

TEAM ID	PNT2022TMID41669
TITLE	HAZARDOUS AREA MONITORING FOR INDUSTRIAL PLANT POWERED BY IOT

IBM Watson IoT Platform and Device

- It is 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.
- It can do some:

Device Management

- Using our device management service, you can perform device actions like rebooting or updating firmware, receive device diagnostics and metadata, or perform bulk device addition and removal.

Responsive, scalable connectivity

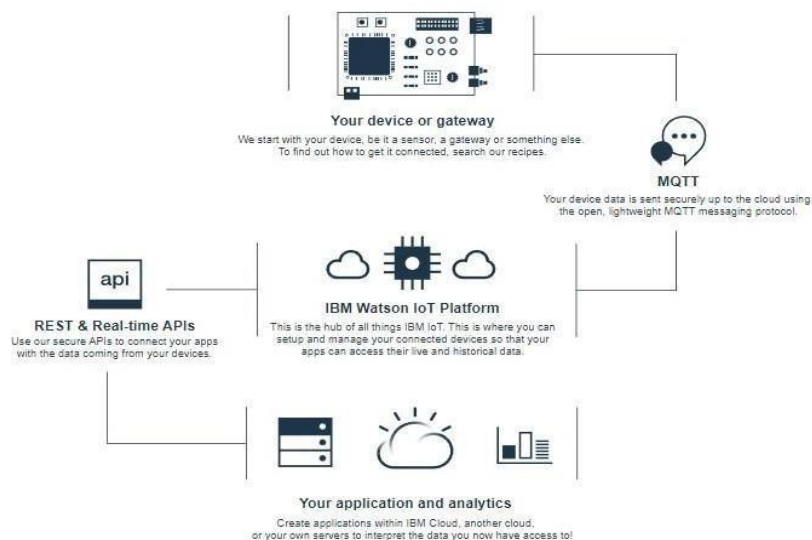
- We use the industry-standard MQTT protocol (OASIS ratified) to connect devices and applications. MQTT is designed for efficient exchange of data to and from devices in real-time.

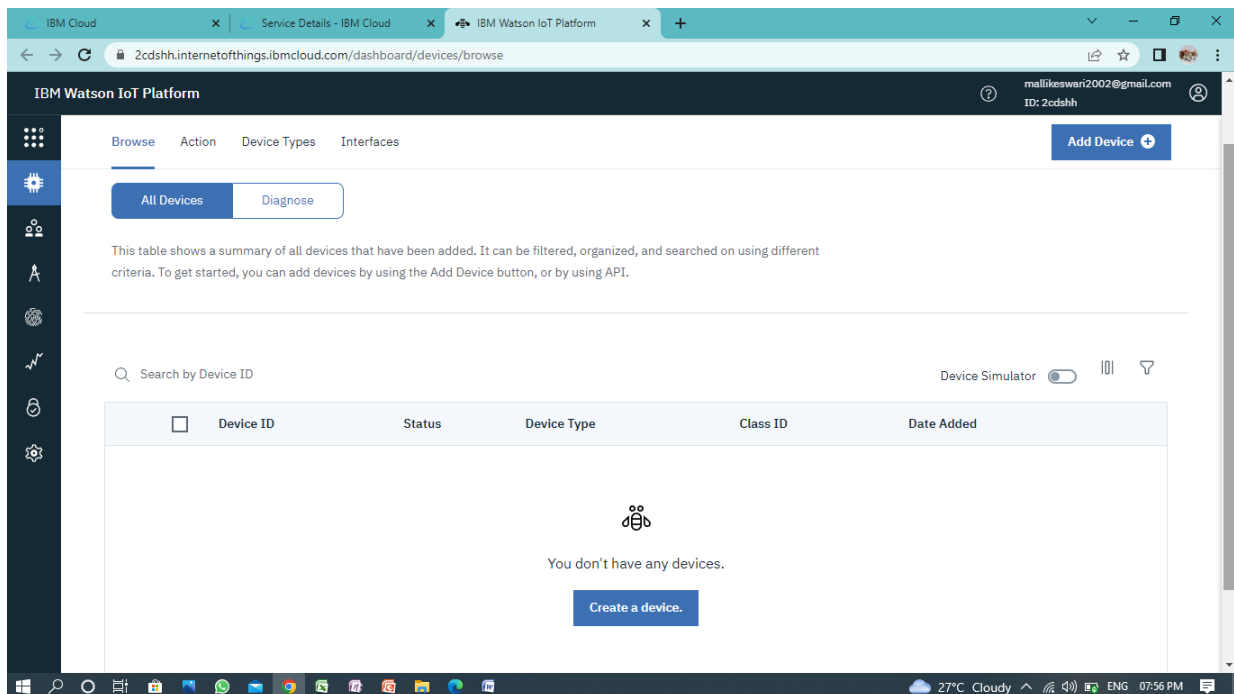
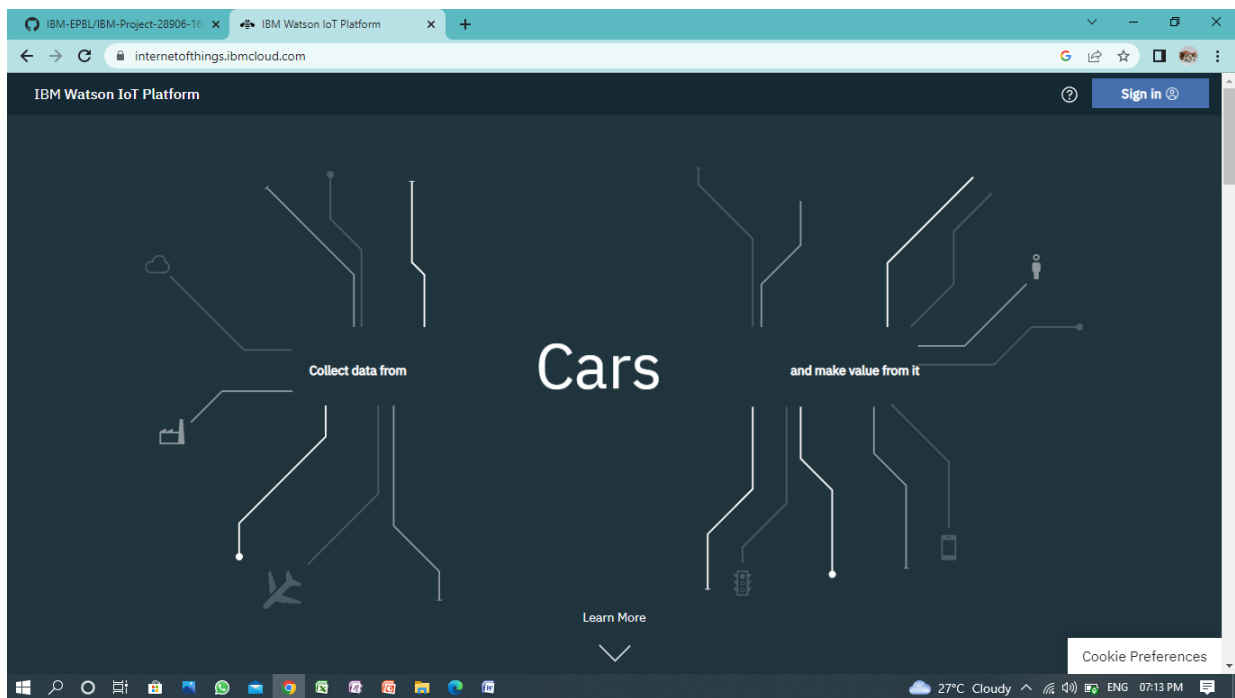
Secure Communication

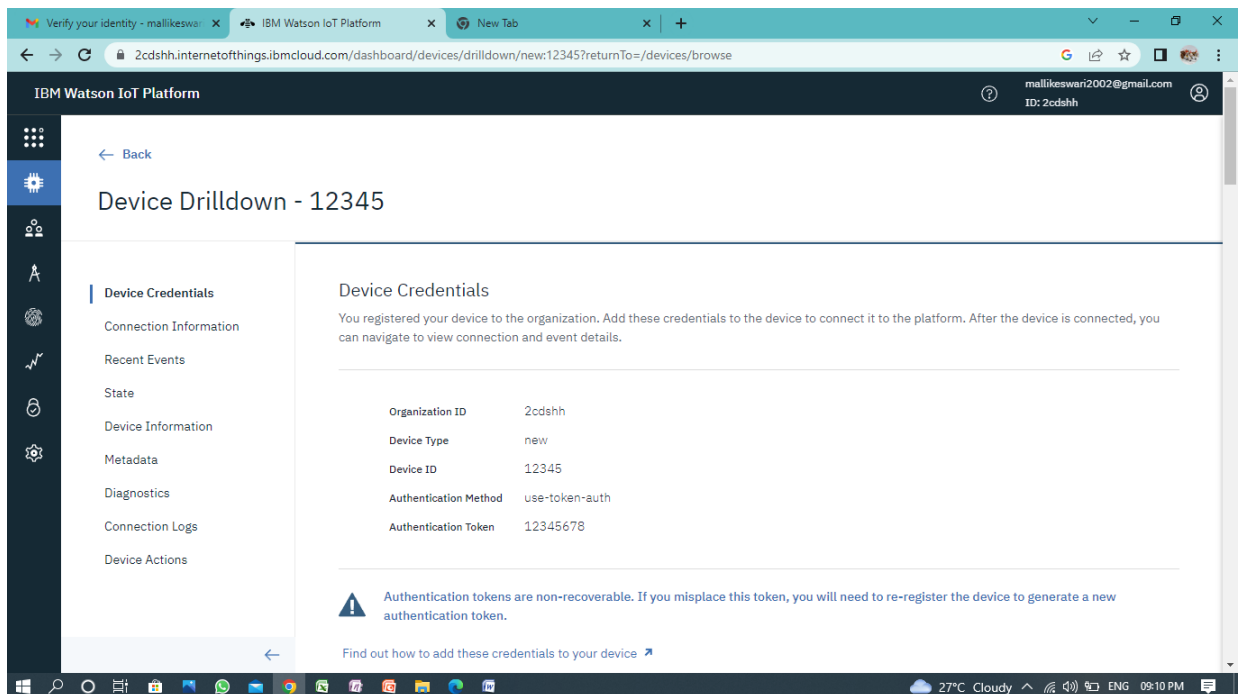
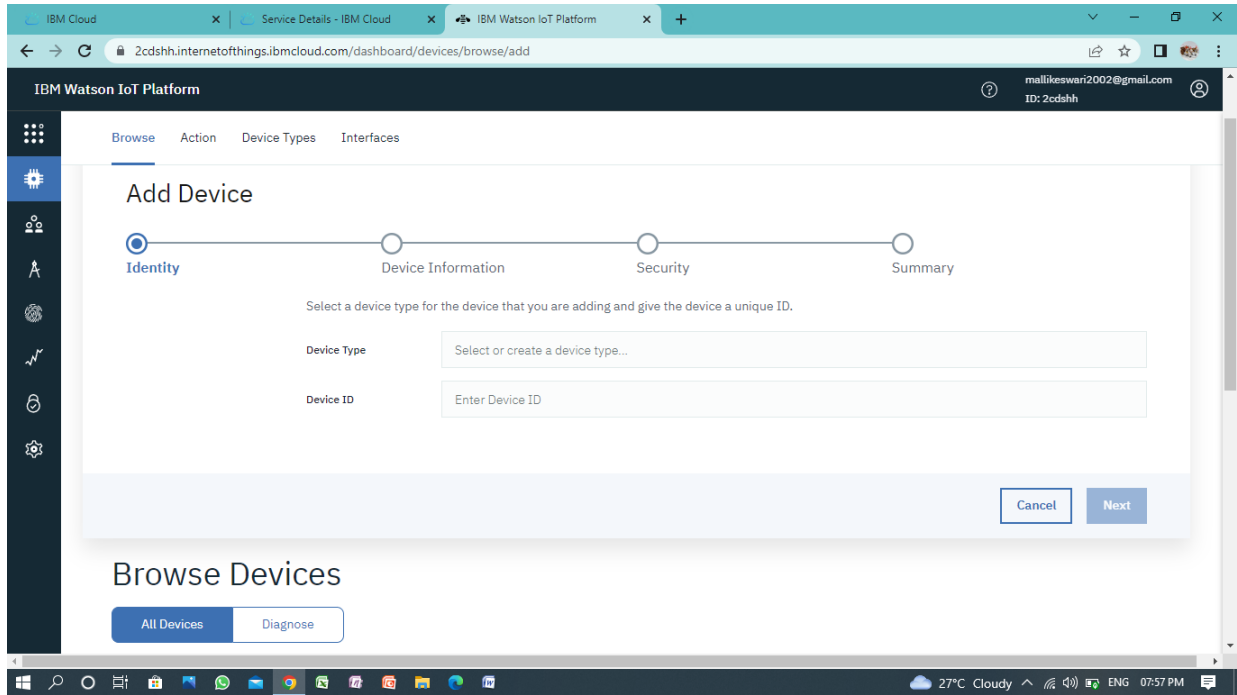
- Securely received data from and send commands to your devices. Do this using MQTT with TLS to secure all communication between your devices and our service.

Data lifecycle management

- As well as having access to real-time data coming from your devices, you can opt to store data for a period of your choice, allowing you to have access to historical and real-time data for your devices.







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2cdshh.internetofthings.ibmcloud.com/dashboard/devices/browse

IBM Watson IoT Platform

Browse Action Device Types Interfaces

Device ID	Status	Device Type
12345	Disconnected	new
new_1	Connected	new

Items per page 50 1-2 of 2 items

Device Type: new

Events 1

New event type +

Event type name event_1 Send

Schedule 1 Every Minute

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

```
0 {  
1 "randomtumber": random(0, 100)  
2 }  
3
```

Upload a CSV file

What functions can I apply?

Cancel Save

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IBM Watson IoT Platform

Browse Action Device Types Interfaces

malikeswari2002@gmail.com ID: 2cdshh

Add Device +

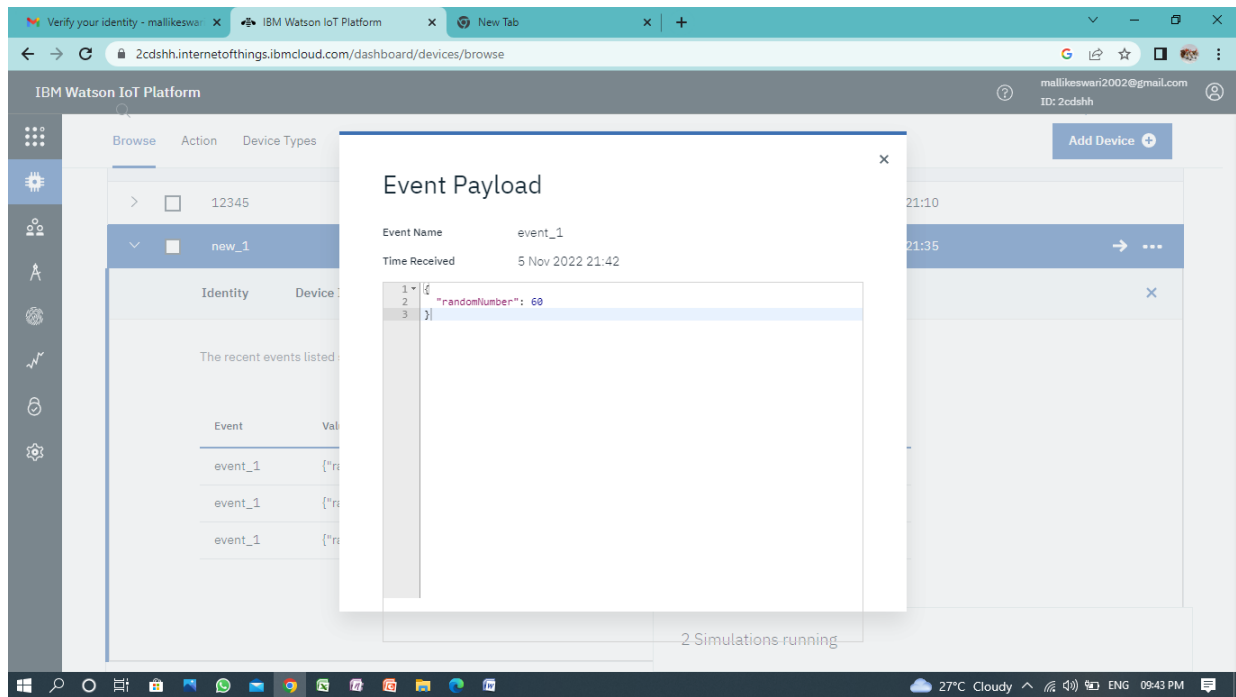
Device ID	Status	Device Type	Device	Date Added
12345	Disconnected	new	Device	5 Nov 2022 21:10
new_1	Connected	new	Device	5 Nov 2022 21:35

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":60}	json	a few seconds ago
event_1	{"randomNumber":4}	json	a minute ago
event_1	{"randomNumber":38}	json	2 minutes ago

2 Simulations running



Thus we created IBM Watson IoT Platform and Device.