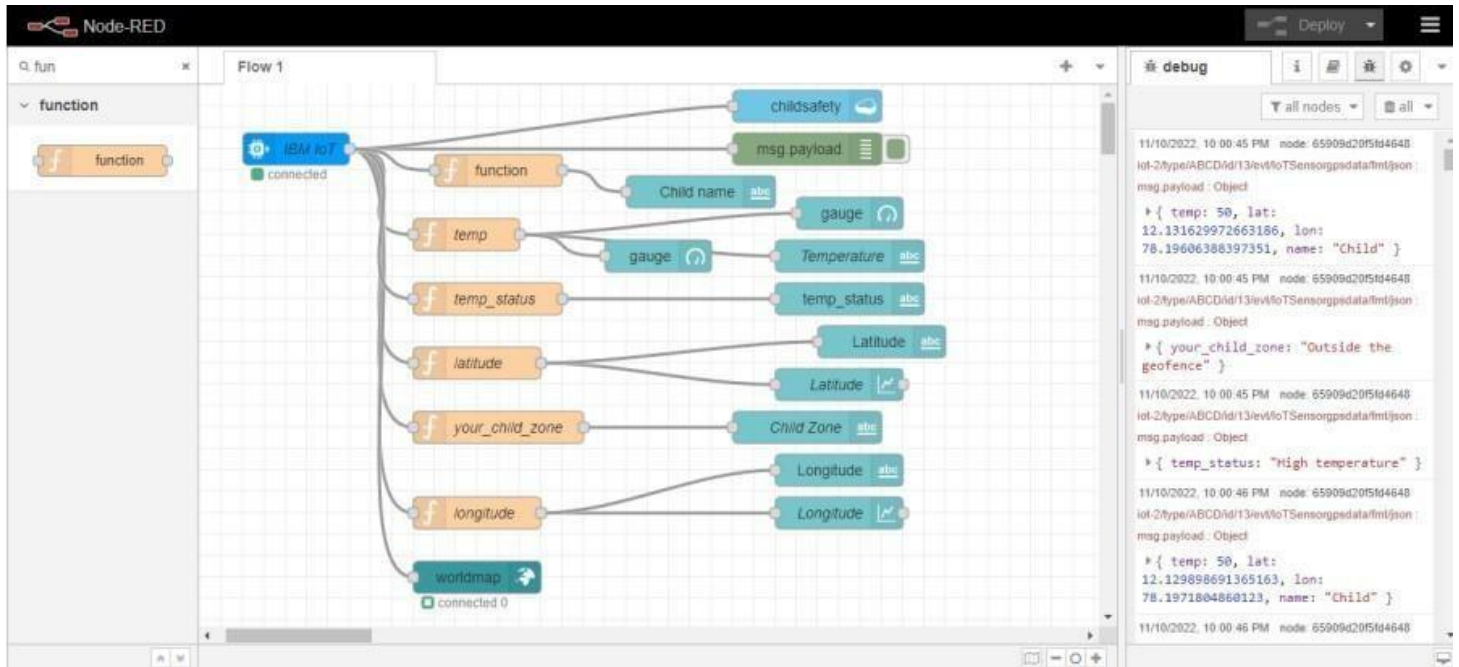


SPRINT -2

Creating Node-Red service:



Using IBM IOT node through API key

BrowseIBM Cloud Apps

The API key has been added.

Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the API key to generate a new authentication token.

Generated Details

API Key

a-zwx6lb-z7sryerler

Authentication Token

dO&H(qcUv)icaFOYcb

API Key Information

Description

-

Role

Standard Application

Expires

Never

Make a note of the generated authentication token. Lost authentication tokens cannot be recovered. If you lose the token, you must reregister the API to generate a new token.

1 Simulation running

The screenshot displays the IBM Cloud API Keys management console. At the top, there's a navigation bar with 'Browse' and 'IBM Cloud Apps'. Below this is a filter bar with columns for 'Key', 'Description', 'Role', and 'Expires'. The main content area shows a table of API keys. The first key, 'a-zwx6lb-97epyzrfc', is selected and its details are shown in a modal. The modal has two tabs: 'API Key Information' (active) and 'Access Control/Permissions'. The 'API Key Information' tab shows the following details:

Field	Value
Key	a-zwx6lb-97epyzrfc
Last Edited By	613519106013@smartinternz.com
Description	
Expires	Never
Date Added	Nov 7, 2022 5:54 PM
Last Update	Nov 7, 2022 5:54 PM

A notification at the bottom right indicates '1 Simulation running'.

Transferring values from Python Code:

Child Safety device.py - C:/Users/kutta/Desktop/IBM-Dz/Child Safety device.py (3.7.4)

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

#Provide your IBM Watson Device Credentials
organization = "illral"
deviceType = "latlonem"
deviceId = "613510"
authMethod = "token"
authToken = "1092837465"
#api key (x-illral-mbdxqc6z0s)
#api token (zSYaISuAMF4F_x7GX7)

try:
    deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-metho
    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
print("power on ")
print("checking connection to waston 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(20,50)#random temperature for your child
    latitude=random.uniform(10.781377,10.78643)#random latitude for your child
    longitude=random.uniform(79.129113,79.134014)#random longitude for your child

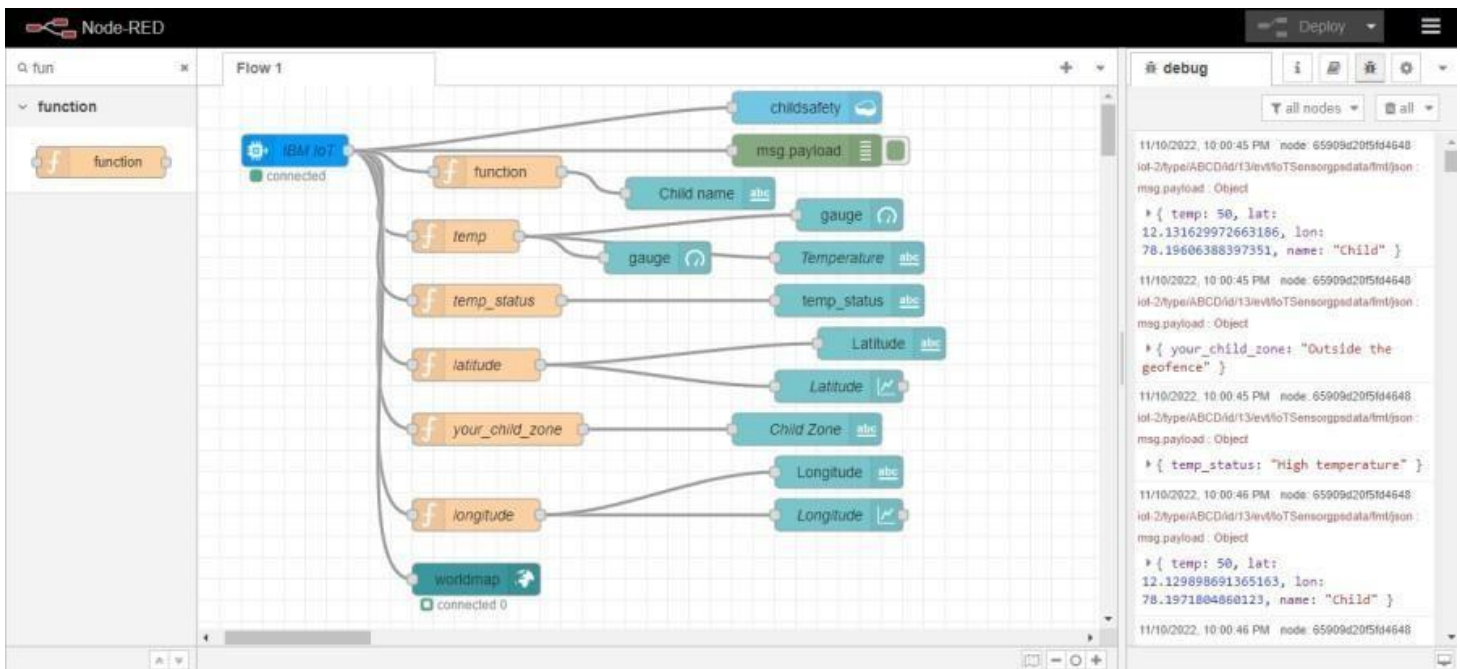
    data = { 'temp': temperature, 'lat': latitude, 'lon': longitude, 'name': name }
    #print data
    def myOnPublishCallback():
```

"Python 3.7.4 Shell"

```
Python 3.7.4 (tags/v3.7.4:09359112e, Jul 8 2019, 20:34:20) [MSC v.1916 64
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/kutta/Desktop/IBM-Dz/Child Safety device.py =====
power on
checking connection to waston iot...
2022-11-10 22:14:21.799 ibmiotf.device.Client INFO Connected succe
ll: d:illral:latlonem:613510
dear user ... welcome to IBM-IOT
I can provide your children live location and temperature

enter your child name:child
Published Temperature = 39 C latitude = 10.782749628132827 % longitude = 79.
867253162 % to IBM Watson
Published Temperature = 39 C latitude = 10.782669248109656 % longitude = 79.
1255540076 % to IBM Watson
Published Temperature = 43 C latitude = 10.781765104656792 % longitude = 79.
077864707 % to IBM Watson
Published Temperature = 30 C latitude = 10.786083936690018 % longitude = 79.
2366715787 % to IBM Watson
Published Temperature = 31 C latitude = 10.784810558975826 % longitude = 79.
0117359415 % to IBM Watson
Published Temperature = 45 C latitude = 10.785949922923024 % longitude = 79.
5563867668 % to IBM Watson
Published Temperature = 24 C latitude = 10.784168891438233 % longitude = 79.
9528906442 % to IBM Watson
Published Temperature = 23 C latitude = 10.786248060883958 % longitude = 79.
4368596464 % to IBM Watson
Published Temperature = 27 C latitude = 10.783808327214418 % longitude = 79.
951933729 % to IBM Watson
Published Temperature = 43 C latitude = 10.786340416981865 % longitude = 79.
7748803969 % to IBM Watson
Published Temperature = 49 C latitude = 10.786208956579015 % longitude = 79.
2192551409 % to IBM Watson
Published Temperature = 45 C latitude = 10.783690544907325 % longitude = 79.
504415061 % to IBM Watson
```

Node-Red:



Node-Red Dashboard:

