

FINAL DELIVERABLES

PYTHON CODE:

```
import json
import wiotp.sdk.device
import time
myConfig={
    "identity":{
        "orgId": "90t0p8",
        "typeId": "ChildSafetyGadget",
        "deviceId": "PNT2022TMID00392"
    },
    "auth": {
        "token": "2zdfvRDye5(b1qFQpb"
    }
}
client = wiotp.sdk.device.DeviceClient (config=myConfig, logHandlers=None)
client.connect()

while True:
    name= "Smartbridge"
    latitude = 17.4219272
    longitude =78.5400783
    myData = {'name':name, 'lat':latitude, 'lon': longitude}
    client.publishEvent (eventId="status", msgFormat="json", data=myData,
qos=0, onPublish=None)
    print ("Data published to IBM IoT platfrom: ",myData)
    time.sleep(5)
```

client.disconnect()

```
trailcode.py - C:\Users\sandh\Downloads\ibm\python code\trailcode.py (3.7.4)
File Edit Format Run Options Window Help

import json
import wiotp.sdk.device
import time
myConfig={
    "identity":{
        "orgId": "90t0p8",
        "typeId": "ChildSafetyGadget",
        "deviceId": "PNT2022TMID00392"
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    print ("Data published to IBM IoT platform: ",myData)
    time.sleep(5)

client.disconnect()
```

OUTPUT:

```
*Python 3.7.4 Shell*
File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 20:34:20) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\sandh\Downloads\ibm\python code\trailcode.py =====
2022-11-11 22:55:04.012 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:90t0p8:ChildSafetyGadget:P
NT2022TMID00392
Data published to IBM IoT platfrom: {'name': 'Smartbridge', 'lat': 17.4219272, 'lon': 78.5400783}
Data published to IBM IoT platfrom: {'name': 'Smartbridge', 'lat': 17.4219272, 'lon': 78.5400783}
Data published to IBM IoT platfrom: {'name': 'Smartbridge', 'lat': 17.4219272, 'lon': 78.5400783}
Data published to IBM IoT platfrom: {'name': 'Smartbridge', 'lat': 17.4219272, 'lon': 78.5400783}
Data published to IBM IoT platfrom: {'name': 'Smartbridge', 'lat': 17.4219272, 'lon': 78.5400783}
Data published to IBM IoT platfrom: {'name': 'Smartbridge', 'lat': 17.4219272, 'lon': 78.5400783}
```

IBM WATSON IOT PLATFORM:

IBM Watson IoT Platform

868292 Disconnected Sandhiyasivakumar Device 8 Nov 2022 10:31 AM

PNT2022TMID00392 Connected ChildSafetyGadget Device 8 Nov 2022 11:58 AM

Identity Device Information Recent Events State Logs

Device ID PNT2022TMID00392

Device Type ChildSafetyGadget

Date Added 8 Nov 2022 11:58 AM

Added By sandhiyasivakumar2001@gmail.com

Connection Status **Connected**
Connection Time: 11 Nov 2022 10:55 PM
Client Address: 49.37.217.46 SecureToken

IBM Watson IoT Platform

PNT2022TMID00392 Connected ChildSafetyGadget Device 8 Nov 2022 11:58 AM

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
status	{"name":"Smartbridge","lat":17.4219272,"lon":7...	json	a few seconds ago
status	{"name":"Smartbridge","lat":17.4219272,"lon":7...	json	a few seconds ago

NODE – RED:

Node-RED

Flow 1

msg.payload

function

worldmap

geofence

rbe

switch

function

function

function

http request

show dialogue

child

msg.payload

debug

msg.payload : Object

```
{
  name: "Smartbridge",
  lat: 17.4219272,
  lon: 78.5400783
}
```

11/11/2022, 10:58:45 PM node: at6f1232499f77ef iot-2/type/ChildSafetyGadget/id/PNT2022TMID00392/ev/status : msg.payload : Object

```
{
  name: "Smartbridge",
  lat: 17.4219272,
  lon: 78.5400783
}
```

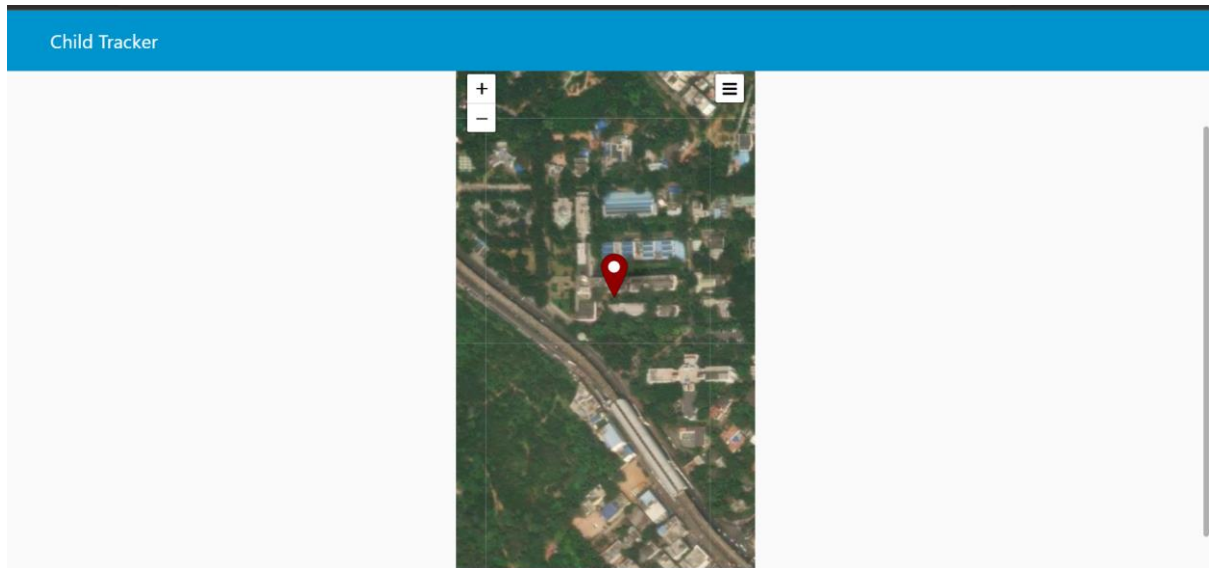
11/11/2022, 10:58:50 PM node: at6f1232499f77ef iot-2/type/ChildSafetyGadget/id/PNT2022TMID00392/ev/status : msg.payload : Object

```
{
  name: "Smartbridge",
  lat: 17.4219272,
  lon: 78.5400783
}
```

11/11/2022, 10:58:56 PM node: at6f1232499f77ef iot-2/type/ChildSafetyGadget/id/PNT2022TMID00392/ev/status : msg.payload : Object

```
{
  name: "Smartbridge",
  lat: 17.4219272,
  lon: 78.5400783
}
```

NODE – RED UI:



IBM CLOUD:

IBM Cloud

Search resources and products...

Catalog

Manage

Sandhya Sivakumar's ...

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Logs

Learn more about logs

View in Log Analysis with LogDNA

API Management

Autoscaling

Log type

▼

🔍 Search

Type

Instance

Logs

Time

RTR

14

node-red-apqzh-2022-11-08.eu-gb.mybluemix.net - [2022-11-11T17:01:37.259724503Z] "GET /ui/socket.io/?EIO=4&transport=websocket&sid=3EV2o6iLReB1efC3AAQ HTTP/1.1" 101 0 0 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.0.0 Safari/537.36" "10.72.112.194:58808" "158.176.68.97:61293" x_forwarded_for:"49.37.217.46, 10.72.112.194" x_forwarded_proto:"https" vcap_request_id:"c61b01f0-1c38-473e-756f-b0be881e5158" response_time:264.999782 gorouter_time:264.999782 app_id:"5c2fe3f7-0e83-4a05-a34f-ab43d12252a6" app_index:"0" instance_id:"36cea1f0-ee7f-4ae3-6459-ad24" x_cf_routererror:"-"

x_global_transaction_id:"fdd8562c636e7ff10057740b" true_client_ip:"-"

x_b3_traceid:"46c7322c2b34cd9d1b8220deca274329"

x_b3_spanid:"1b8220deca274329" x_b3_parentspanid:"-"

b3:"46c7322c2b34cd9d1b8220deca274329-1b8220deca274329"

Nov 11, 2022, 10:36:02 PM

node-red-apqzh-2022-11-08.eu-gb.mybluemix.net - [2022-11-11T17:01:41.715634330Z] "GET /worldmap/socket/511/wsiyc3ut/websocket HTTP/1.1" 101 0 0 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.0.0 Safari/537.36" "10.72.112.195:47361" "158.176.68.97:61293" x_forwarded_for:"49.37.217.46, 10.72.112.195"

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