# SENDING DATA FROM RASPBERRY-PI TO IBM WATSON

Team ID	PNT2022TMID54370
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

## Aim:

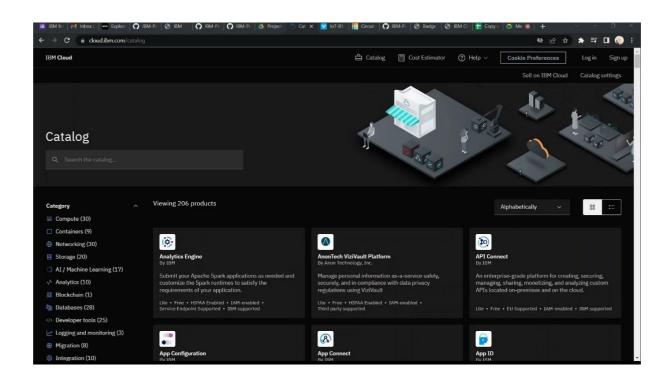
To send sensor data from the Raspberry Pi to IBM Watson. In our case, the data is from DHT sensors.

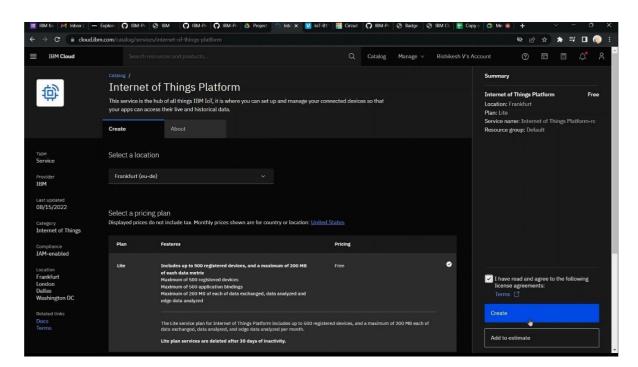
# Requirements:

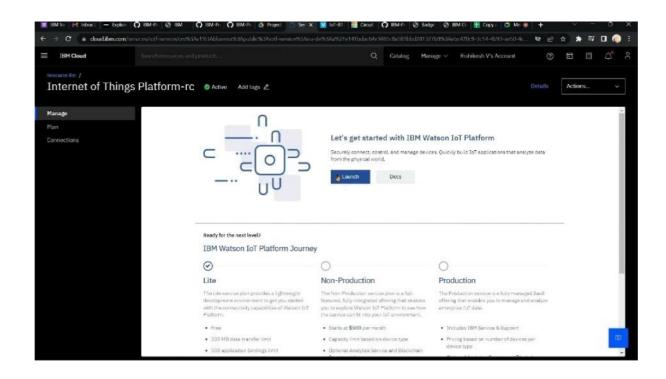
- Hardware Requirements
  - o RASPBERRY-PI (3B)(WITH ETHERNET CABLE OR WIFI CONNECTED)
  - o USB MOUSE
  - o USB KEYBOARD
  - o DHT-11 Sensor
  - o MONITOR
  - o RASPBERRY'S POWER SUPPLY
  - o VGA TO HDMI CABLE
  - o Connecting Wires
- Software Requirements
  - o IBM BLUEMIX ACCOUNT

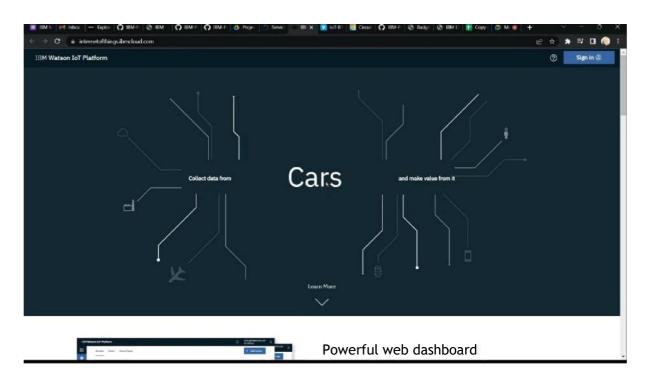
#### Procedure

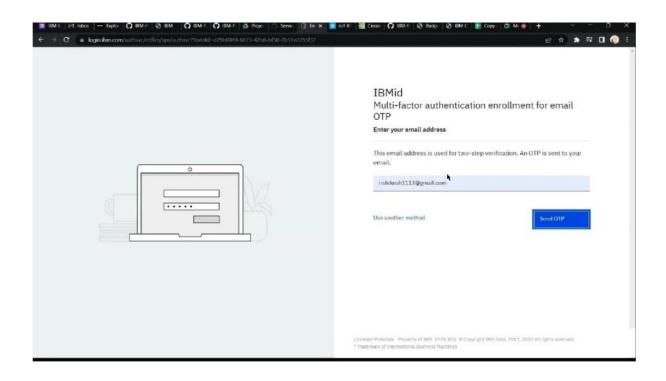
• Create an Device in IBM WATSON

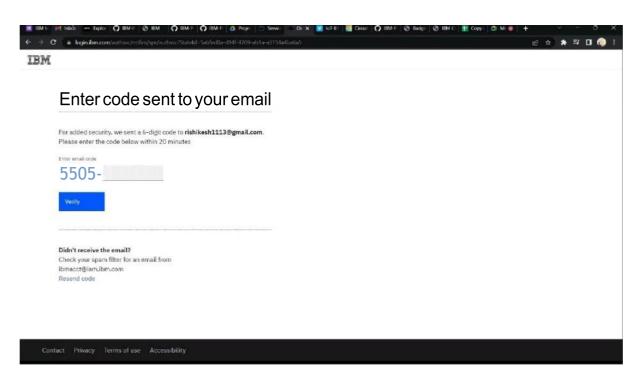


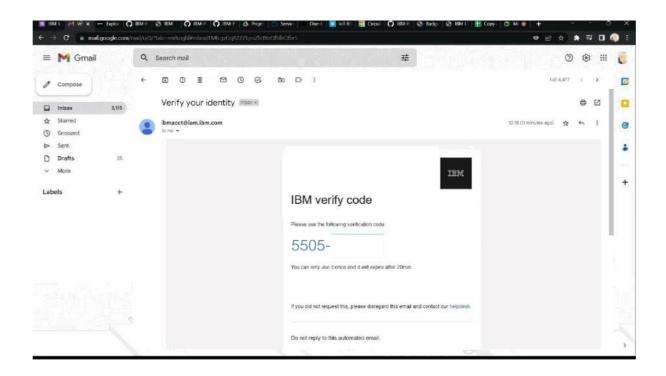


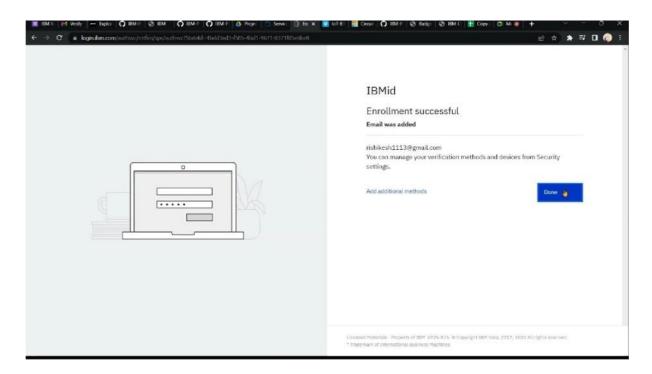






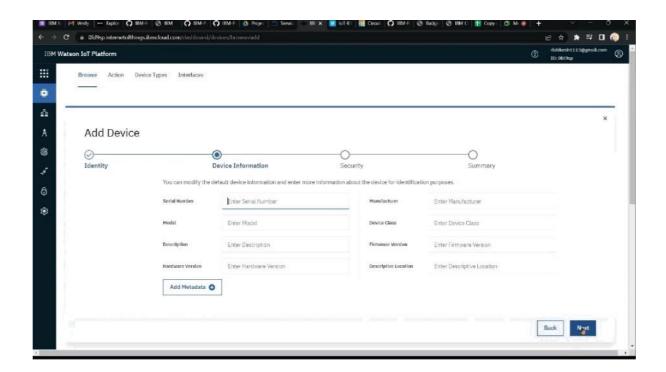








## **Browse Devices**



#### Add Device

Identity	Device Information	Security Summ	mary
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	(default)  Allow the service to generate an autt-eurication token lor you.	Provide your own authentication taken for this dence	
	cWaMers and ymbols. "the token s returned to you at" teend to gop , pgjqtyqpp	8 include hypher+s, 8888^ • and periods. 8 8 *8 "* creply d metersdictionary words, user narr+es. or other	
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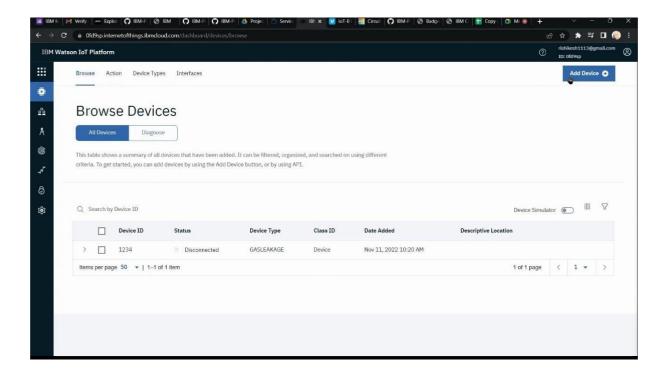
#### Device Driltdown - 1234

Device Credentials	Device Credentials
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Connection Information

You registered your device to the organ fzatfon. Add these credentia is to the device to connect 4t to the pWrrn. After the device is conred, you can navigate to view

Conn'ection Information



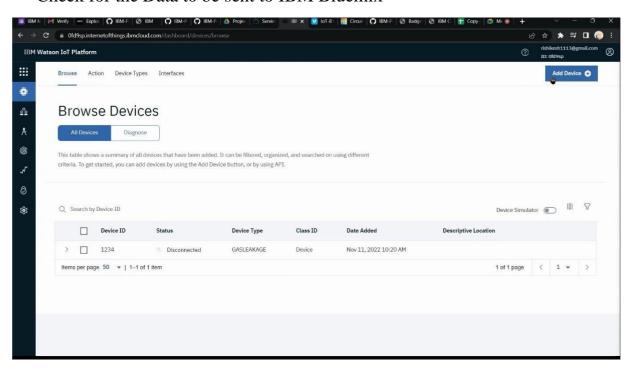
• Install necessary package on the Raspberry pi

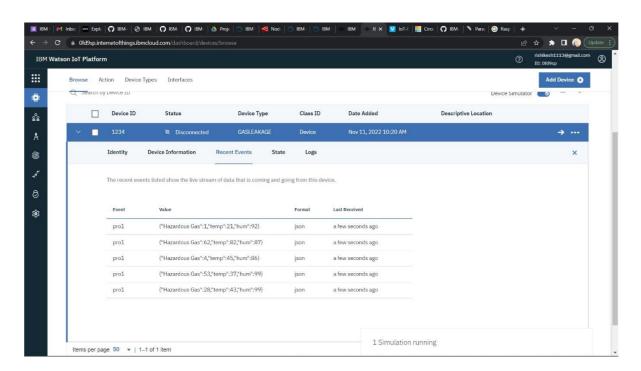
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Python 2.7.13 (default, Jan 19 2017, 26:48:08)
[GGC S.J.O 20170124] on linux2
Pyer Copyright, "credity or "license()" for more information.

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Pyer Copyright, "credity or "license()" for more information.

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2217.10-23 07:103-27,708 imbested device.client 1870 Connected successfully: digegtl4:mydevice:mydevice
Published Temperature = 26 C Humidity = 50 % to IBM Matson
Published Temperature = 26 C Humidity = 50 % to IBM Matson
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Published Temperature = 26 C Humidity = 50 % to IBM Matson
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SemsorCata Invalid
Published Temperature = 28 C Humidity = 50 % to IBM Matson
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• Check for the Data to be sent to IBM Bluemix





Create boards and cards for visualization

