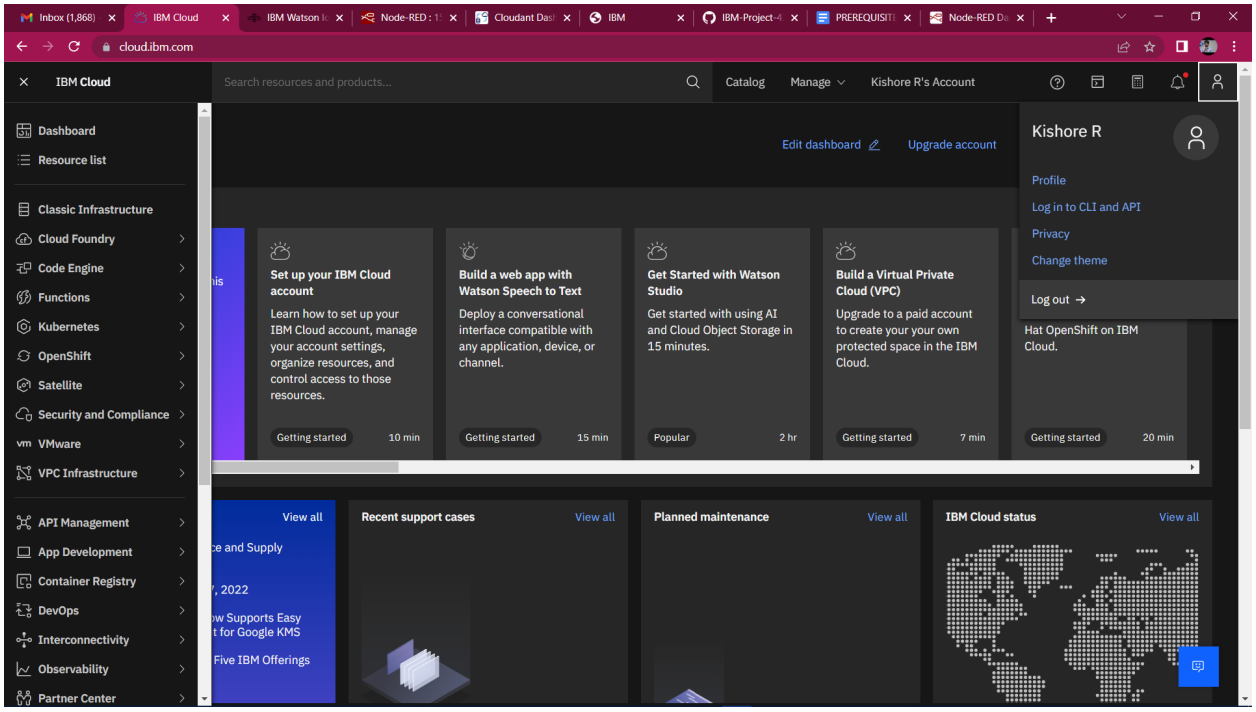
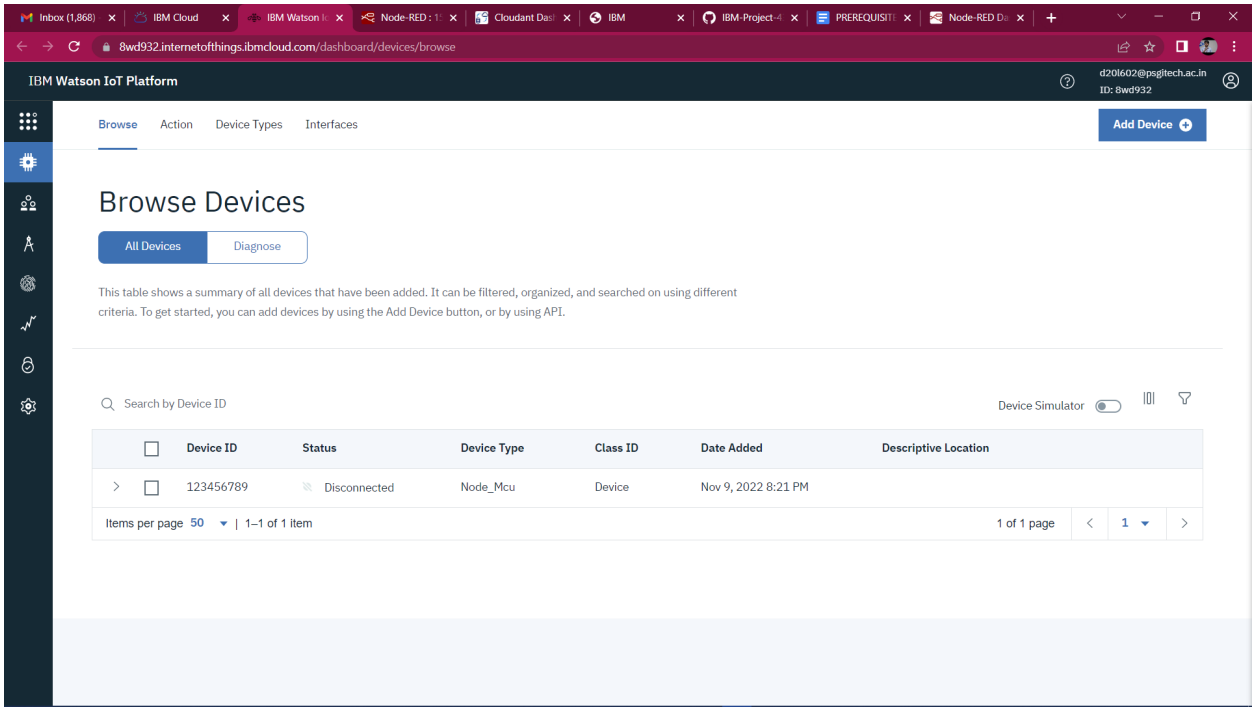
PREREQUISITES

Date	03 November 2022
Team ID	PNT2022TMID43416
Project Name	Project - SMART WASTE MANAGEMENT SYSTEM

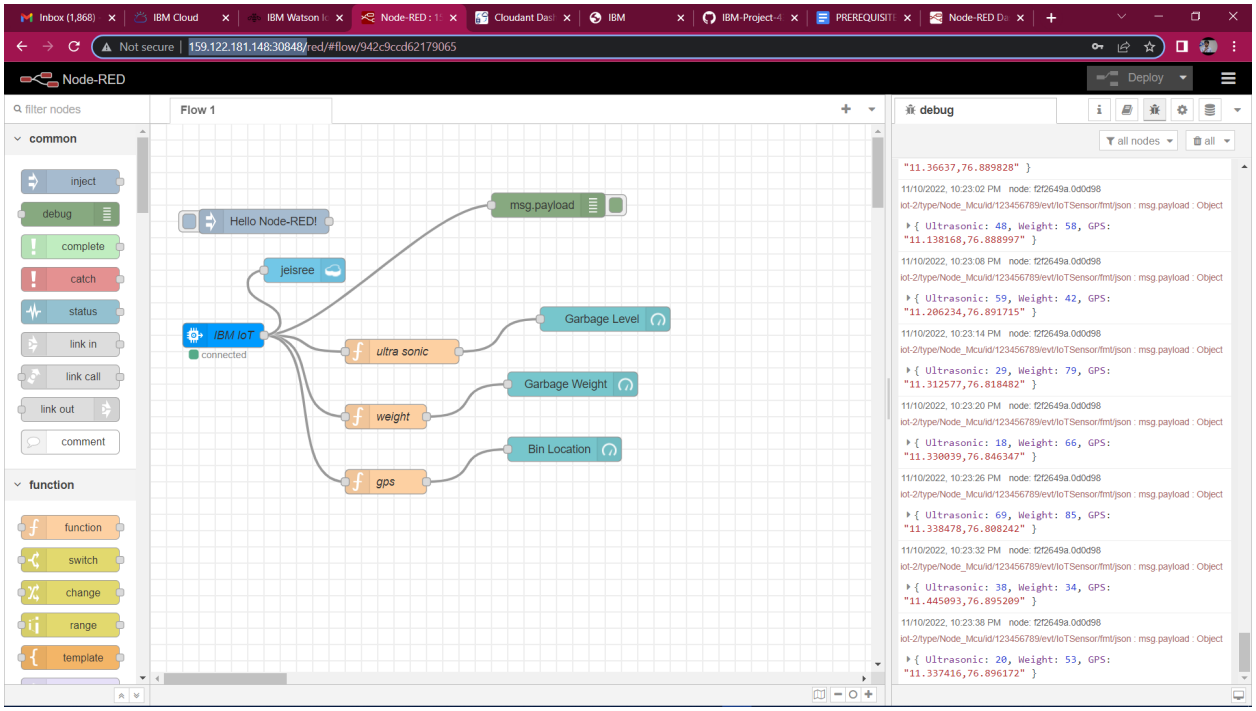
IBM Cloud Services:



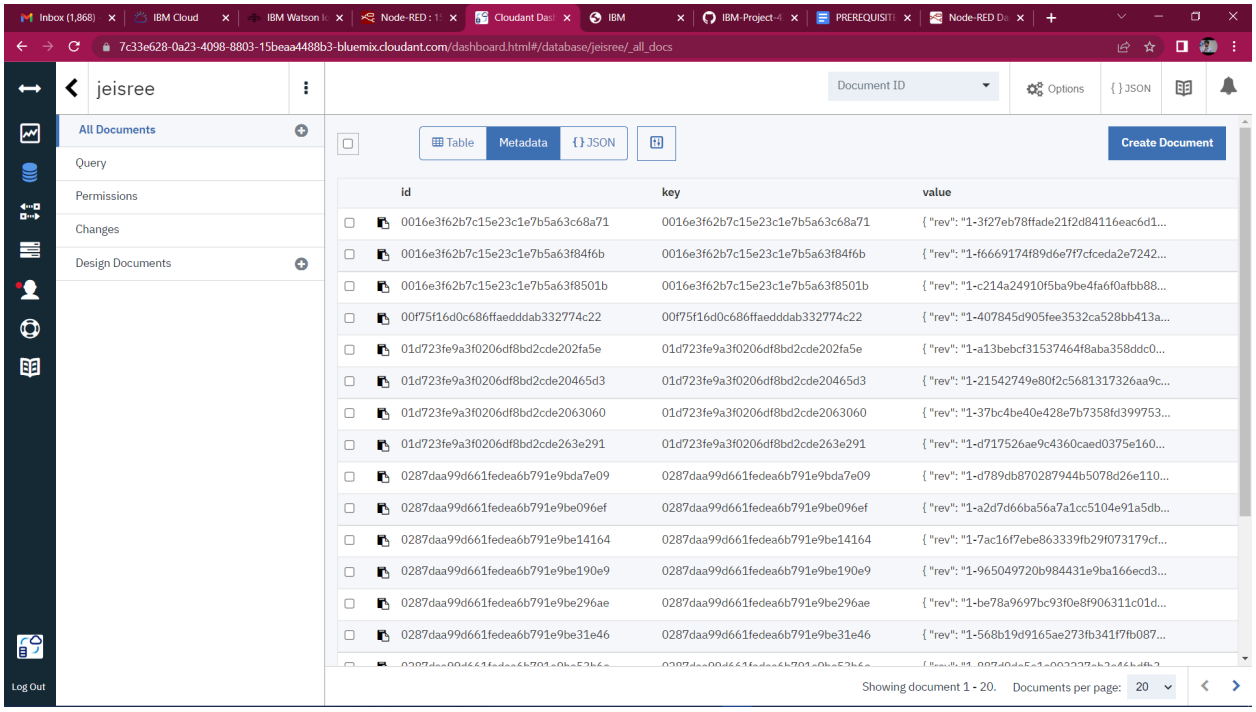
IBM Watson IOT Platform:



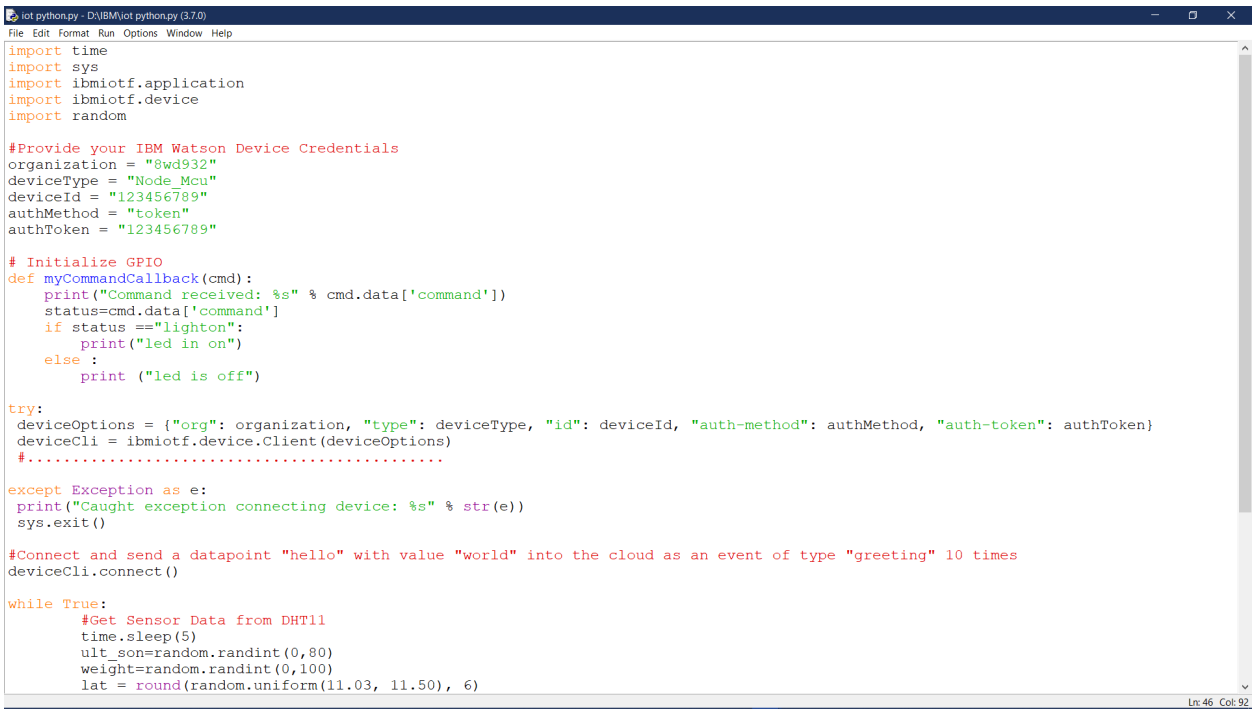
Node - RED:



Cloudant Dashboard:



Python IDE:



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

#Provide your IBM Watson Device Credentials
organization = "8wd932"
deviceType = "Node_Mcu"
deviceId = "123456789"
authMethod = "token"
authToken = "123456789"

# Initialize GPIO
def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status =="lighton":
        print("led in on")
    else :
        print ("led is off")

try:
 deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method": authMethod, "auth-token": authToken}
 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
deviceCli.connect()

while True:
        #Get Sensor Data from DHT11
        time.sleep(5)
        ult_son=random.randint(0,80)
        weight=random.randint(0,100)
        lat = round(random.uniform(11.03, 11.50), 6)
```