

Team ID	PNT2022TMID40462
Project Name	SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITIAN CITIES

Create IBM Watson IoT Platform And 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.

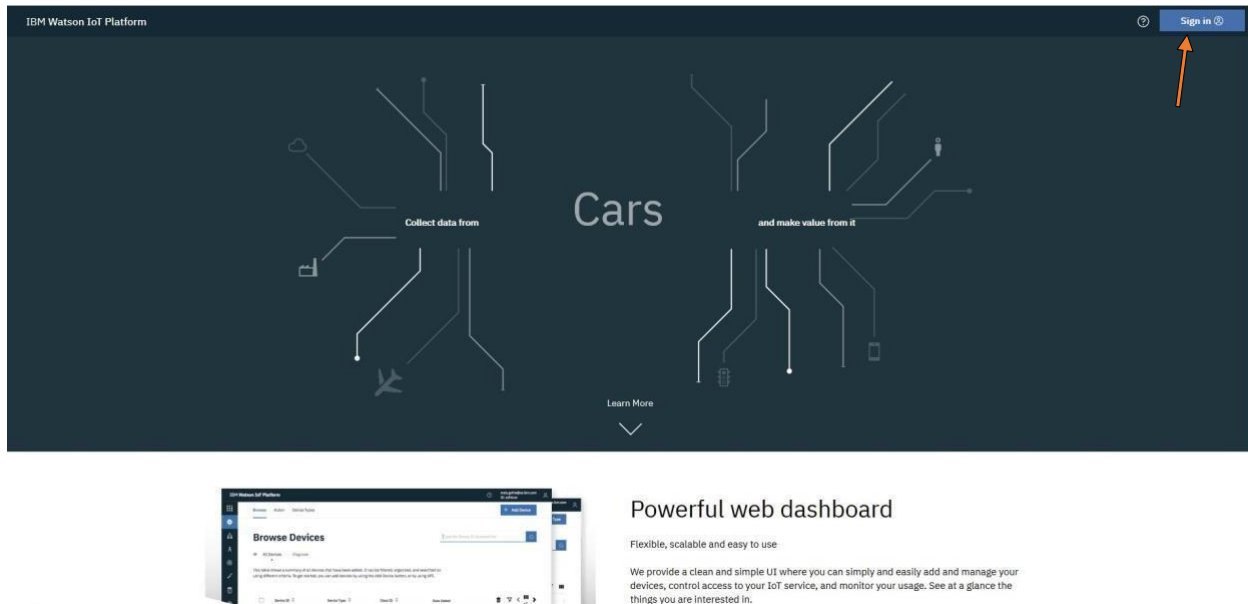
This is part two of a two-part series. This document is a simple, easy to follow process to connect a device to IBM Watson IoT Platform. It will go through connecting via an MQTT connection.

I. Login to IBM Watson IoT Platform to Verify Connection

STEP1:

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

Click Sign in



STEP2:

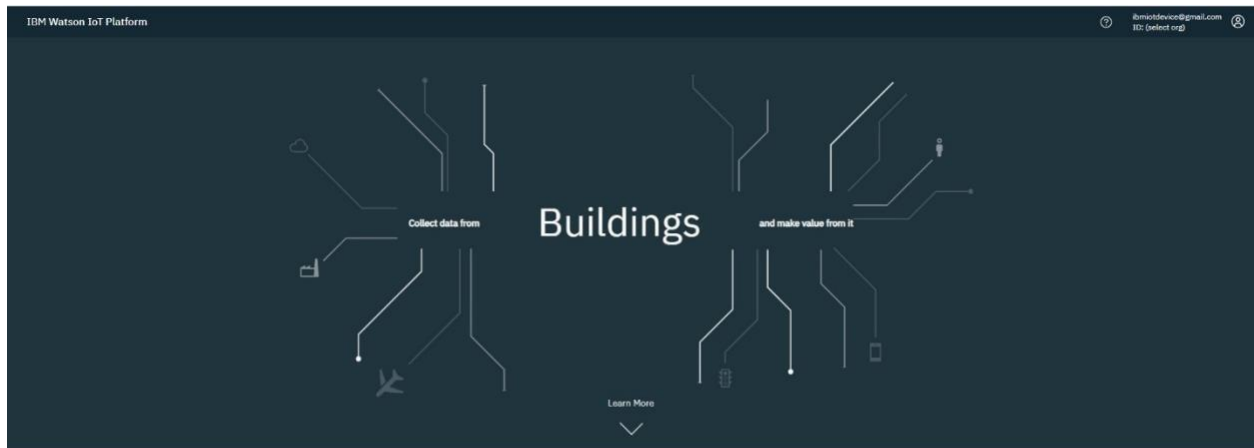
Enter an IBMid and click Continue (Click Remember Me if you want)

IBM

The screenshot shows the IBM login form. The form is titled "Log in to IBM". It has a field for "IBMid" with a "Forgot IBMid?" link next to it. Below the field is a checkbox labeled "Remember me" with a help icon. A blue "Continue" button is below the checkbox. At the bottom of the form, there's a link "Don't have an account? Create an IBMid". Below the form, there's a link "Need help? Contact the IBMid help desk". At the very bottom of the page, there's a footer with links: "Contact", "Privacy", "Terms of use", "Accessibility", and "Cookie preferences".

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

You are now logged into IBM Watson IoT Platform



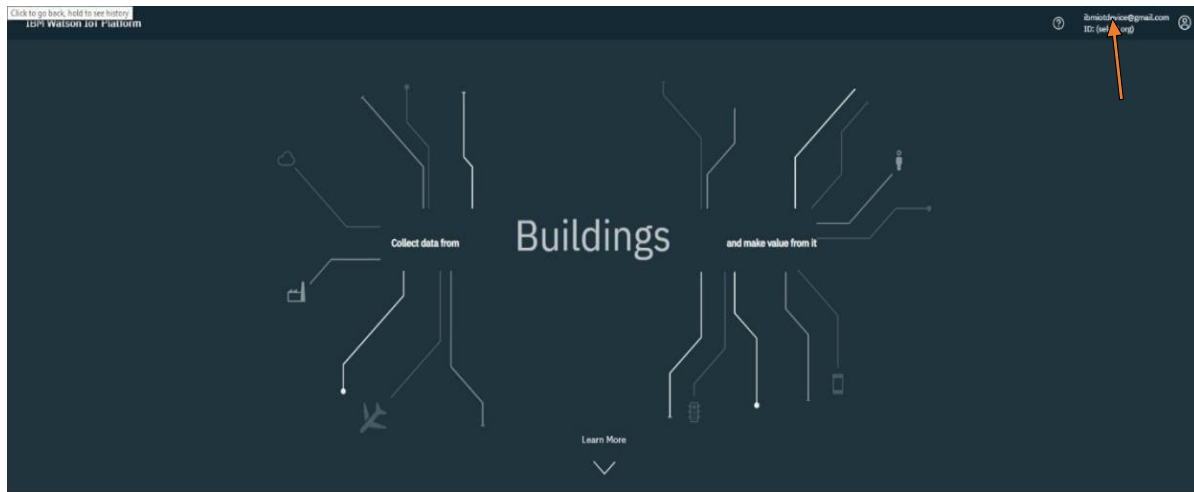
Powerful web dashboard

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.

STEP3:

Click select org

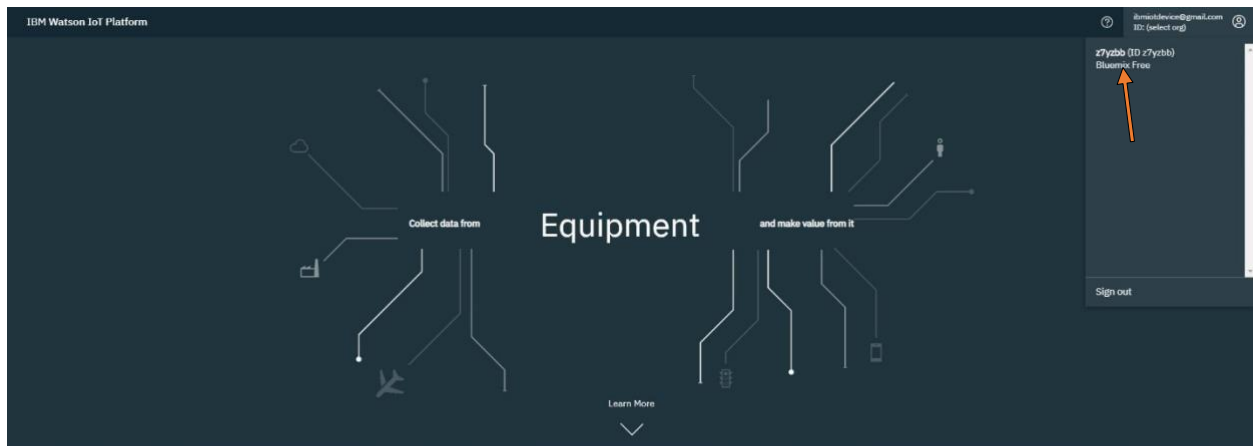


Powerful web dashboard

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Select the org



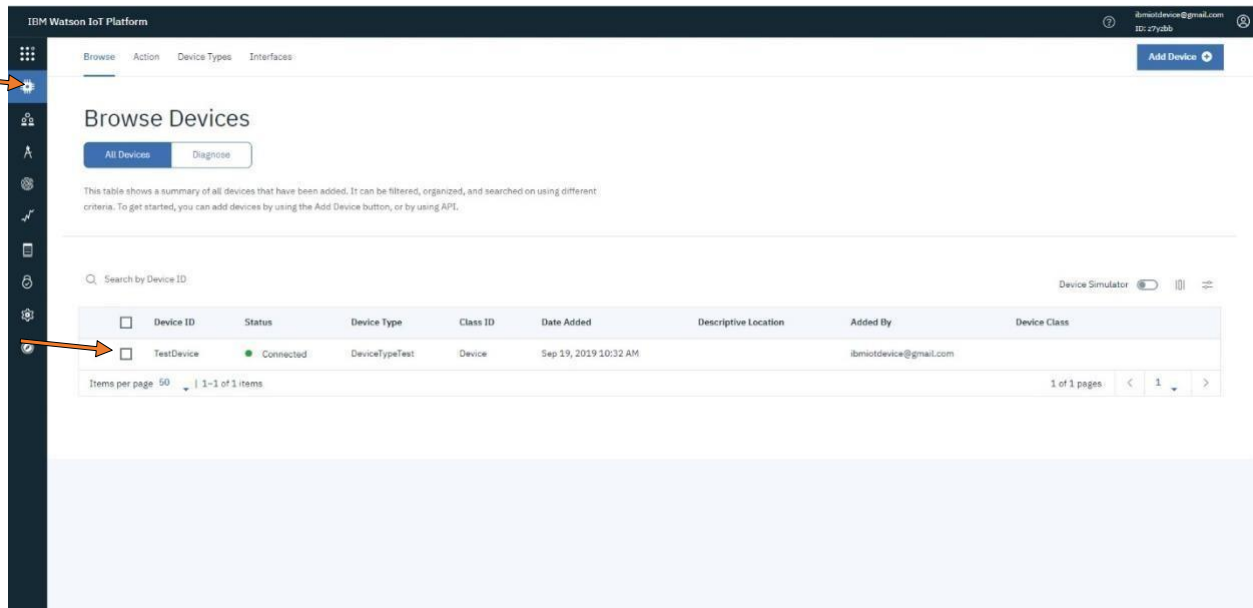
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STEP4:

Click Devices option and see that the device is Connected.



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

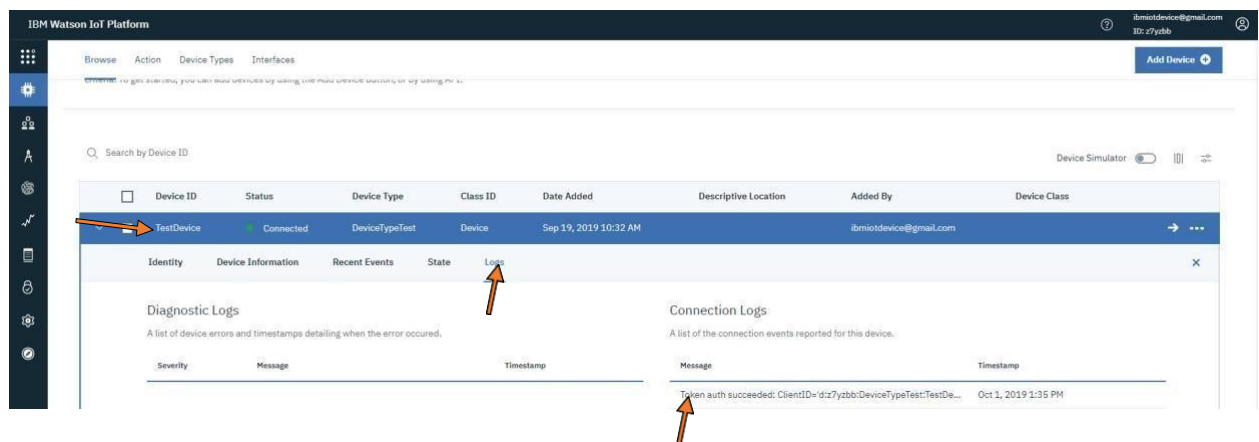
Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	Added By	Device Class
TestDevice	Connected	DeviceTypeTest	Device	Sep 19, 2019 10:32 AM		ibmiotdevice@gmail.com	

Items per page 50 | 1-1 of 1 items

1 of 1 pages

STEP 5:

Click the device and Logs and see that the connection was made



IBM Watson IoT Platform

Browse Action Device Types Interfaces

Add Device

Search by Device ID

Device Simulator

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	Added By	Device Class
TestDevice	Connected	DeviceTypeTest	Device	Sep 19, 2019 10:32 AM		ibmiotdevice@gmail.com	

Identity Device Information Recent Events State Logs

Diagnostic Logs

A list of device errors and timestamps detailing when the error occurred.

Severity	Message	Timestamp
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Connection Logs

A list of the connection events reported for this device.

Message	Timestamp
Token auth succeeded: ClientID=dz7yzbb:DeviceTypeTest:TestDe...	Oct 1, 2019 1:35 PM

STEP6:

Click Recent Events and see the data that was sent from the device to IBM WatsonIoT Platform .

The screenshot displays the IBM Watson IoT Platform interface. At the top, there's a navigation bar with 'Browse', 'Action', 'Device Types', and 'Interfaces'. Below this, a sidebar on the left contains various icons. The main content area shows a table of devices. The first device, 'TestDevice', is highlighted. Below the device list, a modal window is open, showing the 'Recent Events' tab. An orange arrow points to this tab. The modal contains a table of recent events, each with a timestamp, value, format, and last received time.

Event	Value	Format	Last Received
event	["d":{"temp":"46.2"}]	json	a few seconds ago
event	["d":{"temp":"46.2"}]	json	a few seconds ago
event	["d":{"temp":"46.2"}]	json	a few seconds ago
event	["d":{"temp":"46.2"}]	json	a few seconds ago
event	["d":{"temp":"45.6"}]	json	a few seconds ago