CREATE AND CONFIGURE IBM CLOUD SERVICES

Create node red

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Team Id	PNT2022TMID22894
Project name	Smart Farmer-IoT Enabled Smart Farming Application

STPE 1:PUT PYTHON CODE AND OUTPUT

```
source code.py - C:\Users\BUBU\Desktop\source code.py (3.9.6)
File  Edit  Format  Run  Options  Window  Help
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "ih2ifs",
        "typeId": "NodeMCU",
        "deviceId":"12345"
    },
    "auth": {
        "token": "12345678"
    }
}

def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']
    if(m=="motoron"):
        print("Motor is switched on")
    elif(m=="motoroff"):
        print("Motor is switched off")
    print(" ")

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    moist=random.randint(0,14)
    myData={'temperature':temp, 'humidity':hum, 'Moisture':moist}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPubli
    print("Published data Successfully: %s", myData)


    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```
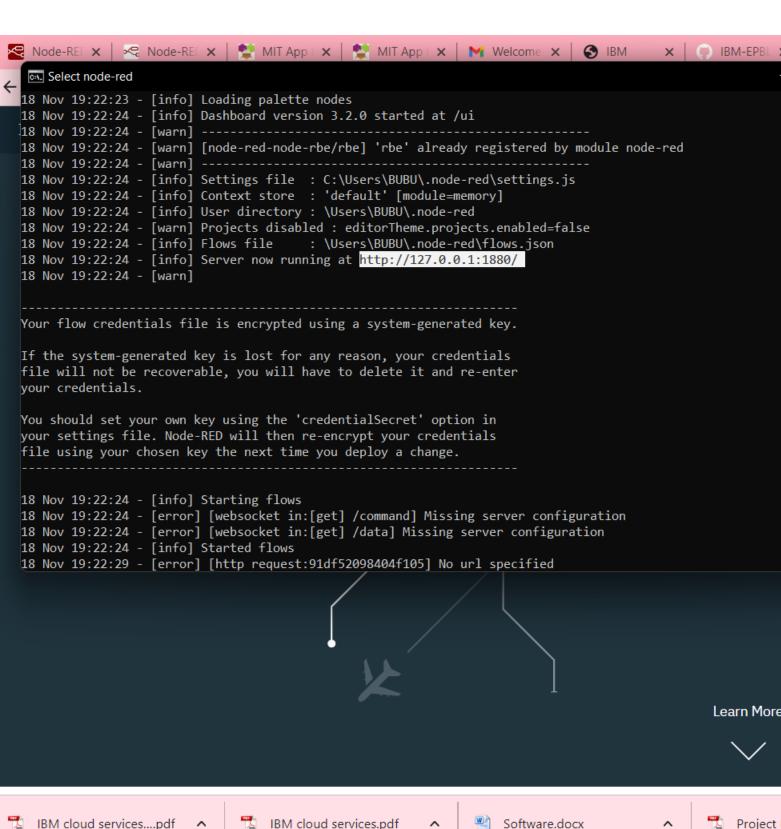
```
Python 3.9.6 (tags/v3.9.6:db3ff76, Jun 28 2021, 15:26:21) [MSC v.1929 64 bit (AMD64)]
Type "help", "copyright", "credits" or "license()" for more information.
>>>
================= RESTART: C:\Users\BUBU\Desktop\source code.py =================
2022-11-18 03:07:36,289    wiotp.sdk.device.client.DeviceClient    INFO    Connected succe
Published data Successfully: %s {'temperature': 27, 'humidity': 9, 'Moisture': 5}
Published data Successfully: %s {'temperature': 44, 'humidity': 85, 'Moisture': 7}
Published data Successfully: %s {'temperature': 88, 'humidity': 54, 'Moisture': 2}
Published data Successfully: %s {'temperature': 98, 'humidity': 38, 'Moisture': 12}
Published data Successfully: %s {'temperature': 73, 'humidity': 23, 'Moisture': 4}
Published data Successfully: %s {'temperature': 98, 'humidity': 69, 'Moisture': 12}
Published data Successfully: %s {'temperature': 39, 'humidity': 70, 'Moisture': 14}
Published data Successfully: %s {'temperature': -7, 'humidity': 2, 'Moisture': 10}
Published data Successfully: %s {'temperature': -3, 'humidity': 50, 'Moisture': 3}
Published data Successfully: %s {'temperature': -2, 'humidity': 21, 'Moisture': 3}
Published data Successfully: %s {'temperature': 125, 'humidity': 95, 'Moisture': 10}
Published data Successfully: %s {'temperature': 83, 'humidity': 85, 'Moisture': 10}
Published data Successfully: %s {'temperature': 117, 'humidity': 35, 'Moisture': 11}
Published data Successfully: %s {'temperature': 84, 'humidity': 12, 'Moisture': 14}
Published data Successfully: %s {'temperature': 28, 'humidity': 100, 'Moisture': 10}
Published data Successfully: %s {'temperature': 8, 'humidity': 21, 'Moisture': 6}
```

STEP 2: GO TO COMMAND PROMPT AND COPY THE LINK FOR NODE RED

```
18 Nov 19:22:23 - [info] Loading palette nodes
18 Nov 19:22:24 - [info] Dashboard version 3.2.0 started at /ui
18 Nov 19:22:24 - [warn] ------------------------------------------------------------
18 Nov 19:22:24 - [warn] [node-red-node-rbe/rbe] 'rbe' already registered by module node-red
18 Nov 19:22:24 - [warn] ------------------------------------------------------------
18 Nov 19:22:24 - [info] Settings file  : C:\Users\BUBU\.node-red\settings.js
18 Nov 19:22:24 - [info] Context store  : 'default' [module=memory]
18 Nov 19:22:24 - [info] User directory : \Users\BUBU\.node-red
18 Nov 19:22:24 - [warn] Projects disabled : editorTheme.projects.enabled=false
18 Nov 19:22:24 - [info] Flows file     : \Users\BUBU\.node-red\flows.json
18 Nov 19:22:24 - [info] Server now running at http://127.0.0.1:1880/
18 Nov 19:22:24 - [warn]

------------------------------------------------------------
Your flow credentials file is encrypted using a system-generated key.

If the system-generated key is lost for any reason, your credentials
file will not be recoverable, you will have to delete it and re-enter
your credentials.

You should set your own key using the 'credentialSecret' option in
your settings file. Node-RED will then re-encrypt your credentials
file using your chosen key the next time you deploy a change.
------------------------------------------------------------

18 Nov 19:22:24 - [info] Starting flows
18 Nov 19:22:24 - [error] [websocket in:[get] /command] Missing server configuration
18 Nov 19:22:24 - [error] [websocket in:[get] /data] Missing server configuration
18 Nov 19:22:24 - [info] Started flows
18 Nov 19:22:29 - [error] [http request:91df52098404f105] No url specified
```

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STEP 3:CREATE A NODE RED FLOW