Board

USAGE OVERVIEW
3 Cards
Owned by you

RISK AND SECURITY OVERVIEW
4 Cards
Owned by you

Boards shared with you

3 Simulations running

ft8uop.internetofthings.ibmcloud.com/dashboard/boards/dd2c5442-193e-4add-acc4-49a7cc452174

IBM Watson IoT Platform

GASIBM

Card source data
6789

Card preview

Card information

Create Line chart Card

Connect data set

GAS

Event

event_1

Property

randomNumber

Name

GAS

Type

Text

Unit

°C

Connect new data set

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Add New Card Settings

ft8uop.internetofthings.ibmcloud.com/dashboard/boards/dd2c5442-193e-4add-acc4-49a7cc452174

IBM Watson IoT Platform

GASIBM

Line chart

Donut chart

100
80
60
40
20
0

15:24 15:26 15:28

5 minutes now

GAS

Total
93
°C

3 Simulations running

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Add New Card Paste Card Settings