DELIVERY OF SPRINT-2

(PUBLISHING THA DATA TO THE IBM CLOUD)

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Project Title	Gas Leakage Monitoring And Alerting System For Industries

The data has to be published to the IBM cloud. In the python script, the values for the gas, temperature, humidity and fire have been generated and published to IBM cloud platform. This is achieved by importing the required libraries in the python script and also specifying the organization, deviceType, deviceid, authMethod and authToken to integrate with the specific cloud account, so that the data will be published to IBM cloud platform. A threshold value has been fixed for each module and if any value exceeds this threshold value, then an alert message has been generated.

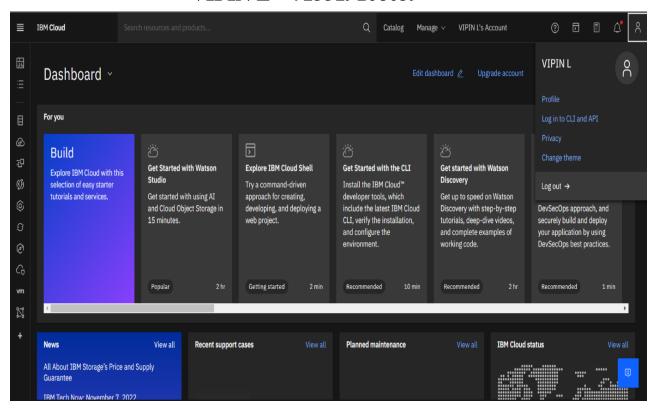
In order to send the data from the python script to the cloud , the cloud account has been created for each team members.

IBM Cloud Services:

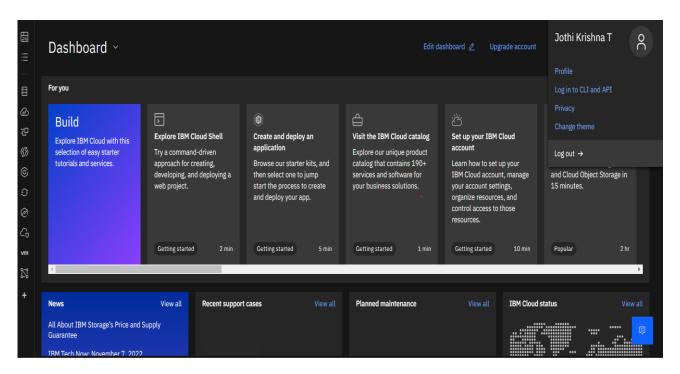
IBM is one of the large cloud computing providers on the planet. The "IBM Cloud" label is an umbrella category that encompasses its hardware, software and services for helping enterprises build private clouds. Protecting the company's data is critical. Cloud storage with automated backup is scalable, flexible and provides peace of mind.

IBM Cloud Accounts:

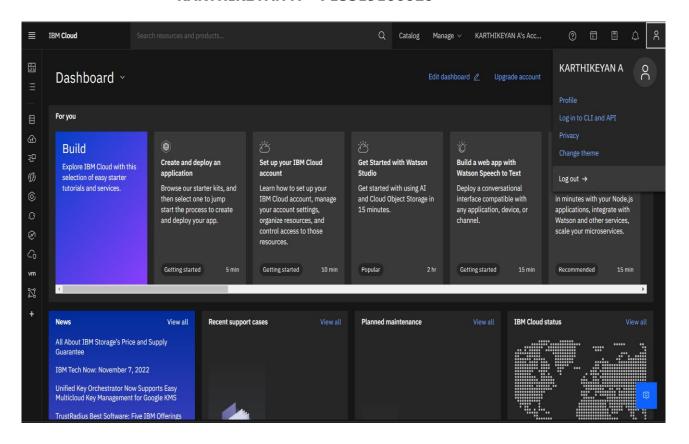
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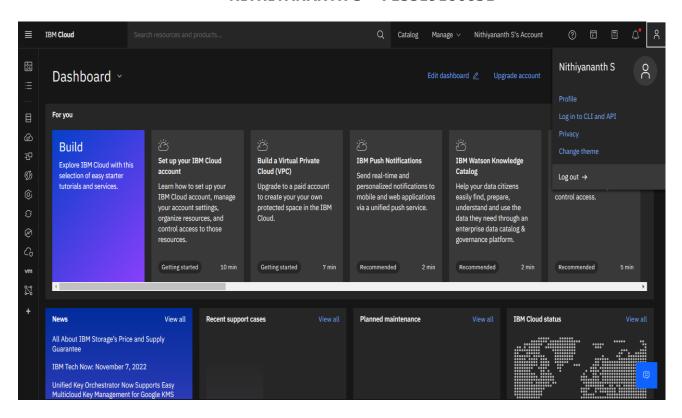
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Publish Data To The IBM Cloud

The output obtained from the python code is:

```
*"Hum': 30, 'Fire': 44}
published Gas 80
published Temp 89
published Hum 30
published Fire 44 {'Gas': 54, 'Temp': 82, 'Hum': 89, 'Fire': 60} published Gas 54 published Temp 82
published Hum 89
published Fire 60
{'Gas': 19, 'Temp': 50, 'Hum': 96, 'Fire': 8}
published Gas 19
published Temp 50
published Hum 96
published Fire 8 {'Gas': 47, 'Temp': 76, 'Hum': 14, 'Fire': 77}
published Gas 47
published Temp 76
published Hum 14
published Fire 77
{'Gas': 86, 'Te
published Gas
               'Temp': 89, 'Hum': 55, 'Fire': 63}
published Temp 89
published Hum 55
published Fire 63
{'Gas': 68, 'Temp': 46, 'Hum': 54, 'Fire': 29}
published Gas 68
published Temp 46
published Fire 29
                                                                                                                                                           Ln: 18 Col: 51
```

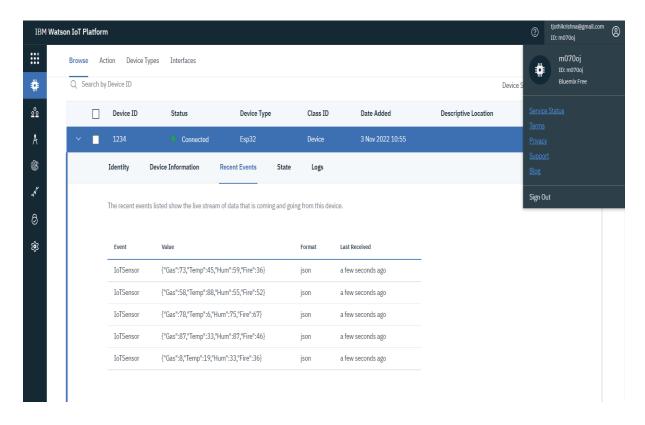
The data has been published to the IBM cloud. Thus in the python script, the values for the gas, temperature, humidity and fire have been generated and published to IBM cloud platform.

This is achieved by importing the required libraries in the python script and also specifying the organization, deviceType, deviceid, authMethod and authToken to integrate with the specific cloud account, so that the data will be published to IBM cloud platform.

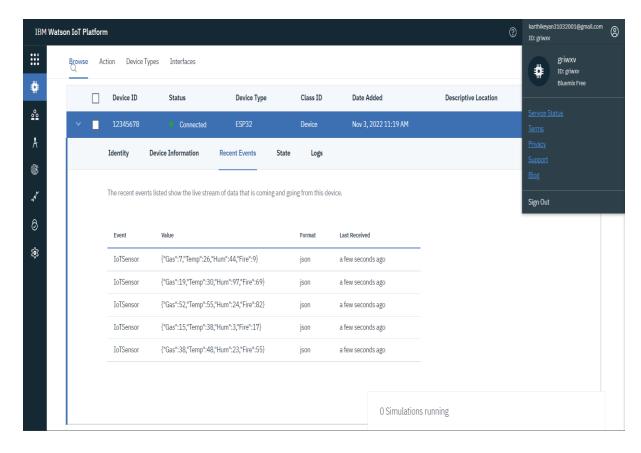
IBM Watson IoT Platform (2) **:::** Browse Action Device Types Interfaces # Bluemix Free # Q Search by Device ID <u>°°</u> Device ID Status Device Type Class ID Date Added Descriptive Location 3 Nov 2022 10:59 Connected Device 8 Identity Device Information Recent Events Logs Sign Out The recent events listed show the live stream of data that is coming and going from this device. Ø IoTSensor {"Gas":10,"Temp":89,"Hum":59,"Fire":27} json a few seconds ago InTSensor {"Gas":28,"Temp":8,"Hum":31,"Fire":77} json IoTSensor {"Gas":45,"Temp":88,"Hum":15,"Fire":56} {"Gas":58,"Temp":31,"Hum":4,"Fire":24} json a few seconds ago IoTSensor {"Gas":17,"Temp":62,"Hum":49,"Fire":98} 0 Simulations running

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