

# DEVELOPMENT – DELIVERY OF SPRINT 3

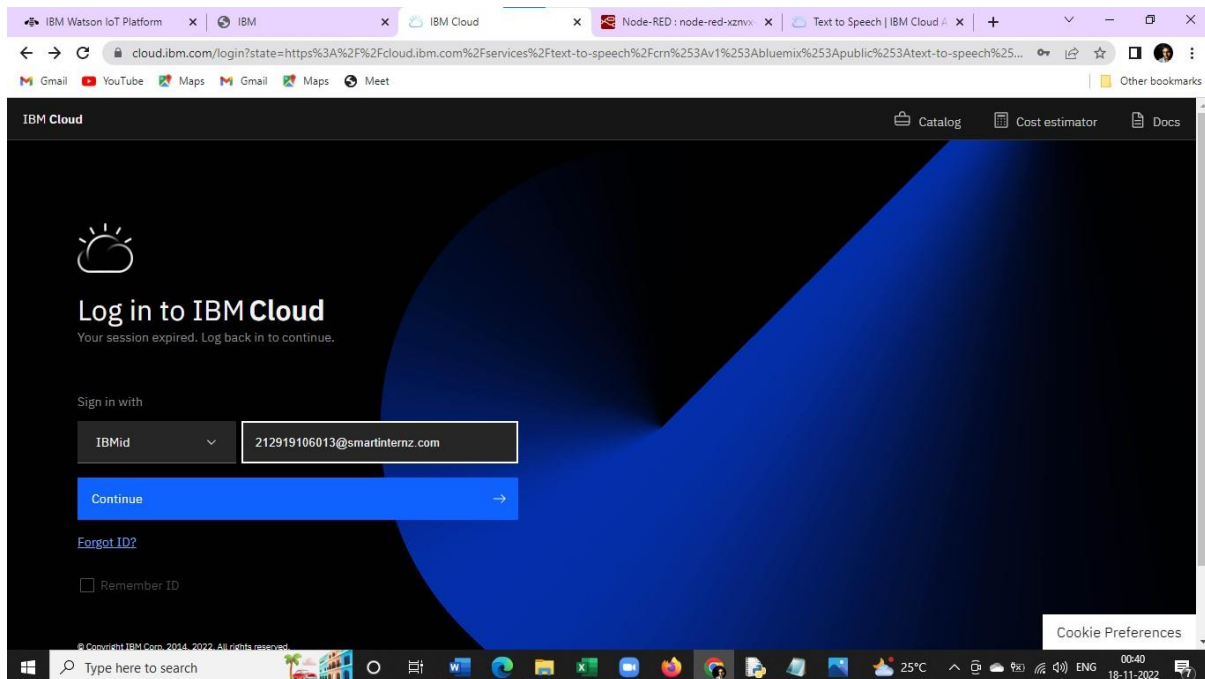
## ( TEXT TO SPEECH SERVICE )

TEAM ID	PNT2022TMID26620
PROJECT NAME	Personal Assistance for Seniors Who Are Self-Reliant

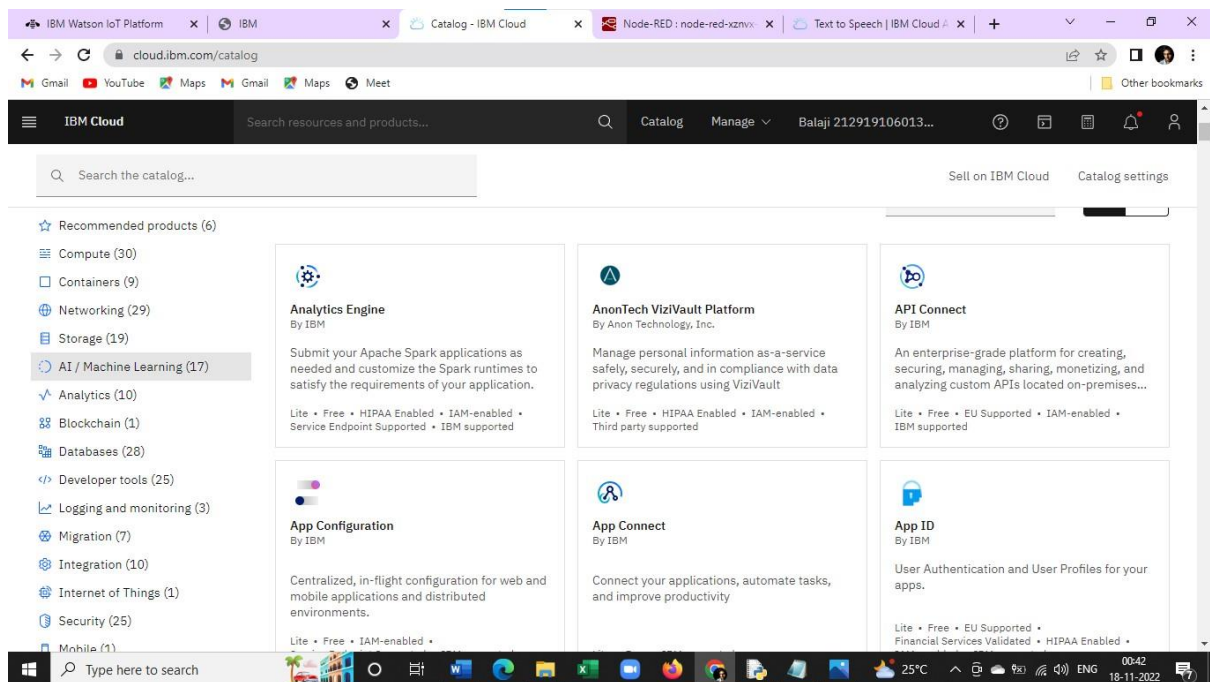
**AIM :** TO CREATE AN TEXT TO SPEECH SERVICE IN AN IOT IBM PLATFORM

**STEPS TO BE FOLLOWED :**

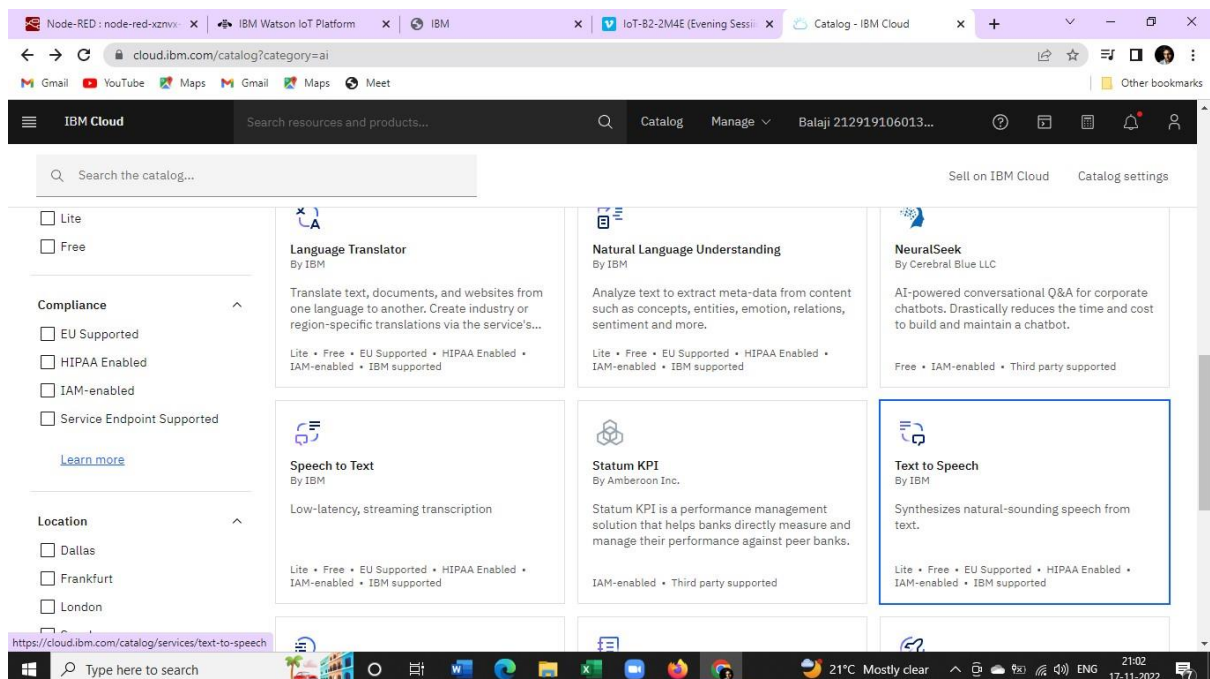
**STEP 1 :** FIRST SHOULD LOGIN IN YOUR IBM CLOUD ACCOUNT IN YOUR BROWSER



## STEP 2 : OPEN CATALOG MENU GIVEN ON THE RIGHT SIDE OF THE TOP



## STEP 3 : IN THE CATEGORY MENU GIVEN IN THE LEFT SIDE, CHOOSE AN ARTIFICIAL INTELLIGENCE OPTION.



## STEP 4 : JUST SCROLL DOWN, SEARCH AND SELECT THE “ TEXT TO SPEECH SERVICE “

The screenshot shows the IBM Cloud catalog page for the Text to Speech service. The page is titled "Text to Speech" and describes it as a service that synthesizes natural-sounding speech from text. The "Create" tab is active, showing a form to select a location (London (eu-gb)) and a pricing plan (Lite). The Lite plan is highlighted, showing it is free and includes 10,000 characters per month. A summary panel on the right shows the service details: Text to Speech, Location: London, Plan: Lite, Service name: Text to Speech-oe, and Resource group: Default. There is a "Create" button and an "Add to estimate" button.

IBM Cloud Catalog / Text to Speech

Synthesizes natural-sounding speech from text.

Create About

Type Service

Provider IBM

Last updated 11/04/2022

Category AI / Machine Learning

Compliance EU Supported HIPAA Enabled IAM-enabled

Location Sydney

Select a location

London (eu-gb)

Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

Plan	Features	Pricing
Lite	10,000 Characters per Month	Free

The Lite plan gets you started with 10,000 characters per month at no cost. When you upgrade to a paid plan, you will get access to Customization capabilities.

Summary

Text to Speech Free

Location: London

Plan: Lite

Service name: Text to Speech-oe

Resource group: Default

☐ I have read and agree to the following license agreements: [Terms](#)

Create

Add to estimate

## STEP 5 : READ AND FILL CAREFULLY WITH REQUIRED DATA AND TO CREATE AN ACCOUNT

The screenshot shows the IBM Cloud service page for Text to Speech, specifically the "Getting started" section. The page is titled "Getting started with Text to Speech" and includes a video player. The video player has a play button and a title "Get started with Watson Text to Speech". The page also includes a sidebar with navigation links: Manage, Getting started, Service credentials, Plan, and Connections. The main content area describes the service and provides a link to the video.

IBM Cloud Search resources and products... Catalog Manage Balaji 212919106013...

Manage

Getting started

Service credentials

Plan

Connections

### Getting started with Text to Speech

Last Updated: 2021-02-02

The IBM Watson™ Text to Speech service converts written text to natural-sounding speech to provide speech-synthesis capabilities for applications. This `curl`-based tutorial can help you get started quickly with the service. The examples show you how to call the service's `POST` and `GET /v1/synthesize` methods to request an audio stream.

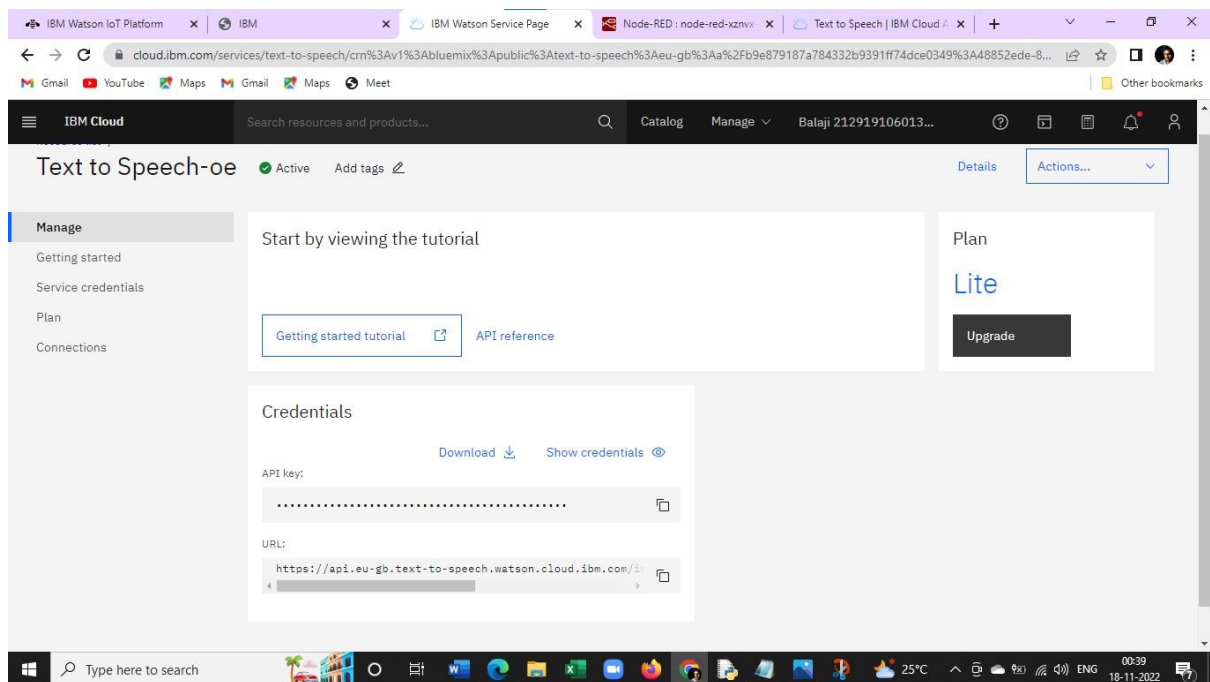
**IBM Cloud® only.** Watch the following video for a visual summary of getting started with the Text to Speech service.

Text to Speech-ge

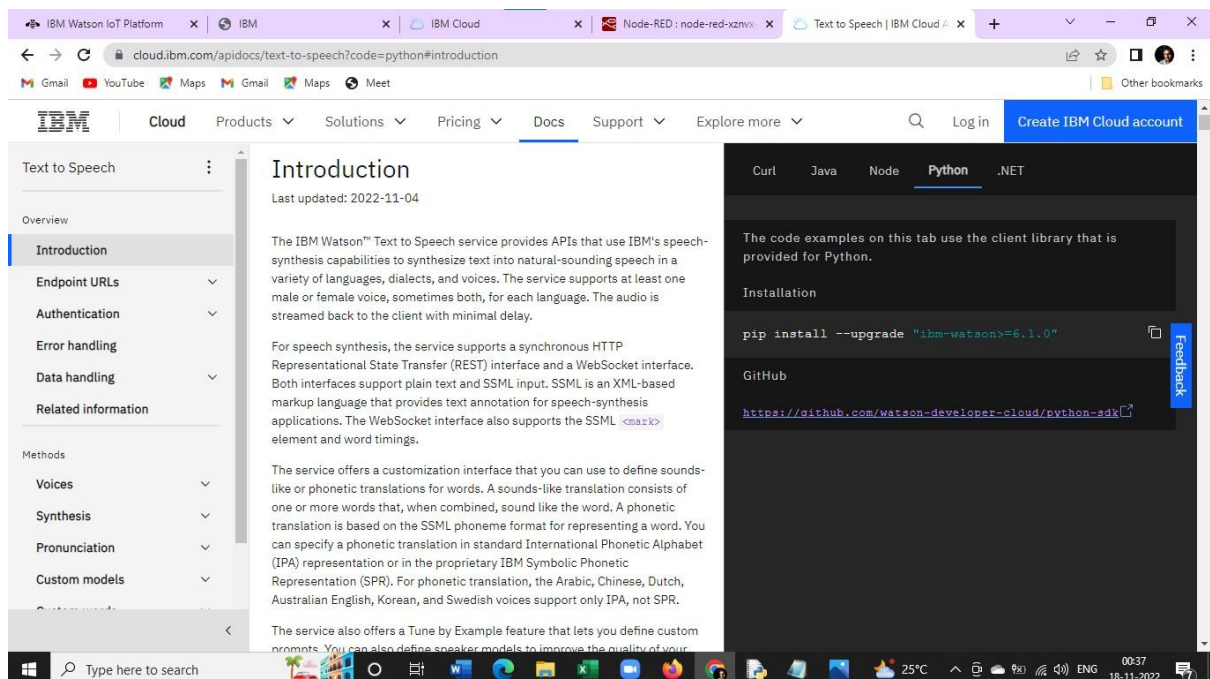
Getting started with Text to Speech

Get started with Watson Text to Speech

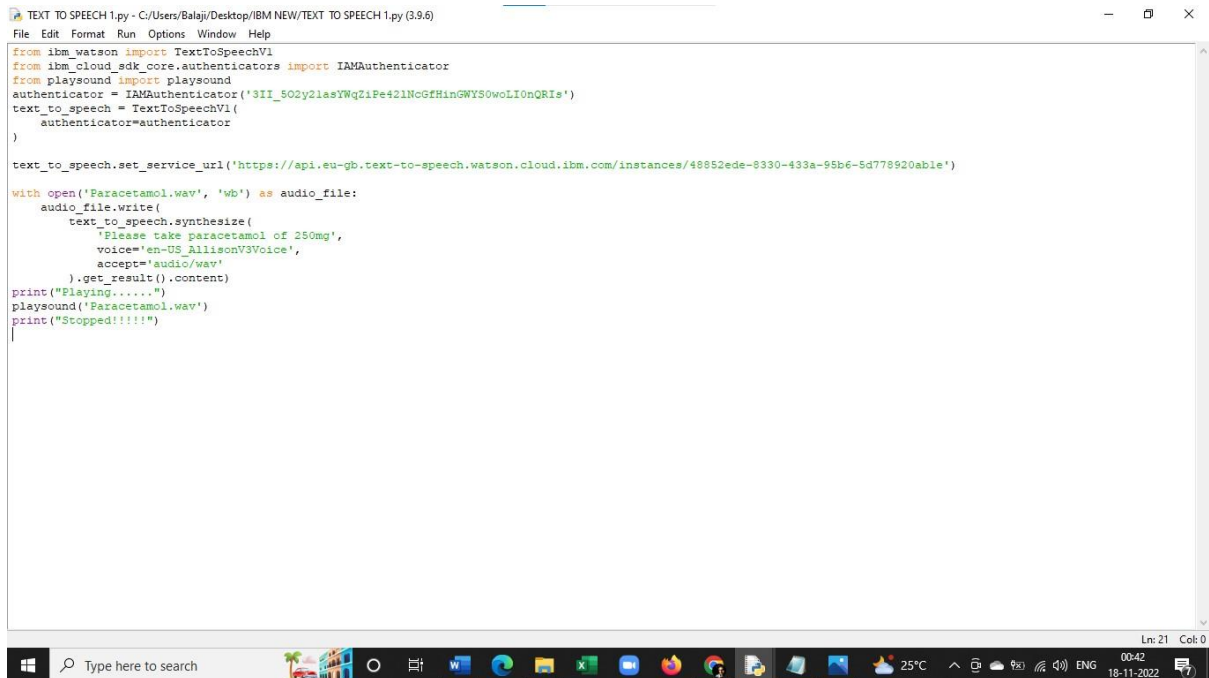
## STEP 6 : AFTER CREATING IT WILL GENERATES API KEY AND URL TAKE IT DOWN CAREFULLY



## STEP 7 : INSTALL USING THE GIVEN COMMAND IN YOUR PYTHON SOFTWARE



## STEP 8 : AND NOW START CODING IN YOUR PYTHON SOFTWARE AND GET RESULTS



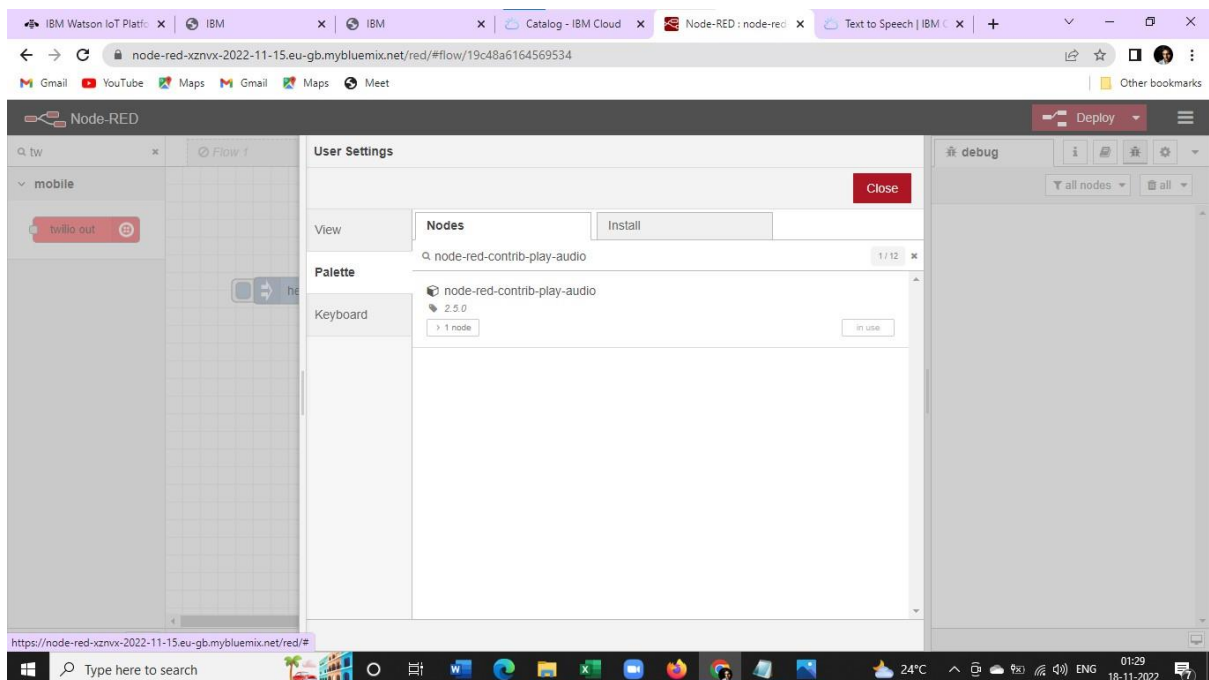
```
TEXT TO SPEECH 1.py - C:/Users/Balaji/Desktop/IBM NEW/TEXT TO SPEECH 1.py (3.9.6)
File Edit Format Run Options Window Help

from ibm_watson import TextToSpeechV1
from ibm_cloud_sdk_core.authenticators import IAMAuthenticator
from playsound import playsound
authenticator = IAMAuthenticator('3II_5O2y2lasYWqZiPe42lNcGFHingWYS0woLI0nQRi0')
text_to_speech = TextToSpeechV1(
    authenticator=authenticator
)

text_to_speech.set_service_url('https://api.eu-gb.text-to-speech.watson.cloud.ibm.com/instances/48852ede-8330-433a-95b6-5d778920able')

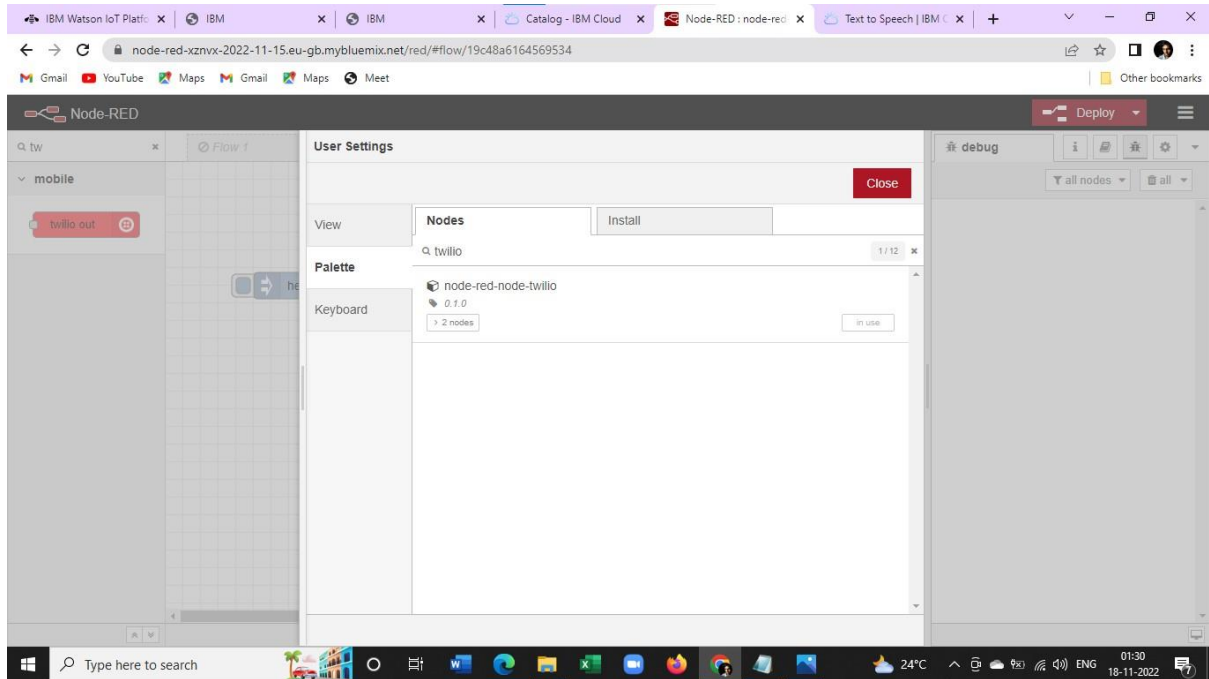
with open('Paracetamol.wav', 'wb') as audio_file:
    audio_file.write(
        text_to_speech.synthesize(
            'Please take paracetamol of 250mg',
            voice='en-US_AllisonV3Voice',
            accept='audio/wav'
        ).get_result().content
    )
print("Playing.....")
playsound('Paracetamol.wav')
print("Stopped!!!!!!")
```

## STEP 9 : BY USING NODE RED SERVICES INSTALL A NODE-RED-PLAY-AUDIO TOOL

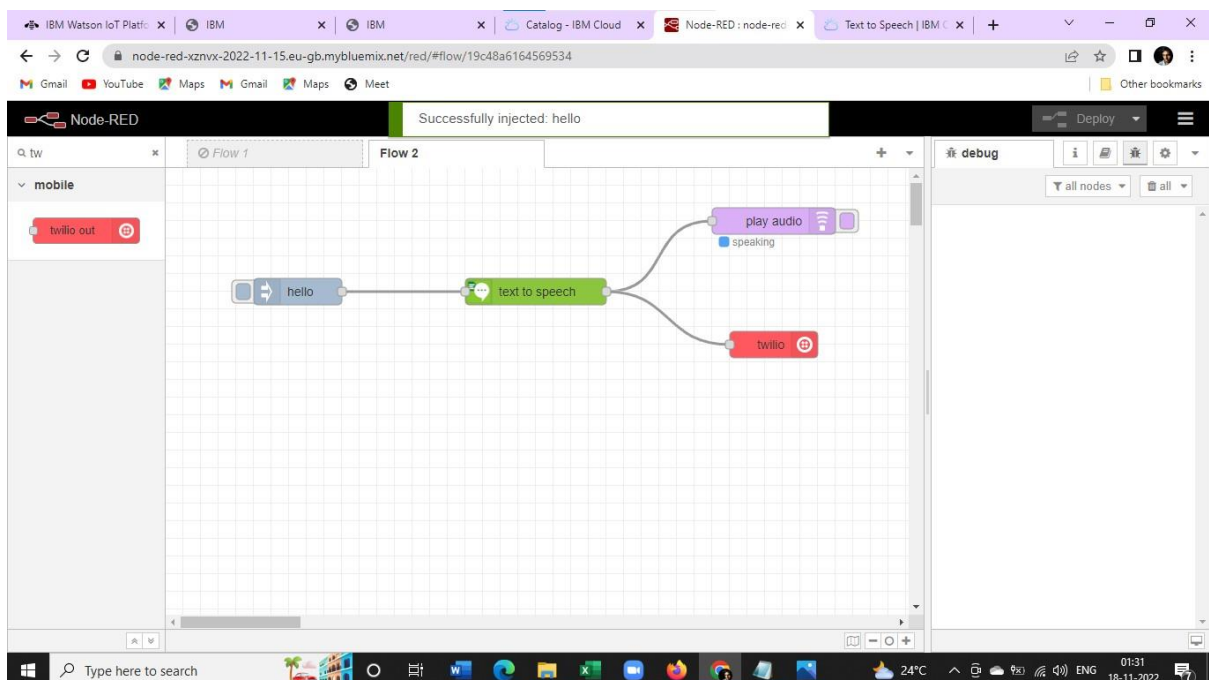




**STEP 10 : ALSO INSTAL TWILIO FOR SENDING VOICE SMS AND CALLS (NOTE IN TWILIO WEB SITE NUMBERS SHOULD BE VERIFIED THEN ONLY WE WILL GET API KEYS AND AUTH TOKENS AND ALSO RECEIVE CALL OR VOICE NOTES )**



**STEP 11 : IN TWILIO NODE INJECT THE RECEIVER DETAILS AFTER DEPLOY AND INJECT THE MSG.PAYLOAD**



**RESULT :**

VOICE WILL BE GENERATED FOR THE GIVEN INPUT TO  
THE RECEIVER.