# **PYTHON SCRIPT**

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To deployment of IOT platform is also initiated by the python interpreter the IOT platform to connect with devices. Few packages need to be installed to work in python interpreter to traverse between simulator and NODE-RED many other services

## PYTHON CODE FOR NODE-RED AND SIMULATOR

The below python code communicates between Node-Red Services, Simulator.

# #IBM Watson IOT Platform#pip install wiotp-sdk import wiotp.sdk.device import time import random myConfig = { "identity": { "orgId": "6fkjbm", "typeId": "iotdevice1",

"deviceId":"qwerty123"

CODE:

},

"auth": {

```
"token": "johnyjohnyyespapa"
  }
def myCommandCallback(cmd):
                                             Platform:
  print("Message
                received
                          from
                                 IBM
                                       IoT
                                                       %s"
%cmd.data['command'])
  m=cmd.data['comman
 d']if(m=="Motor-
  ON"):
    is
                                               Turned
else:
                                               is
                                               Turned
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
  temp=random.randint(-
  20,125)
  hum=random.randint(0,100)
  myData={'temperature':temp, 'humidity':hum}
  client.publishEvent(eventId="status", msgFormat="json", data=myData,
qos=0, onPublish=None)
  print("Published
                                   %s",
                 data
                      Successfully:
  myData)
             client.commandCallback
  myCommandCallbacktime.sleep(2)
```

## IBM TEXT TO SPEECH

```
from ibm_watson import TextToSpeechV1
from ibm_cloud_sdk_core.authenticators import IAMAuthenticator
authenticator
IAMAuthenticator('M_u6yEvEGJylj_ysbL_pG0ZOKuRCQW1LgXUtv_IcB
PCR')
text_to_speech = TextToSpeechV1(
  authenticator=authenticator
)
text_to_speech.set_service_url('https://api.au-syd.text-to-
speech.watson.cloud.ibm.com/instances/23724eb6-a096-4a3a-
b914-da0e442c1c5f')
with open('hello_world.wav', 'wb') as
  audio_file:audio_file.write(
    text_to_speech.synthesize(
       'Alert',
       voice='en-
       US_AllisonV3Voice',
       accept='audio/wav'
    ).get_result().content)
```

### **OUTPUT:**

