

Safety Gadget for Child Safety Monitoring and Notification

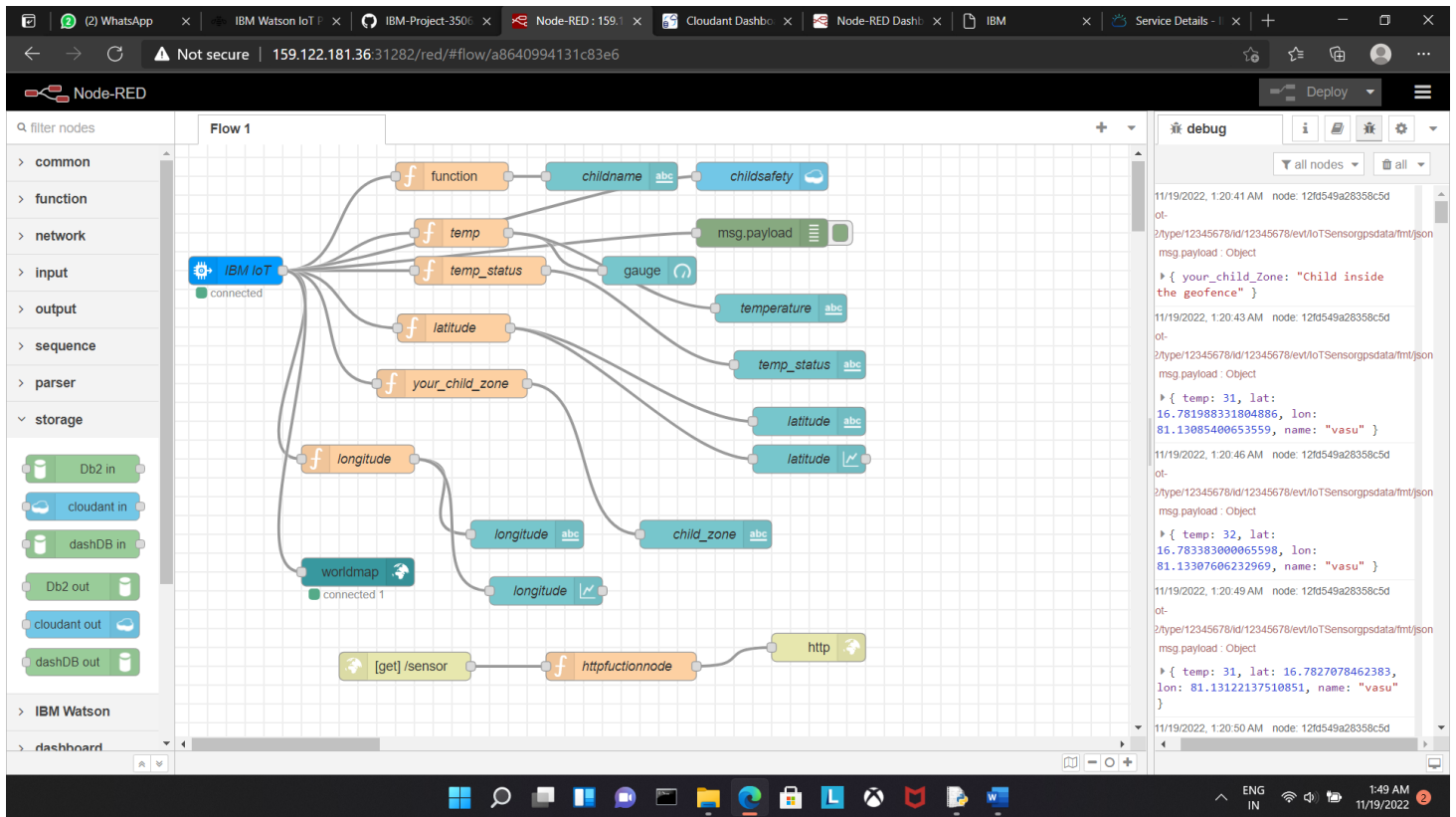
IBM NALAIYATHIRAN

Project Development –Delivery of Sprint 2

Creating Node –Red service and connect with IBM cloud and Web UI

TITLE	IOT based child safety gadget for child safety monitoring and notification
DOMAIN NAME	INTERNET OF THINGS
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Creating Node-Red service:



Connecting with IBM Cloud:
Using IBM IOT node through API key

IBM Watson IoT Platform

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ID: af19wm

Browse API Keys

Type the app description to search for

This table shows a summary of the API keys that have been added for the organization. It can be filtered, organized, and search on using different criteria. To get started, you can add API keys by clicking Generate API Key, or by using the API. For more information about adding API keys, see [API key connection](#).

Key	Description	Role	Expires
2 results			
a-af19wm-1mbpq91j2e	-	Standard Application	-
a-af19wm-sorw5pn3pw	API KEY for the device simulator	Standard Application	-

0 Simulations running

Transferring values from Python Code:

```

import time
import sys
import ibmiotf.application
import ibmiotf.device
import random

#Provide your IBM Watson Device Credentials
organization = "af19wm"
deviceType = "12345678"
deviceId = "12345678"
authMethod = "token"
authToken = "12345678"

try:
    deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method": authMethod}
    deviceCli = ibmiotf.device.Client(deviceOptions)
except Exception as e:
    print("Caught exception connecting device: %s" % str(e))
    sys.exit()

# Connect and send a datapoint "hello" with value "world" into the cloud as an event of type "greeting" 10 times
print("power on ")
print("checking connection to watson iot...")
time.sleep(2)
deviceCli.connect()
print("dear user ... welcome to IBM-IOT ")
print("i can provide your children live location and temperature ")
print()
name=str(input("enter your child name:"))
while True:

    temperature=random.randint(20,35)#random temperature for your child
    latitude=random.uniform(16.781377,16.78643)#random latitude for your child
    longitude=random.uniform(81.129113,81.134014)#random longitude for your child
    a="Child inside the geofence"
    b=" Child outside the geofence"
    c="High temperature"
    d="Low temperature"
    x=('your_child_zone':a)
    y=('your_child_zone':b)
    z=('temp_condition':c)
    w=('temp_condition':d)
    time.sleep(3)

    data = { 'temp' : temperature, 'lat': latitude, 'lon':longitude, 'name':name }
    #print data
  
```

```

Python 3.7.4 Shell*
{ 'your_child_zone': 'Child inside the geofence', 'published-temperature': 27 C
latitude = 16.784164924023305 %
longitude = 81.13240588376843 % to IBM Watson
Published Temperature = 21 C latitude = 16.78460466065743 % longitude = 81.13365598165731 %
to IBM Watson

Published Temperature = 29 C latitude = 16.78188531490654 % longitude = 81.13054176127113 %
to IBM Watson

Published Temperature = 34 C latitude = 16.784722698665014 % longitude = 81.13058916976195
% to IBM Watson

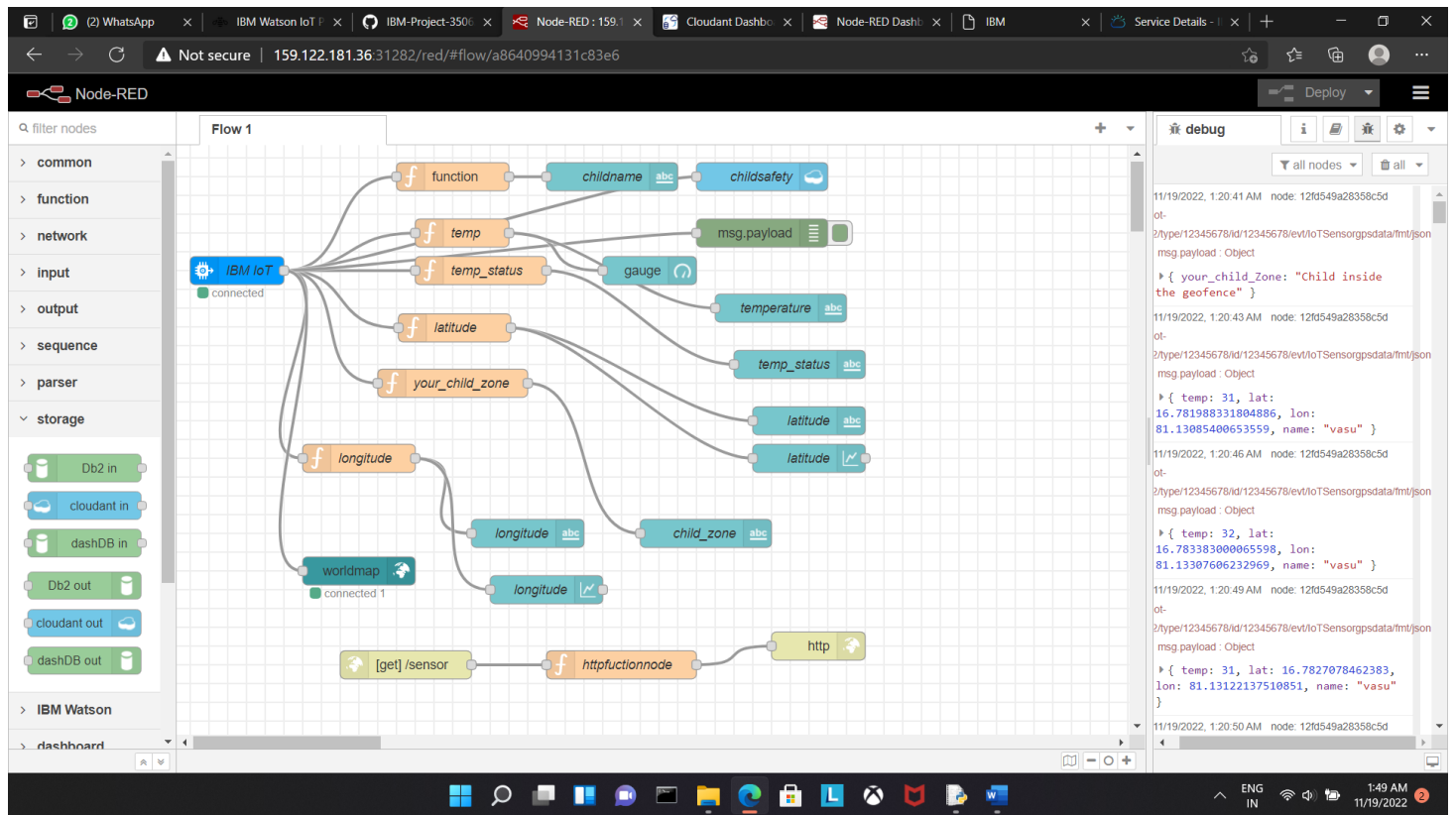
{'your_child_zone': 'Child inside the geofence'}Published Temperature = 34 C
latitude = 16.784722698665014 %
longitude = 81.13058916976195 % to IBM Watson
Published Temperature = 25 C latitude = 16.78517523606806 % longitude = 81.13290355780244 %
to IBM Watson

{'your_child_zone': 'Child inside the geofence'}Published Temperature = 25 C
latitude = 16.78517523606806 %
longitude = 81.13290355780244 % to IBM Watson
Published Temperature = 32 C latitude = 16.785847108367765 % longitude = 81.13135413996126
% to IBM Watson

{'your_child_zone': 'Child inside the geofence'}Published Temperature = 32 C
latitude = 16.785847108367765 %
longitude = 81.13135413996126 % to IBM Watson
Published Temperature = 32 C latitude = 16.784348552235425 % longitude = 81.1315078225852 %
to IBM Watson

{'your_child_zone': 'Child inside the geofence'}Published Temperature = 32 C
latitude = 16.784348552235425 %
longitude = 81.1315078225852 % to IBM Watson
Published Temperature = 29 C latitude = 16.782440759898233 % longitude = 81.13239936284579
% to IBM Watson
  
```

Node-Red:



Node-Red Dashboard:

