



## **Configure IBM Watson IoT Platform to Connect a Device**

IBM Watson IoT Platform is a complete end-to-end solution for IoT needs. It integrates a bundled set of services to connect, capture, register, analyze, and archive your IoT devices and data. Can securely connect, collect and start processing IoT data from devices.

For more information and documentation on IBM Watson IoT Platform please see the following - [https://www.ibm.com/support/knowledgecenter/en/SSQP8H/iot/kc\\_welcome.htm](https://www.ibm.com/support/knowledgecenter/en/SSQP8H/iot/kc_welcome.htm)

For more information and documentation on IBM Cloud please see the following - <https://cloud.ibm.com/docs>

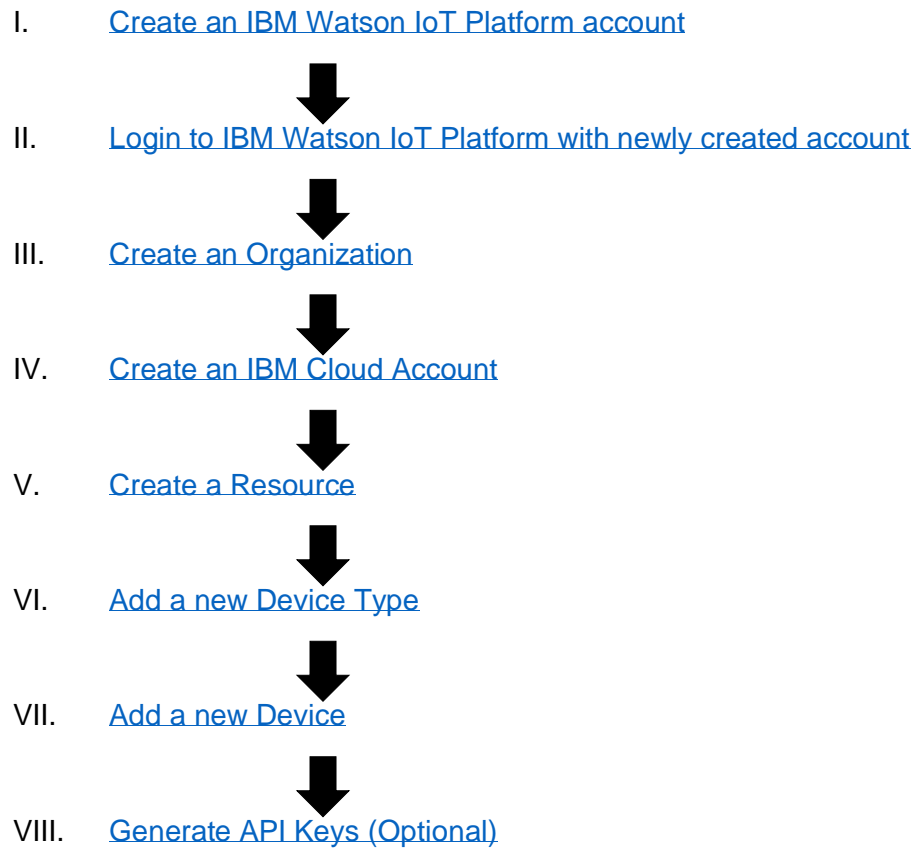
The first steps to capture data from devices is to create IBM Watson IoT Platform and IBM cloud accounts, register device type(s) and register device(s).

Registering a device involves classifying the device as a device type, giving the device a name, and providing device information. Then, you provide a connection token or accept a token that is generated by IBM Watson IoT Platform.

This document covers the above steps to get started with connecting devices. This document assumes no IBM Watson IoT Platform account exists. This document is part one of a series of documents. Part two will cover configuring the device to connect and connecting to IBM Watson IoT Platform.



The process is:

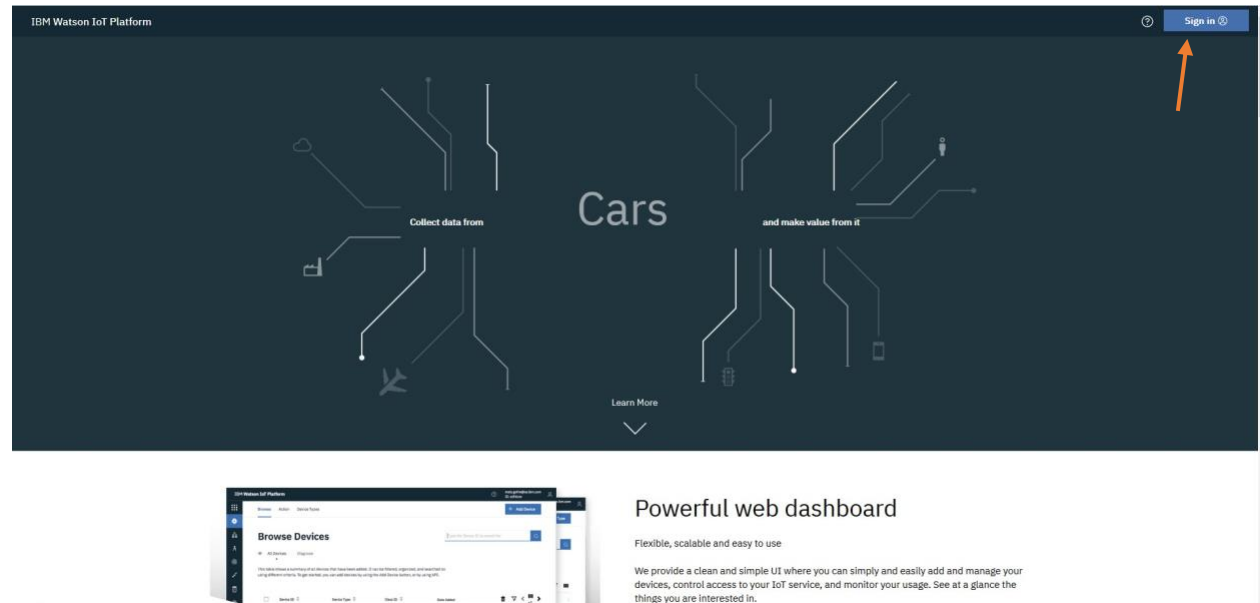




## I. Create an IBM Watson IoT Platform Account


An account can be created from the IBM Watson IoT Platform Page - <https://internetofthings.ibmcloud.com/>

Click Sign in





Click Create an IBMid



Log in to IBM

IBMid [Forgot IBMid?](#)

☒ Remember me ⓘ


[Continue](#)

Don't have an account? [Create an IBMid](#)

Need help? [Contact the IBMid help desk](#)

[Contact](#) [Privacy](#) [Terms of use](#) [Accessibility](#) [Cookie preferences](#)

Enter the information on the page and click Continue



**Create your IBM account**

Access to trials, demos, starter kits, services and APIs


**Sign up for an IBMid**


Already have an IBM account? [Log in](#)

Email \*


First name \*

Last name \*

Country or region \* (?) 



Set a password \*




- 8 characters minimum
- One uppercase character
- One lowercase character
- One number

IBM may use my contact data to keep me informed of products, services and offerings:

☒ by email.

You can withdraw your marketing consent at any time by sending an email to [netsupp@us.ibm.com](mailto:netsupp@us.ibm.com). Also you may unsubscribe from receiving marketing emails by clicking the unsubscribe link in each such email.

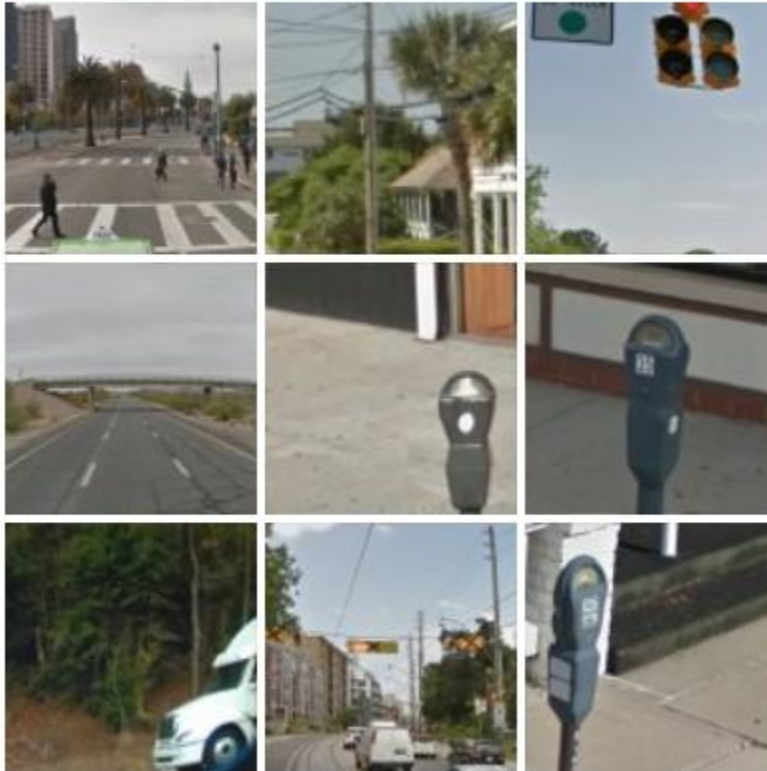
[More information on our processing can be found in the IBM Privacy Policy](#)





Follow the verify instructions and click Verify

Select all images with  
**parking meters**



VERIFY



Review the Privacy information and click Proceed

---

## About your IBMid Account Privacy

This notice provides information about accessing your IBMid user account (Account). If you have previously been presented with a version of this notice, please refer to "Changes since the previous version of this notice" below for information about the new updates.

---

+ Changes since the previous version of this notice

---

+ What data does IBM collect?

---

+ Why IBM needs your data

---

+ How your data was obtained

---

+ How IBM uses your data

---

+ How IBM protects your data

---

+ How long we keep your data

---

+ Your rights

---

I acknowledge that I understand how IBM is using my Basic Personal Data and I am at least 16 years of age.

**Proceed**

This document was last updated on 2018-05-04

---



Enter the 7 digit code sent to the email address earlier entered and click Verify

A screenshot of the IBM account creation verification page. The page has a light gray background. At the top left is the IBM logo. The main content area is a white card. On the left side of the card, it says "Create your IBM account" in bold, followed by "Access to trials, demos, starter kits, services and APIs." Below this text is a colorful, pixelated graphic. On the right side of the card, there is a "Check your email" section. It includes a "Back" link and "Step 2/2" indicator. The text says: "For your security, we need to verify your identity. We sent a 7-digit code to [ibmiotdevice@gmail.com](mailto:ibmiotdevice@gmail.com). Please enter it below." There is a text input field for the 7-digit code, followed by a blue "Verify" button. Below the button, it says: "Didn't receive the email? Check your spam filter for an email from [ibmacct@iam.ibm.com](mailto:ibmacct@iam.ibm.com)." and a "Resend code" link. At the bottom of the page, there is a footer with links: "Contact IBM", "Privacy", "Terms of use", "Accessibility", and "Cookie preferences".

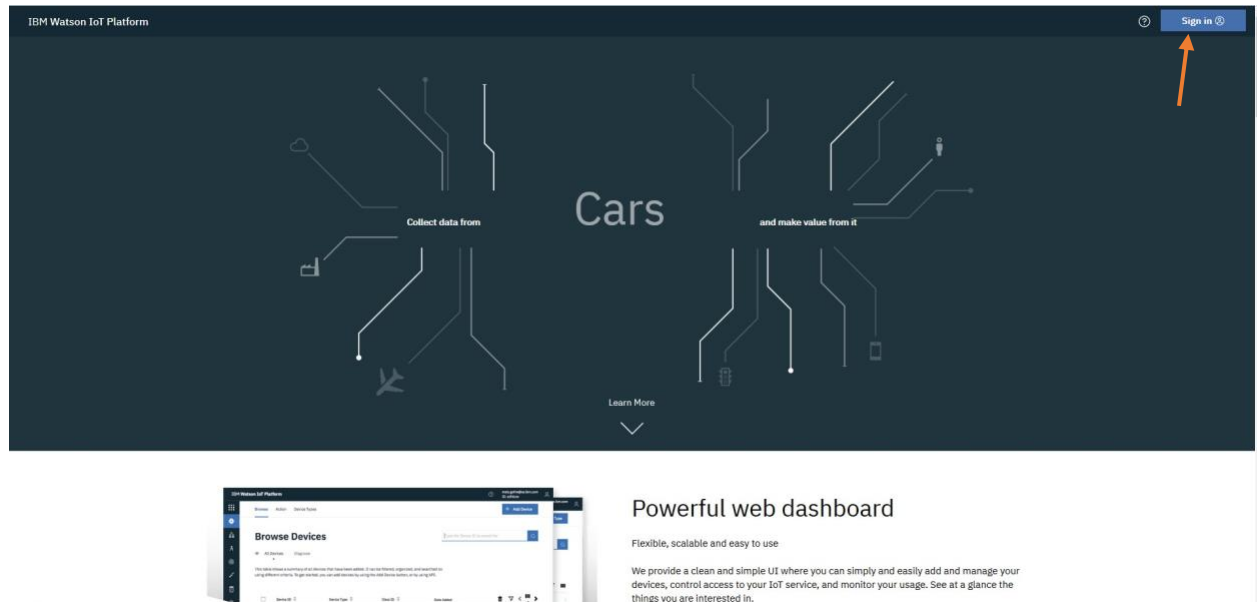
Now you can login to IBM Watson IoT Platform



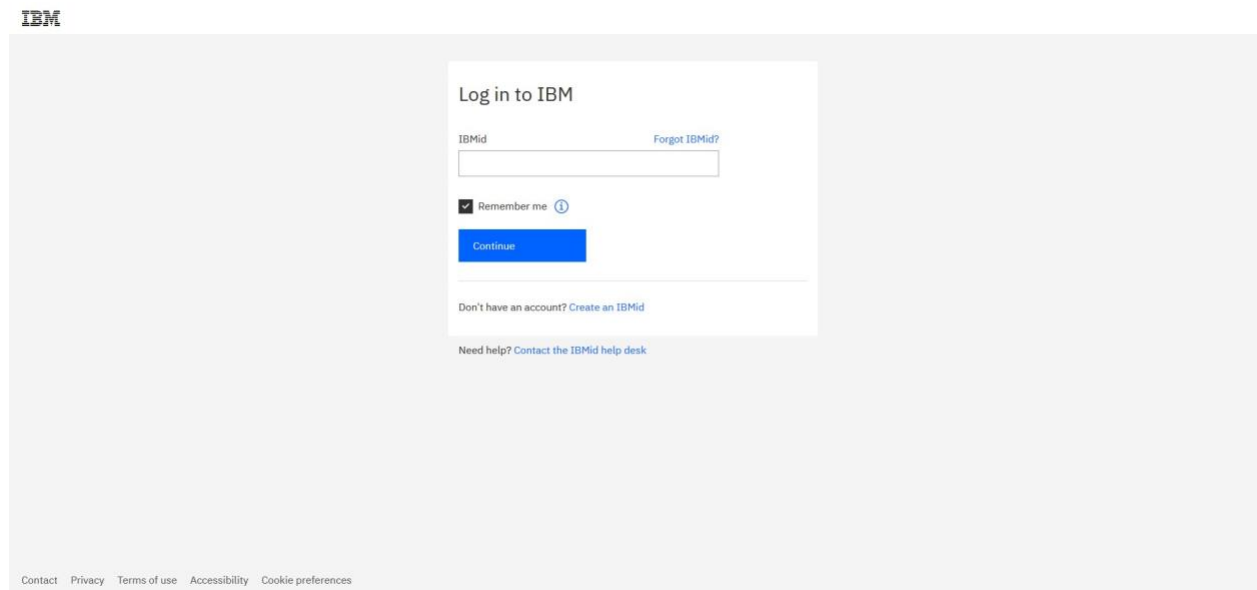
## II. Login to IBM Watson IoT Platform

Go to URL - <https://internetofthings.ibmcloud.com/>

Click Sign in



Enter the IBMid earlier created and click Continue  
(Click Remember Me if you want)

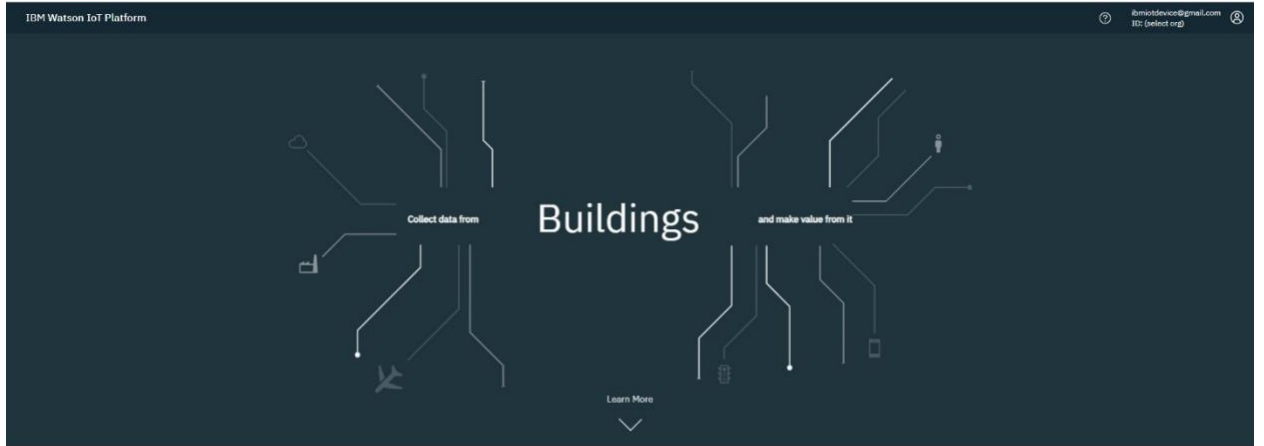






Enter the Password earlier created and click Login  
(Click Remember Me if you want)

You are now logged into IBM Watson IoT Platform



## Powerful web dashboard

Flexible, scalable and easy to use

We provide a clean and simple UI where you can simply and easily add and manage your devices, control access to your IoT service, and monitor your usage. See at a glance the things you are interested in.



### III. Create an Organization

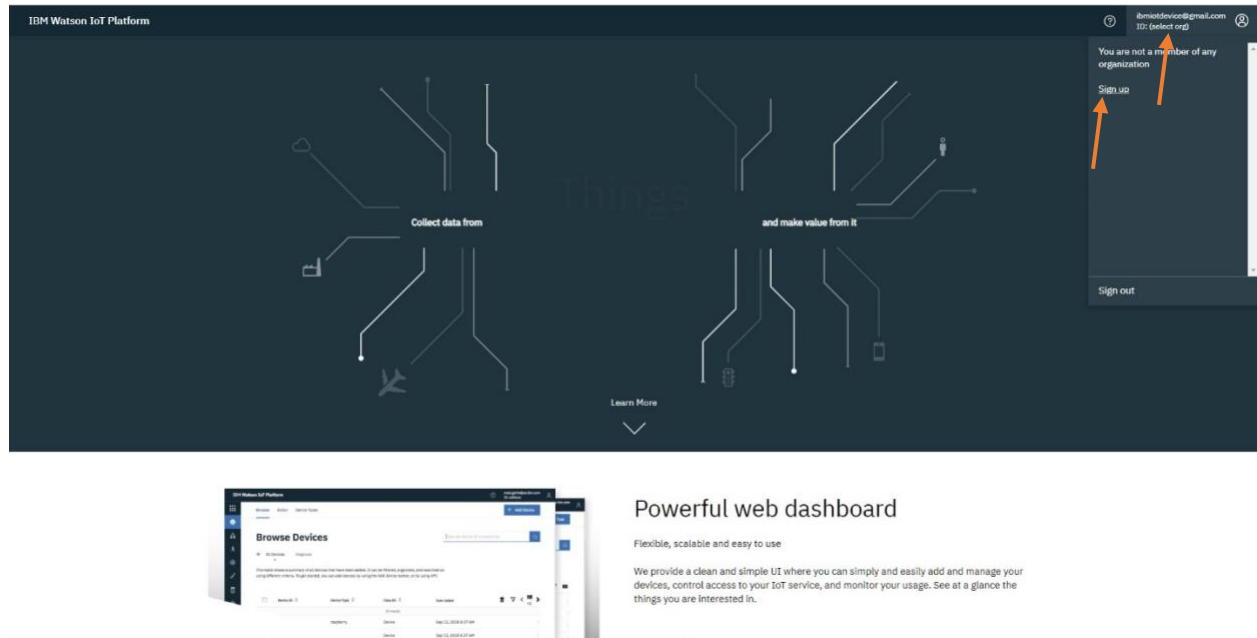
Being logged into IBM Watson IoT Platform, Click Select org.

The org that will be created is an Internet of Things resource in IBM Cloud.

For information on resources see the following -

<https://cloud.ibm.com/docs/resources?topic=resources-resource#resource>

Click Sign up



This takes you to the IBM Cloud page



Enter your IBMid and click Continue  
(Click Remember Me if you want)

Welcome to  
**IBM Cloud**

Start building immediately using  
190+ unique services.

Create an IBM Cloud account

**Get a \$200 credit when you upgrade**  
After you upgrade to a Pay-As-You-Go account, you can use the credit to try new services or scale your projects. The credit is valid for one month and can be used with any of our IBM Cloud offerings.

Learn more:  
[Pricing](#) [Catalog](#) [Docs](#) [Status](#)

Follow us on  
f t y i

Log in to IBM Cloud

ID

IBMId

☐ Remember me

Forgot ID?  
Forgot password?

Continue

© Copyright IBM Corp. 2014, 2015. All rights reserved.

Cookie Preferences

Enter Password and click Log in

Welcome to  
**IBM Cloud**

Start building immediately using  
190+ unique services.

Create an IBM Cloud account

**Get a \$200 credit when you upgrade**  
After you upgrade to a Pay-As-You-Go account, you can use the credit to try new services or scale your projects. The credit is valid for one month and can be used with any of our IBM Cloud offerings.

Learn more:  
[Pricing](#) [Catalog](#) [Docs](#) [Status](#)

Follow us on  
f t y i

Log in to IBM Cloud

ID

IBMId

Password

Forgot ID?  
Forgot password?

Log In

© Copyright IBM Corp. 2014, 2015. All rights reserved.



If you already have an IBM Cloud account, you will see your IBM Cloud Dashboard. You can skip the steps to create an account and go to the [Create Resource](#) section.

# Build for free on IBM Cloud

**Develop for free, no credit card required**  
Apps, AI, analytics, and more. Build with 40+ IaaS services at no cost to you - ever.

**Access the full catalog at your fingertips**  
Upgrade your account and unlock 190+ unique offerings, plus get a \$200 credit to use with any offering you want.

**Learn more**  
[Pricing](#) [Catalog](#) [Docs](#)

Already have an IBM Cloud account? [Log in](#)

## Create a free account

Join us in the cloud and start building today!

**Let's get you started**  
You don't have an IBM Cloud account yet. Sign up for one with your IBMid to start building in the cloud.

**Email**

**First Name**

**Last Name**

**Country or Region**


**Password**

IBM may use my contact data to keep me informed of products, services and offerings:  
☒ by email.

You can withdraw your marketing consent at any time by sending an email to [optout@us.ibm.com](mailto:optout@us.ibm.com). Also you may unsubscribe from receiving marketing emails by clicking the unsubscribe link in each such email.

More information on our processing can be found in the [IBM Privacy Statement](#). By submitting this form, I acknowledge that I have read and understand the IBM Privacy Statement.

I accept the product [Terms and Conditions](#) of this registration form.

 [Privacy](#) [Terms](#)



#### IV. Create an IBM Cloud Account

Enter the IBMid earlier created email and click the arrow (->) at the end of the field  
Click Create Account

The screenshot shows the IBM Cloud 'Build for free' landing page on the left and the account creation form on the right.

**Build for free on IBM Cloud**

**Develop for free, no credit card required**  
Apps, AI, analytics, and more. Build with 40+ Lite plan services at no cost to you - even.

**Access the full catalog at your fingertips**  
Upgrade your account and unlock 130+ unique offerings, plus get a \$200 credit to use with any offering you want.

**Learn more**  
[Pricing](#) [Catalog](#) [Docs](#)

**Already have an IBM Cloud account? [Log In](#)**

**Create a free account**  
Join us in the cloud and start building today.

**Let's get you started**  
You don't have an IBM Cloud account yet. Sign up for one with your IBMid to start building in the cloud.

**Email**

This email address is associated with an IBMid. You'll log in to your IBM Cloud account with this IBMid.

IBM may use my contact data to keep me informed of products, services and offerings:  
☒ by email.

You can withdraw your marketing consent at any time by sending an email to [netssup@us.ibm.com](mailto:netssup@us.ibm.com). Also you may unsubscribe from receiving marketing emails by clicking the unsubscribe link in each such email.

More information on our processing can be found in the [IBM Privacy Statement](#). By submitting this form, I acknowledge that I have read and understand the IBM Privacy Statement.

I accept the product [Terms and Conditions](#) of this registration form.

**Create Account**





© Copyright IBM Corp. 2024, 2028. All rights reserved.

[Privacy Policy](#)



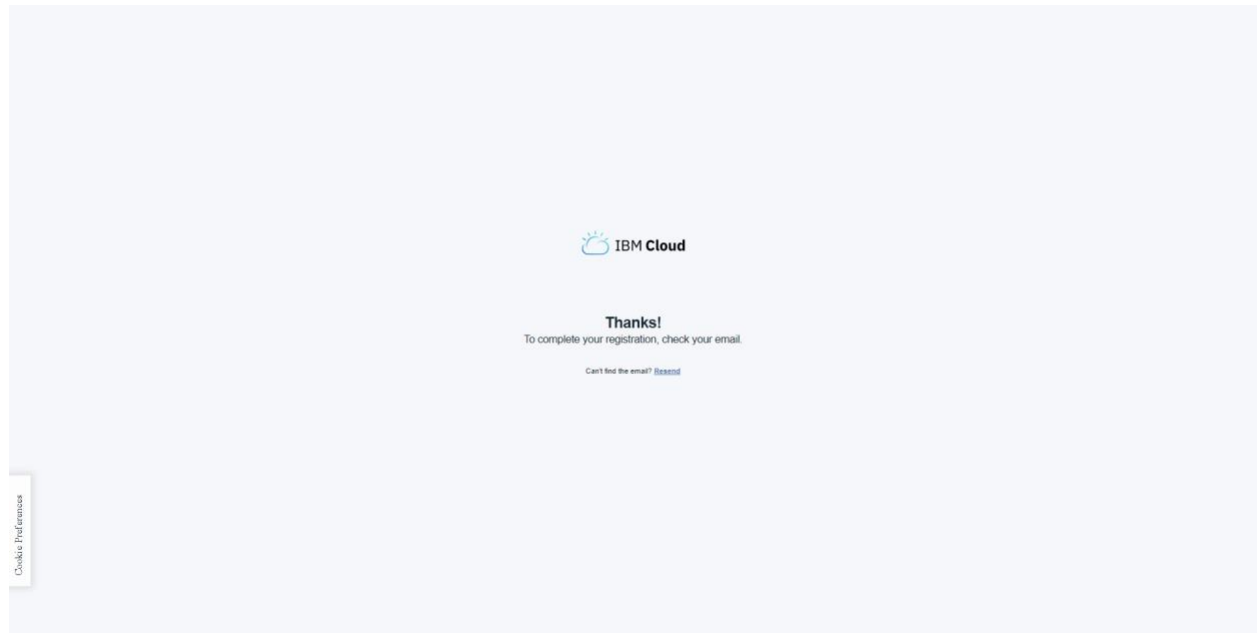
Follow the Verify instructions and click the appropriate button (skip or next)  
Follow the Verify instructions on the next page and click Verify

Select all squares with  
**traffic lights**  
If there are none, click skip

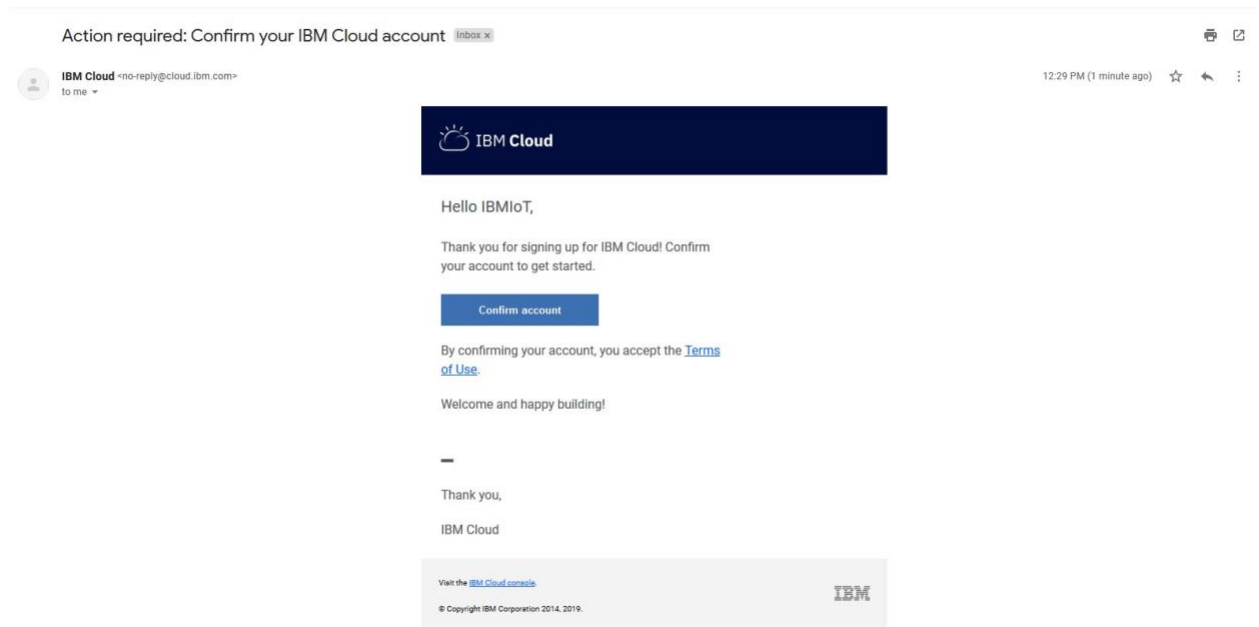





As instructed, check your email

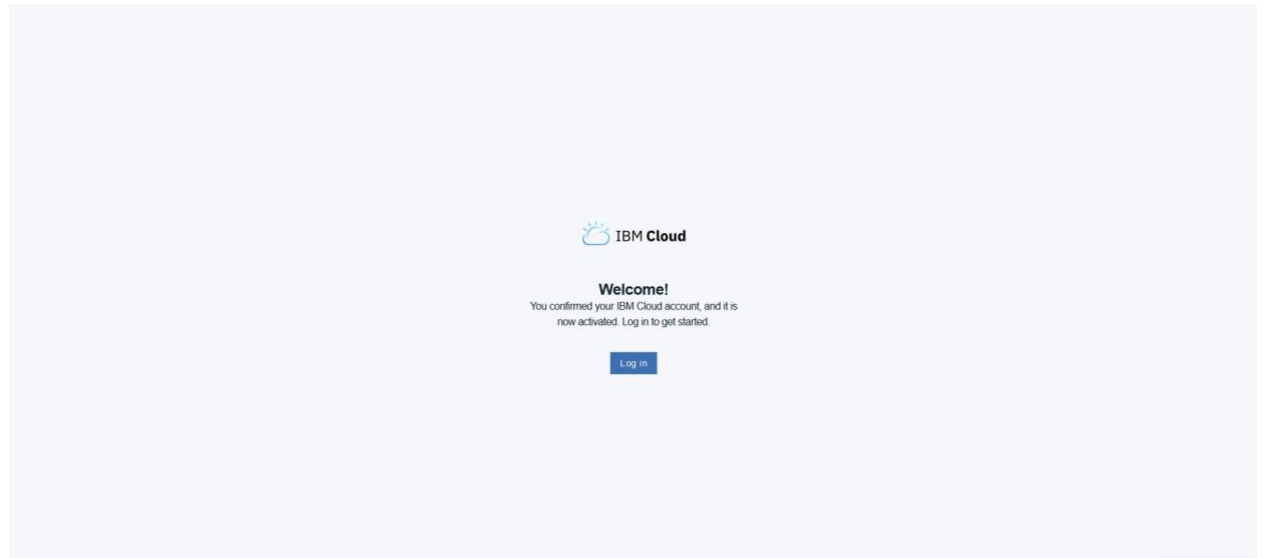


From the email received, click Confirm account





Browser opens with the following message  
Click Log in



If prompted, enter IBMid and password  
If you are in the same browser session, you will be logged into the IBM Cloud Dashboard





## V. Create a Resource

For information on resources see the following -

<https://cloud.ibm.com/docs/resources?topic=resources-resource#resource>

Click Create resource

The screenshot shows the IBM Cloud Dashboard interface. At the top, there is a navigation bar with the IBM Cloud logo, a search bar, and links to Catalog, Docs, Support, and Manage. The user's account is identified as 'IBMTOT DeviceTest's Account'. Below the navigation bar, the dashboard is divided into several sections. The 'Resource summary' section on the left includes links for 'What is a resource?', 'Regions for resource deployment', and 'Best practices for organizing resources in resource group'. It also features a 'Create' button. The 'Planned maintenance' section in the middle shows the next event on Tuesday, July 23, 2019, at 1:00 PM, with a list of upcoming events. The 'Location status' section on the right displays a table of regions with their status: Asia Pacific, Europe, North America, and South America, all marked as 'View status'. The 'Apps' section shows a message that the widget can't be loaded at this time. The 'Support cases' section shows a message that the user can view a summary of support cases after submission. The 'Usage' section shows a message that the user can view usage for billable resources. The 'User access' section shows a message that the user can manage users. The 'Learn' section shows a message that the user can extend resources with tools. The 'Recommended offerings' section shows a list of offerings, including 'Virtual Servers' and 'Blockchain'. An orange arrow points to the 'Create resource' button in the top right corner of the dashboard.

Dashboard Customize Upgrade account **Create resource**

**Resource summary** View resources

[What is a resource?](#)  
[Regions for resource deployment](#)  
[Best practices for organizing resources in resource group](#)

View a summary of resources in your account here.

Create

**Planned maintenance** View events

Next event: Tue, Jul 23, 2019 1:00 PM  
Update the TLS certificates (some clusters only)

**Upcoming**

Deploy service improvements to some Dallas data center...  
Migrate the service to the IBM Cloud database.  
Migrate the service datastores to the new IBM Cloud Data...

**Location status** View status

Asia Pacific	✓
Europe	✓
North America	✓
South America	✓

**Apps**

This widget can't be loaded at this time. Refresh the page to try again.

**Support cases** View support

You can view a summary of your support cases here after you submit them. [Learn more about how to get support.](#)

**Usage** View usage

You can view usage for billable resources here.

**User access** Manage users

**Learn** View more

Extend your resources with tools  
Manage your account and users  
Check out our solution tutorials

**Recommended offerings** View Catalog

- Virtual Servers**  
Up to 64 vCPU and 512 GB RAM to fit any workload n...
- Blockchain**  
Simplify the developmental, governmental, and operation...



## Click Internet of Things

Click to go back, hold to see history

IBM Cloud Search resources and offerings...

Try the best of the Catalog for free with no time restrictions with Lite plans.  
The Lite filter is enabled. Remove the filter to see the full Catalog.

Catalog

label:lite Filter

All Categories (57) >

- VPC Infrastructure
- Compute (10)
- Containers (1)
- Networking
- Storage (1)
- AI (15)
- Analytics (4)
- Databases (3)
- Developer Tools (7)
- Integration (3)
- Internet of Things (1)
- Security and Identity (2)
- Starter Kits (2)
- Web and Mobile (2)
- Web and Application (6)

Compute

Containers and VMs

- Container Registry  
Lite • IBM • 24/7-enabled  
Securely store container images and monitor their vulnerabilities in a private registry.

Cloud Foundry

- Liberty for Java™  
Lite • IBM  
Develop, deploy, and scale Java web apps with ease on IBM Cloud Foundry. IBM WebSphere Liberty Profile is a highly...
- SDK for Node.js™  
Lite • IBM  
Develop, deploy, and scale server-side JavaScript apps with ease on IBM Cloud Foundry. The IBM SDK for Node.js™ provid...
- ASP.NET Core  
Lite • IBM  
Develop, deploy, and scale ASP.NET Core web apps with ease on IBM Cloud Foundry.
- Runtime for Swift  
Lite • IBM  
A Kluge based server application that you can use as a starting point to get your own Kluge application up and running quickly o...
- Go  
Lite • Community  
Develop, deploy, and scale Go web apps with ease on IBM Cloud Foundry.
- PHP  
Lite • Community  
Develop, deploy, and scale PHP web apps with ease on IBM Cloud Foundry.
- Python  
Lite • Community  
Develop, deploy, and scale Python web apps with ease on IBM Cloud Foundry.
- Ruby  
Lite • Community  
Develop, deploy, and scale Ruby web apps with ease on IBM Cloud Foundry.
- Tomcat  
Lite • Community  
Develop, deploy, and scale Tomcat web apps with ease on IBM Cloud Foundry.

Containers

FEEDBACK

## Click the Internet of Things Platform card

IBM Cloud Search resources and offerings...

Try the best of the Catalog for free with no time restrictions with Lite plans.  
The Lite filter is enabled. Remove the filter to see the full Catalog.

Catalog

label:lite Filter

All Categories (57)

- VPC Infrastructure
- Compute (10)
- Containers (1)
- Networking
- Storage (1)
- AI (15)
- Analytics (4)
- Databases (3)
- Developer Tools (7)
- Integration (3)
- Internet of Things (1) >
- Security and Identity (2)
- Starter Kits (2)
- Web and Mobile (2)
- Web and Application (6)

Internet of Things

- Internet of Things Platform  
Lite • IBM  
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...

FEEDBACK



Accept the defaults or change the field values and scroll down

IBM Cloud Search resources and offerings... Catalog Docs Support Manage IBM IoT DeviceTest's Account

← View all **Internet of Things Platform** Lite • IBM

This service is the hub for IBM Watson IoT and lets you communicate with and consume data from connected devices and gateways. Use the built-in web console dashboards to monitor your IoT data and analyze it in real time. Then, enhance and customize your IBM Watson IoT Platform experience by building and connecting your own apps by using messaging and REST APIs.

[View Docs](#) [Terms](#)

AUTHOR IBM  
PUBLISHED 05/24/2019  
TYPE Service  
LOCATION Frankfurt, London, Dallas

Service name: Internet of Things Platform-sw

Choose a region/location to deploy in: Dallas Choose an organization: ibmiotdevice@gmail.com Choose a space: dev

Tags: Examples: env:dev, version:1

Features

- Connect**  
Quickly and securely register and connect your devices and gateways. You can find simple step-by-step instructions for connecting popular devices, sensors, and gateways in our recipes site.
- Analyze in real time**  
Monitor your real-time device data through rules, analytics, and dashboards. Define rules to monitor conditions and trigger automatic actions that include alerts, email, IFTTT, Node-RED flows, and external services to react quickly to critical changes.
- Information Management**  
Control what happens to the data that is received from your connected devices. Manage data storage, configure data transformation actions, and integrate with other data services and device platforms.
- Risk and Security management**  
Our secure-by-design control capabilities protect the integrity of your IoT solution through secure connectivity and access control for users and applications. Extend the base security with threat intelligence for IoT to visualize critical risks and automate operational responses with policy-driven mitigation actions.

Images  
Images can be screen captures, slides, or videos. Click an image to view the details.

Need Help? [Contact IBM Cloud Support](#)

Add to estimate Create

Select the pricing plan for your needs. Default is Lite which will be good for quick start and testing.

Click Create

IBM Cloud Search resources and offerings... Catalog Docs Support Manage IBM IoT DeviceTest's Account

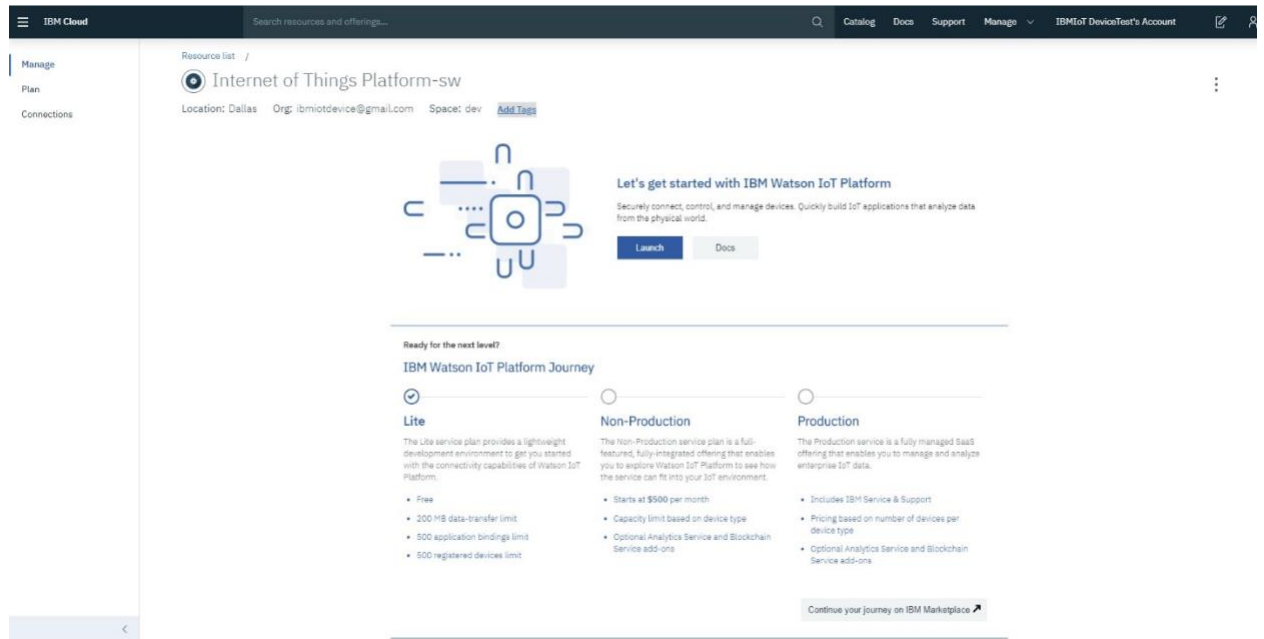
Images  
Images can be screen captures, slides, or videos. Click an image to view the details.

Pricing Plans Monthly prices shown are for country or region: [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. Lite plan services are deleted after 30 days of inactivity.		
Watson IoT Platform Connection and Analytics Service Capacity Level 1	IBM Watson IoT Platform (Connection Service and Analytics Service) is a ready-to-run, pre-integrated SaaS managed service IoT platform with capabilities in connectivity, data management and advanced analytics. Capacity Level 1 includes 5,000 sensor devices and 1 million analytics events	\$2,500.00 USD/Plan
Watson IoT Platform Connection and Analytics Service Capacity Level 2	IBM Watson IoT Platform (Connection Service and Analytics Service) is a ready-to-run, pre-integrated SaaS managed service IoT platform with capabilities in connectivity, data management and advanced analytics. Capacity Level 2 includes 28,000 sensor devices and 6 million analytics events	\$8,000.00 USD/Plan

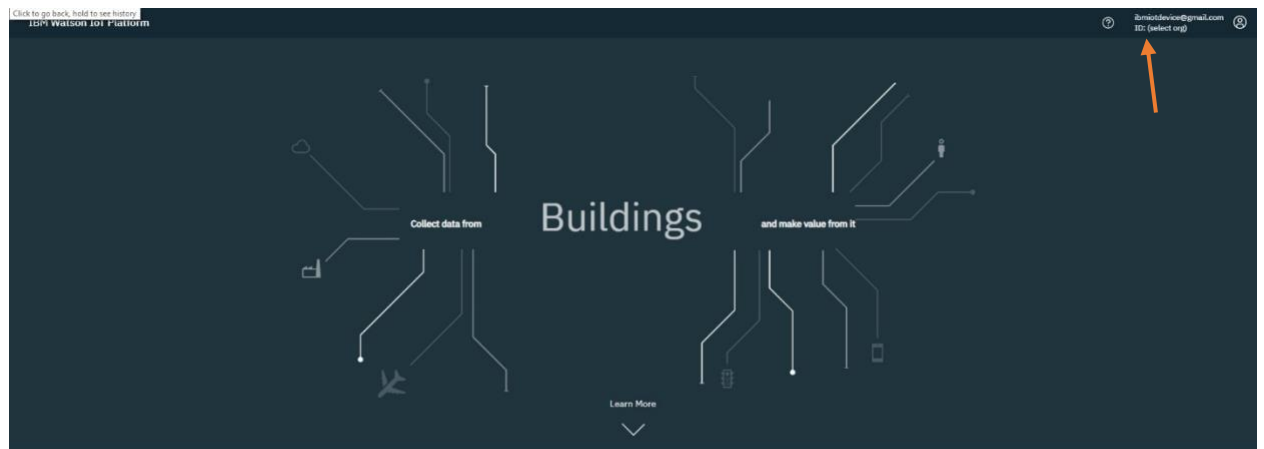
Need Help? [Contact IBM Cloud Support](#)

Add to estimate Create



Go back to IBM Watson IoT Platform and Sign in if you are not already logged in  
<https://internetofthings.ibmcloud.com/>  
or you can click Launch from the IBM Cloud page

Click select org



## Powerful web dashboard

Flexible, scalable and easy to use

We provide a clean and simple UI where you can simply and easily add and manage your devices, control access to your IoT service, and monitor your usage. See at a glance the things you are interested in.

We provide a clean and simple UI where you can simply and easily add and manage your devices, control access to your IoT service, and monitor your usage. See at a glance the things you are interested in.

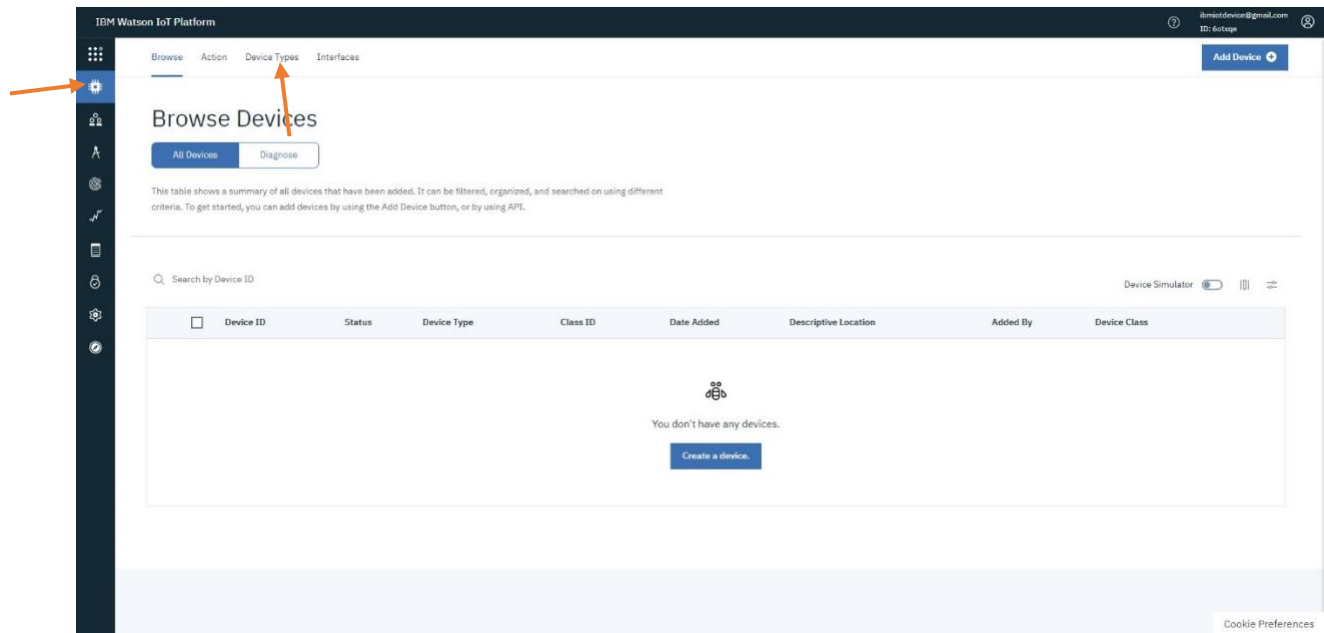


## VI. Add a new Device Type

For information on device types see the following -

[https://www.ibm.com/support/knowledgecenter/SSQP8H/iot/platform/reference/register/device\\_model.html](https://www.ibm.com/support/knowledgecenter/SSQP8H/iot/platform/reference/register/device_model.html)

If not selected, click the Devices option and then click Device Types tab





## Click Add Device Type

IBM Watson IoT Platform


Browse Action **Device Types** Interfaces

**Add Device Type**

### Device Types

This table lists all device types that are defined. You can filter the list and search for the name and description. You can modify and configure existing device types and add new device types.

Q Type the name to search f...

<input type="checkbox"/>	Name	Description	Number of Devices	Class ID	Date Added
 <p>You don't have any device types created.</p> <p><b>Add Device Type</b></p>					

Cookie Preferences

## Select – Type - Device, enter a name and description. Click Next

IBM Watson IoT Platform

Browse Action **Device Types** Interfaces

### Add Type

Identity Device Information

Device types group devices that have similar characteristics, such as model number, firmware version, or location. Give the device type a unique name and a description that identifies characteristics that are shared by devices of this type.

Type **Device** Or **Gateway**

Name

The device type name is used to identify the device type uniquely and uses a restricted set of characters to make it suitable for API use.

Description

**Cancel** **Next**

### Device Types

This table lists all device types that are defined. You can filter the list and search for the name and description. You can modify and configure existing device types and add new device types.

Q Type the name to search f...

Cookie Preferences



(Optional) Populate fields for a template for like devices of this type.  
Click Finish

IBM Watson IoT Platform

ibmclouddevice@gmail.com  
IoT Setups

Browse Action **Device Types** Interfaces

### Add Type

Identity Device Information

These attributes will be used as a template for new devices that are assigned this device type

[Edit Metadata](#)

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"/>

[Back](#) [Finish](#)

### Device Types

This table lists all device types that are defined. You can filter the list and search for the name and description. You can modify and configure existing device types and add new device types.

🔍 Type the name to search for...

<input type="checkbox"/>	Name	Description	Number of Devices	Class ID	Date Added
--------------------------	------	-------------	-------------------	----------	------------

[Cookie Preferences](#)

Device Type has been created.





## VII. Add a new Device

Now you register your device in IBM Watson IoT Platform. For information on devices see the following -

[https://www.ibm.com/support/knowledgecenter/SSQP8H/iot/platform/reference/register/device\\_model.html](https://www.ibm.com/support/knowledgecenter/SSQP8H/iot/platform/reference/register/device_model.html)

Click Register Devices

IBM Watson IoT Platform

Browse Action **Device Types** Interfaces

You added the new device type: TestDevice1

Register Device Advanced Flow

Optional

**Register Devices, Define Interfaces**

Now that you added a device type, you can register and connect devices for this type.

Register Devices

Cancel Next

Device Types

This table lists all device types that are defined. You can filter the list and search for the name and description. You can modify and configure existing device types and add new device types.

Cookie Preferences



The newly created Device Type is the Device Type selected.

Add a Device ID, this can be anything to identify this device, and click Next

The screenshot shows the IBM Watson IoT Platform interface. At the top, the header bar displays 'IBM Watson IoT Platform' and a user profile for 'ibmclouddevice@gmail.com' with ID '60b9qe'. Below the header, a navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains various icons for device management. The main content area features a modal dialog titled 'Add Device' with a close button (X) in the top right corner. Inside the dialog, a progress bar shows four steps: 'Identity' (selected), 'Device Information', 'Security', and 'Summary'. Below the progress bar, a text prompt reads: 'Select a device type for the device that you are adding and give the device a unique ID.' There are two input fields: 'Device Type' with the value 'DeviceTypeTest' and 'Device ID' with the placeholder 'Enter Device ID'. At the bottom right of the dialog are 'Cancel' and 'Next' buttons. Below the dialog, the 'Browse Devices' section is visible, featuring 'All Devices' and 'Diagnose' buttons, and a table of added devices. The footer includes a search bar 'Search by Device ID', a 'Device Simulator' link, and a 'Cookie Preferences' link.



(Optional) Populate fields for the device.  
Click Next

IBM Watson IoT Platform

?

ibmclouddevice@gmail.com

ID: 60429e

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

Enter Serial Number

Model

Enter Model

Description

Enter Description

Hardware Version

Enter Hardware Version

Manufacturer

Enter Manufacturer

Device Class

Enter Device Class

Firmware Version

Enter Firmware Version

Descriptive Location

Enter Descriptive Location

Add Metadata

Back

Next

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.

Cookie Preferences



Click Next, this will auto-generate an authentication token

or

If you want to specify a token value, enter an authentication token (make note of token value used).

Click Next

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The 'Security' step is active, showing two options for selecting a device authentication token: 'Auto-generated authentication token (default)' and 'Self-provided authentication token'. The 'Auto-generated' option is selected. Below the options, there is a text input field for 'Authentication token' with a placeholder 'Enter an optional token' and a '@' icon. A note states: 'Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored.' Another note says: 'Authentication token are encrypted before we store them.' At the bottom right of the wizard, there are 'Back' and 'Next' buttons. Below the wizard, the 'Browse Devices' section is visible with 'All Devices' and 'Diagnose' buttons.

Review summary information and click Finish

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform, now at the 'Summary' step. The 'Summary' step is active, showing a summary of the device information: 'Device Type: DeviceTypeTest', 'Device ID: TestDevice', and 'Security Token: To be generated'. There is a 'View Metadata' button. At the bottom right of the wizard, there are 'Back' and 'Finish' buttons. Below the wizard, the 'Browse Devices' section is visible with 'All Devices' and 'Diagnose' buttons. A note at the bottom 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.'



Make note of the Device Credentials, specifically the Authentication Token. This value is not recoverable.

**Important Note:** The authentication token value is not visible in the device details once created. This value is not recoverable. If you do not have the authentication token, you will need to register the device again. Note the value before leaving the screen.

IBM Watson IoT Platform

Device Drilldown - TestDevice

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	6otbqe
Device Type	DeviceTypeTest
Device ID	TestDevice
Authentication Method	use-token-auth
Authentication Token	86gCEvPj*ucPb1z

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.

Device ID	TestDevice
Device Type	DeviceTypeTest
Date Added	2019-08-13T16:50:34.408Z
Added By	ibmiotdevice@gmail.com

Cookie Preferences

Click Devices option and see that the device has been added.  
Device will show as Disconnected.

IBM Watson IoT Platform

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

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	Added By	Device Class
TestDevice	Disconnected	DeviceTypeTest	Device	Aug 13, 2019 12:50 PM		ibmiotdevice@gmail.com	

Items per page 50 | 1-1 of 1 items

1 of 1 pages

Cookie Preferences



## VIII. Generate API Keys (Optional)

If you will be making an API connection from the device to IBM Watson IoT Platform you can generate an API key to use.

Note: an MQTT connection does not require an API key.

Click Apps option

Click generate API Key

IBM Watson IoT Platform

Generate API Key

### Browse API Keys

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](#).

Key	Description	Role	Expires
a-6otxqe-nyk227n8	API Key for the device simulator	Standard Application	-

1 result

Cookie Preferences



Add description and set expiration date if you want key to expire.  
Click Next

IBM Watson IoT Platform

Generate API Key

Information Permissions

Description

API Key Expires ☐ Off ☐ On

Choose date

Cancel Next

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](#).

Key	Description	Role	Expires
1 result			
a-60tqge-ryj227r8	API Key for the device simulator	Standard Application	-

Cookie Preferences

Select the appropriate role and click Generate Key

IBM Watson IoT Platform

Generate API Key

Information Permissions

The application will have access for the following role:

Role Visualization Application

For more information about roles, see [User, application, and gateway roles](#).

Back Generate 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](#).

Key	Description	Role	Expires
1 result			
a-60tqge-ryj227r8	API Key for the device simulator	Standard Application	-

Cookie Preferences



Make note of the Authentication token. This information is not recoverable.

**Important Note:** The authentication token value is not visible in the API details once created. This value is not recoverable. If you do not have the authentication token, you will need to create the API key again. Note the value before leaving the screen.

Click Close

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 Information	
API Key	a-60bqze-6mngj0hkkd	Description	TestDevice API Key
Authentication Token	UhcmlD8Cu(n)XxjXeD	Role	Standard Application
		Expires	Never

Make a note of the generated authentication token. Lost authentication tokens cannot be recovered. If you lose the token, you must re-register the API to generate a new token.

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

### Browse API Keys

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](#).

Key	Description	Role	Expires
2 results			

Cookie Preferences

The device is now created in IBM Watson IoT Platform. The next step is to configure your hardware device and connect it to this configured IBM Watson IoT Platform environment. Please see part 2 - [Connect Device to IBM Watson IoT Platform](#) for device connection information.