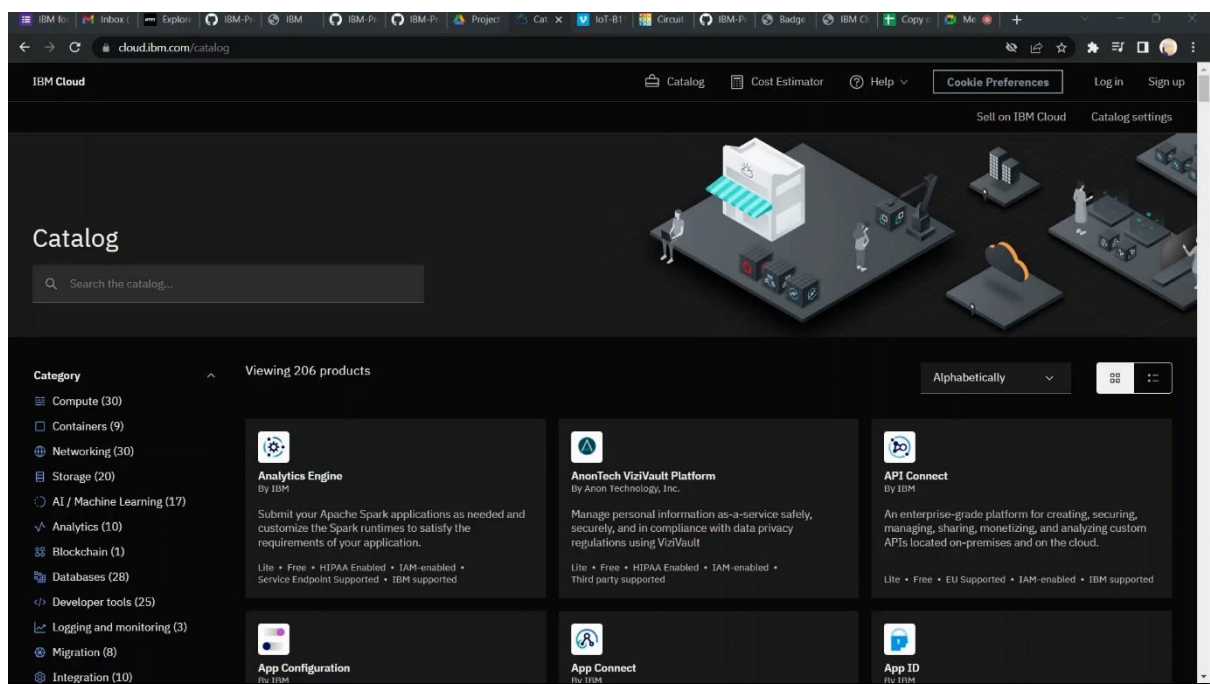


# CREATE IBM WATSON IOT PLATFORM AND DEVICE


Team ID	PNT2022TMID19147
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES



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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.

CreateAbout

TypeService

ProviderIBM

Last updated08/15/2022

CategoryInternet of Things

ComplianceIAM-enabled

LocationFrankfurtLondonDallasWashington DC

Related linksDocsTerms

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	<p>Includes up to 500 registered devices, and a maximum of 200 MB of each data metric</p> <ul style="list-style-type: none"><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> <p>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.</p> <p>Lite plan services are deleted after 30 days of inactivity.</p>	Free

Summary

Internet of Things PlatformFree

Location: Frankfurt

Plan: Lite

Service name: Internet of Things Platform-rc

Resource group: Default

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Resource list /

Internet of Things Platform-rcActiveAdd tags

DetailsActions...

Manage

PlanConnections



### 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.

LaunchDocs

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
- 200 MB data-transfer limit
- 500 application bindings limit

○

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.

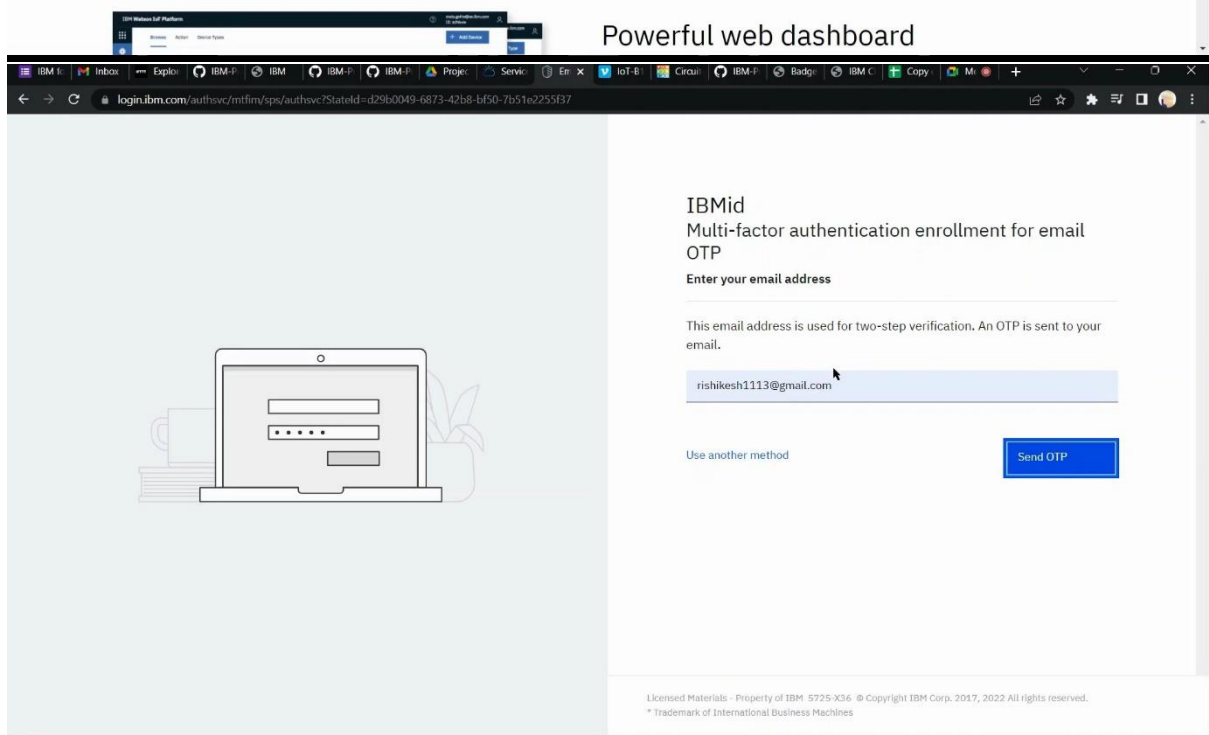
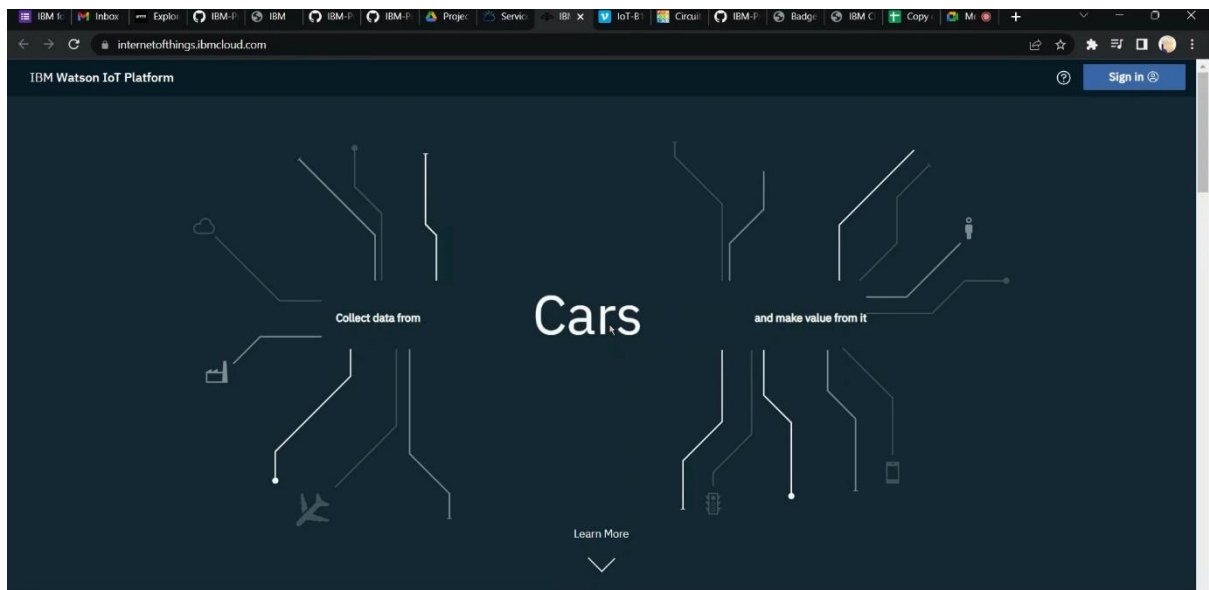
- Starts at \$500 per month
- Capacity limit based on device type
- Optional Analytics Service and Blockchain

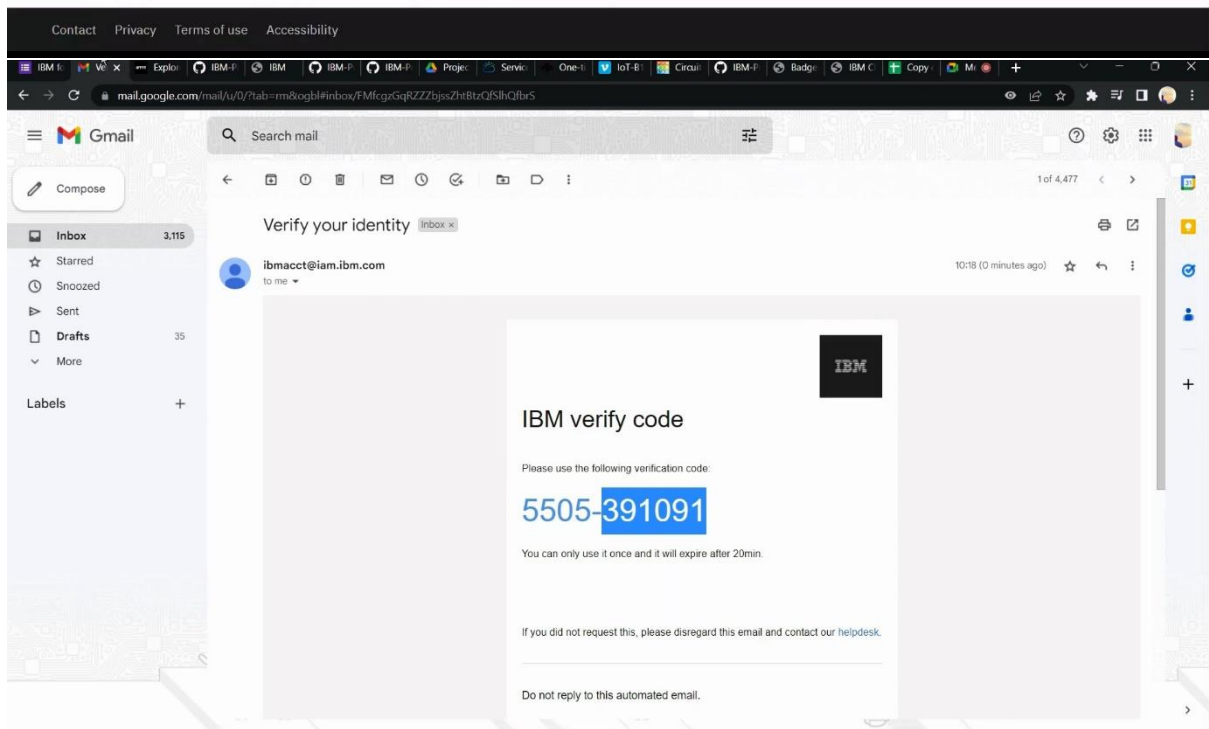
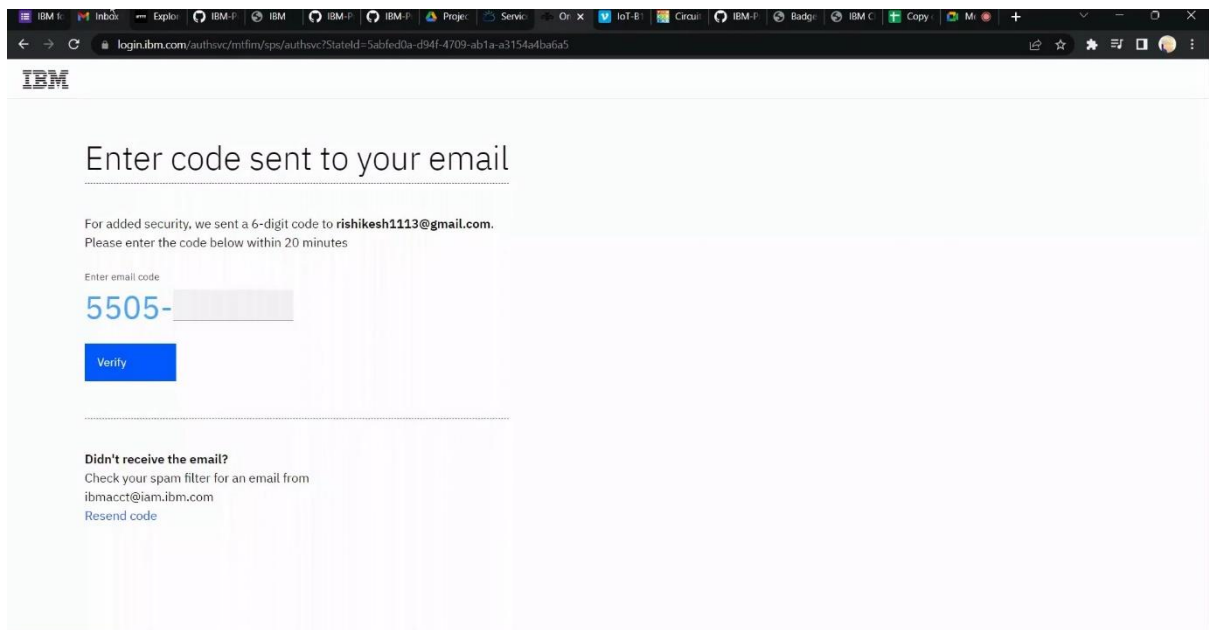
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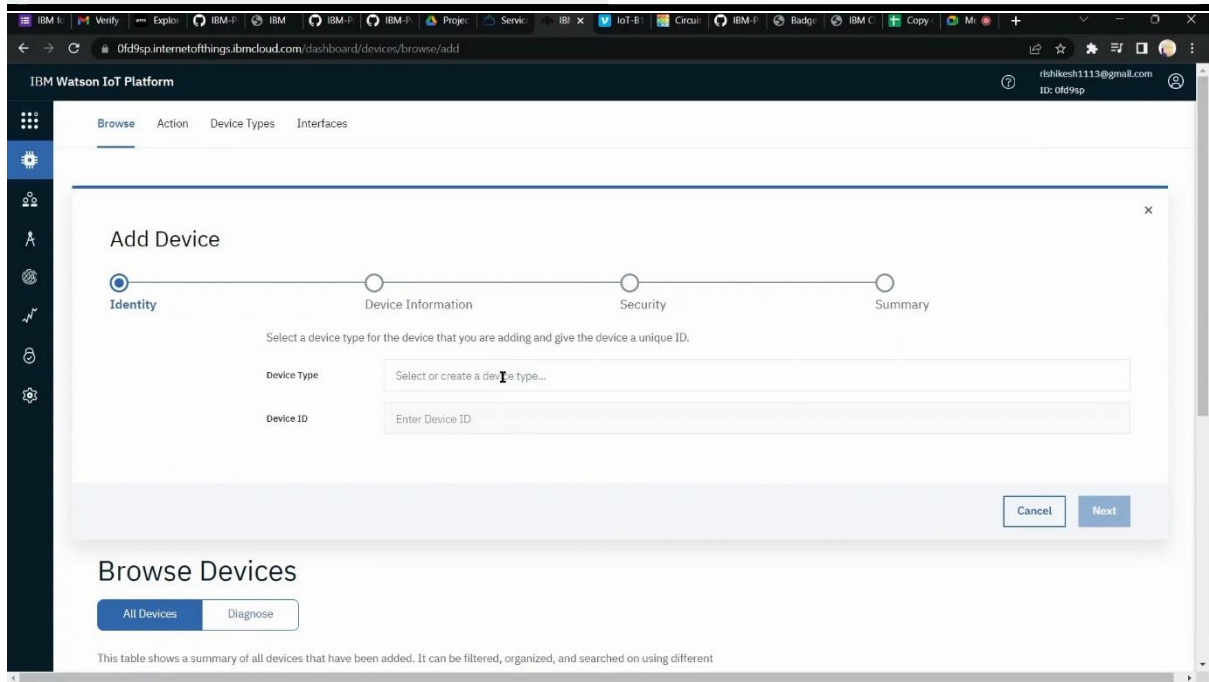
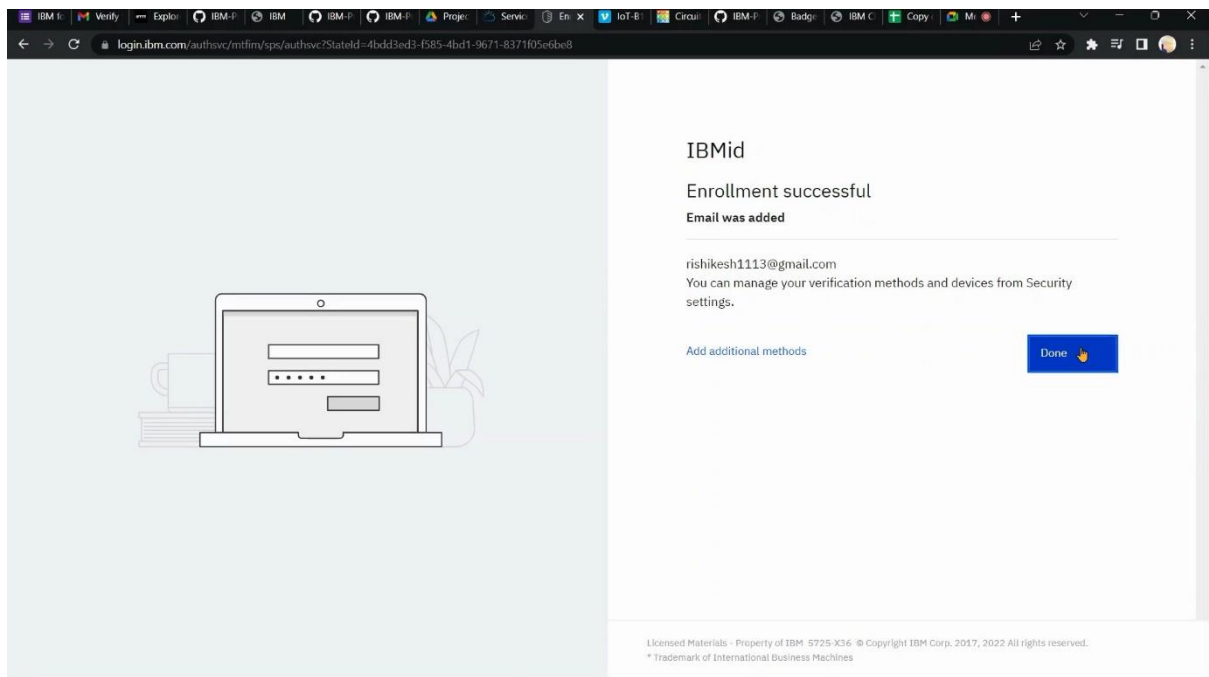
Production

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

- Includes IBM Service & Support
- Pricing based on number of devices per device type







IBM Watson IoT Platform

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"/>

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Browse Action Device Types Interfaces

## 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 tokens are encrypted before we store them.

IBM Watson IoT Platform

← Back

## Device Drilldown - 1234

**Device Credentials**

- Connection Information
- Recent Events
- State
- Device Information
- Metadata
- Diagnostics
- Connection Logs
- Device Actions

### 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	0fd9sp
Device Type	GASLEAKAGE
Device ID	1234
Authentication Method	use-token-auth
Authentication Token	12345678

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

[Find out how to add these credentials to your device.](#)

### Connection Information

Basic connection information about this device.

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Browse Action Device Types Interfaces

**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	Descriptive Location
> <input type="checkbox"/>	1234	Disconnected	GASLEAKAGE	Device	Nov 11, 2022 10:20 AM	

Items per page 50 | 1-1 of 1 item

1 of 1 page < 1 >

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Browse Action Device Types Interfaces

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
1234	Disconnected	GASLEAKAGE	Device	Nov 3

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

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

Project1

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Browse Action Device Types Interfaces

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
1234	Disconnected	GASLEAKAGE	Device	Nov 3

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

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  "temp": random(10, 80)
3  "hum": random(80, 100)
4 }
5
```

Upload a CSV file

Cancel Save



IBM Watson IoT Platform

0fd9sp.internetofthings.ibmcloud.com/dashboard/devices/browse

12345678910111213141516171819202122232425262728293031323334353637383940414243444546474849505152535455565758596061626364656667686970717273747576777879808182838485868788899091929394959697989910010110210310410510610710810911011111211311411511611711811912012112212312412512612712812913013113213313413513613713813914014114214314414514614714814915015115215315415515615715815916016116216316416516616716816917017117217317417517617717817918018118218318418518618718818919019119219319419519619719819920020120220320420520620720820921021121221321421521621721821922022122222322422522622722822923023123223323423523623723823924024124224324424524624724824925025125225325425525625725825926026126226326426526626726826927027127227327427527627727827928028128228328428528628728828929029129229329429529629729829930030130230330430530630730830931031131231331431531631731831932032132232332432532632732832933033133233333433533633733833934034134234334434534634734834935035135235335435535635735835936036136236336436536636736836937037137237337437537637737837938038138238338438538638738838939039139239339439539639739839940040140240340440540640740840941041141241341441541641741841942042142242342442542642742842943043143243343443543643743843944044144244344444544644744844945045145245345445545645745845946046146246346446546646746846947047147247347447547647747847948048148248348448548648748848949049149249349449549649749849950050150250350450550650750850951051151251351451551651751851952052152252352452552652752852953053153253353453553653753853954054154254354454554654754854955055155255355455555655755855956056156256356456556656756856957057157257357457557657757857958058158258358458558658758858959059159259359459559659759859960060160260360460560660760860961061161261361461561661761861962062162262362462562662762862963063163263363463563663763863964064164264364464564664764864965065165265365465565665765865966066166266366466566666766866967067167267367467567667767867968068168268368468568668768868969069169269369469569669769869970070170270370470570670770870971071171271371471571671771871972072172272372472572672772872973073173273373473573673773873974074174274374474574674774874975075175275375475575675775875976076176276376476576676776876977077177277377477577677777877978078178278378478578678778878979079179279379479579679779879980080180280380480580680780880981081181281381481581681781881982082182282382482582682782882983083183283383483583683783883984084184284384484584684784884985085185285385485585685785885986086186286386486586686786886987087187287387487587687787887988088188288388488588688788888989089189289389489589689789889990090190290390490590690790890991091191291391491591691791891992092192292392492592692792892993093193293393493593693793893994094194294394494594694794894995095195295395495595695795895996096196296396496596696796896997097197297397497597697797897998098198298398498598698798898999099199299399499599699799899910001001100210031004100510061007100810091010101110121013101410151016101710181019102010211022102310241025102610271028102910301031103210331034103510361037103810391040104110421043104410451046104710481049105010511052105310541055105610571058105910601061106210631064106510661067106810691070107110721073107410751076107710781079108010811082108310841085108610871088108910901091109210931094109510961097109810991100110111021103110411051106110711081109111011111112111311141115111611171118111911201121112211231124112511261127112811291130113111321133113411351136113711381139114011411142114311441145114611471148114911501151115211531154115511561157115811591160116111621163116411651166116711681169117011711172117311741175117611771178117911801181118211831184118511861187118811891190119111921193119411951196119711981199120012011202120312041205120612071208120912101211121212131214121512161217121812191220122112221223122412251226122712281229123012311232123312341235123612371238123912401241124212431244124512461247124812491250125112521253125412551256125712581259126012611262126312641265126612671268126912701271127212731274127512761277127812791280128112821283128412851286128712881289129012911292129312941295129612971298129913001301130213031304130513061307130813091310131113121313131413151316131713181319132013211322132313241325132613271328132913301331133213331334133513361337133813391340134113421343134413451346134713481349135013511352135313541355135613571358135913601361136213631364136513661367136813691370137113721373137413751376137713781379138013811382138313841385138613871388138913901391139213931394139513961397139813991400140114021403140414051406140714081409141014111412141314141415141614171418141914201421142214231424142514261427142814291430143114321433143414351436143714381439144014411442144314441445144614471448144914501451145214531454145514561457145814591460146114621463146414651466146714681469147014711472147314741475147614771478147914801481148214831484148514861487148814891490149114921493149414951496149714981499150015011502150315041505150615071508150915101511151215131514151515161517151815191520152115221523152415251526152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IBM Watson IoT Platform

0fd9sp.internetofthings.ibmcloud.com/dashboard/devices/browse

Device ID: 1234, Status: Disconnected, Device Type: GASLEAKAGE, Class ID: Device

Simulations: 1/50 Simulations Running

Device Type: GASLEAKAGE

Device: 1234

1 x Create Simulated Device Use Registered Device

7 events sent 308 bytes sent

Event	Value	Format	Last Received
pro1	{"randomNumber":92,"temp":33,"hum":97}	json	a few seconds ago
pro1	{"randomNumber":43,"temp":83,"hum":87}	json	a few seconds ago
pro1	{"randomNumber":73,"temp":50,"hum":96}	json	a few seconds ago
pro1	{"randomNumber":91,"temp":44,"hum":97}	json	a few seconds ago
pro1	{"randomNumber":46,"temp":37,"hum":86}	json	a few seconds ago

IBM Watson IoT Platform

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Device ID: 1234, Status: Disconnected, Device Type: GASLEAKAGE, Class ID: Device, Date Added: Nov 11, 2022 10:20 AM, Descriptive Location:

Simulations: 1 Simulation running

Event	Value	Format	Last Received
pro1	{"randomNumber":16,"temp":23,"hum":92}	json	a few seconds ago
pro1	{"randomNumber":84,"temp":54,"hum":98}	json	a few seconds ago
pro1	{"randomNumber":88,"temp":19,"hum":83}	json	a few seconds ago
pro1	{"randomNumber":92,"temp":33,"hum":97}	json	a few seconds ago
pro1	{"randomNumber":43,"temp":83,"hum":87}	json	a few seconds ago

