

## PUBLISH THE DATA TO THE IBM CLOUD

DATE	14- NOVEMBER-2022
TEAM ID	PNT2022TMID53515
PROJECT NAME	SIGNS WITH SMART CONNECTIVITY FOR BETTER ROAD SAFETY

### REQUIREMENT:

To publish the data to IBM CLOUD from the python script has been showed below :

(we can see connected symbol which I have configured through my python code)

IBM Watson IoT Platform

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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

	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
>	12345	Connected	testdevicetype	Device	Nov 5, 2022 3:15 PM	
>	dhasarathi	Disconnected	ESP32	Device	Nov 6, 2022 10:41 PM	

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2 Simulations running



## DATA COLLECTED THROUGH THE IBM CLOUD :

The screenshot displays the IBM Watson IoT Platform interface. A modal window titled "Event Payload" is open, showing details for an event from device 12345 received on Nov 14, 2022 at 9:57 AM. The event payload is a JSON object with the following structure:

```
1 {
2   "temperature": 27.99,
3   "TemperatureRecommendation": "Temperature is ideal",
4   "humidity": 89,
5   "WeatherCondition": "Mist",
6   "SpeedRecommendation": "10KM/HR and switch on the headlight",
7   "DescriptionOfWeather": "Mist",
8   "visibility": 4000,
9   "RecommendationForVisibility": "visibility range is ideal for vehicles",
10  "WindSpeed": 2.05
11 }
```

In the background, the "Device Information" table lists recent events for device 12345:

Event	Value
12345	{\"temperature\": 27.99, \"TemperatureRecommendation\": \"Temperature is ideal\", \"humidity\": 89, \"WeatherCondition\": \"Mist\", \"SpeedRecommendation\": \"10KM/HR and switch on the headlight\", \"DescriptionOfWeather\": \"Mist\", \"visibility\": 4000, \"RecommendationForVisibility\": \"visibility range is ideal for vehicles\", \"WindSpeed\": 2.05}
12345	{\"temperature\": 27.99, \"TemperatureRecommendation\": \"Temperature is ideal\", \"humidity\": 89, \"WeatherCondition\": \"Mist\", \"SpeedRecommendation\": \"10KM/HR and switch on the headlight\", \"DescriptionOfWeather\": \"Mist\", \"visibility\": 4000, \"RecommendationForVisibility\": \"visibility range is ideal for vehicles\", \"WindSpeed\": 2.05}
12345	{\"temperature\": 27.99, \"TemperatureRecommendation\": \"Temperature is ideal\", \"humidity\": 89, \"WeatherCondition\": \"Mist\", \"SpeedRecommendation\": \"10KM/HR and switch on the headlight\", \"DescriptionOfWeather\": \"Mist\", \"visibility\": 4000, \"RecommendationForVisibility\": \"visibility range is ideal for vehicles\", \"WindSpeed\": 2.05}
12345	{\"CAUTION\": \"CR\", \"visibility\": 4000, \"RecommendationForVisibility\": \"visibility range is ideal for vehicles\", \"WindSpeed\": 2.05}
12345	{\"temperature\": 27.99, \"TemperatureRecommendation\": \"Temperature is ideal\", \"humidity\": 89, \"WeatherCondition\": \"Mist\", \"SpeedRecommendation\": \"10KM/HR and switch on the headlight\", \"DescriptionOfWeather\": \"Mist\", \"visibility\": 4000, \"RecommendationForVisibility\": \"visibility range is ideal for vehicles\", \"WindSpeed\": 2.05}

At the bottom right, it indicates "2 Simulations running".

This screenshot shows the same IBM Watson IoT Platform interface, but the "Event Payload" modal displays a different event from device 12345 received on Nov 14, 2022 at 9:58 AM. The event payload is a JSON object with the following structure:

```
1 {
2   \"CAUTION\": \"SCHOOL REGION MAINTAIN SPEED LIMIT BELOW 40KM/HR\"
3 }
```

The background "Device Information" table remains the same as in the previous screenshot. The status at the bottom right still shows "2 Simulations running".



