

CREATE & CONFIGURE IBM CLOUD SERVICE

CREATE THE TEXT-TO-SPEECH SERVICE

Installation of Watson-TTS Client library Provided for Python:

Code:

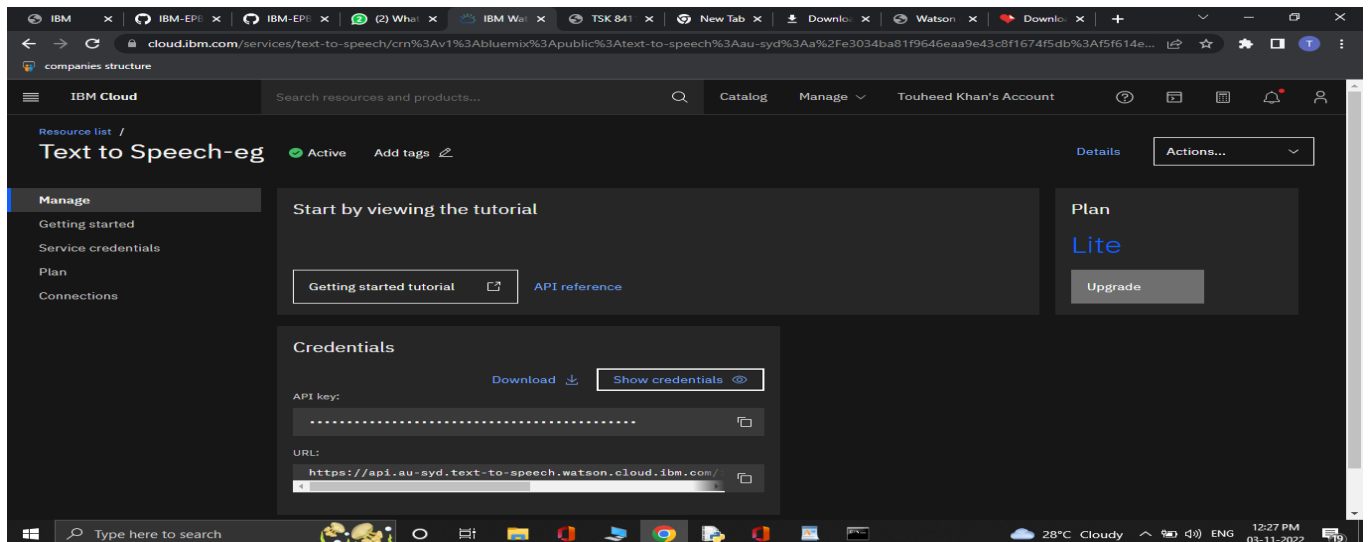
Pip install -upgrade "ibm-watson">=6.1.0"

```
Command Prompt
(C) Microsoft Corporation. All rights reserved.

C:\Users\TOUHEED KHAN>pip install --upgrade "ibm-watson">=6.1.0
Requirement already satisfied: ibm-watson>=6.1.0 in c:\users\touheed khan\appdata\local\programs\python\python38\lib\site-packages (6.1.0)
Requirement already satisfied: websocket-client<=1.1.0 in c:\users\touheed khan\appdata\local\programs\python\python38\lib\site-packages (from ibm-watson>=6.1.0) (1.1.0)
Requirement already satisfied: python-dateutil>=2.5.3 in c:\users\touheed khan\appdata\local\programs\python\python38\lib\site-packages (from ibm-watson>=6.1.0) (2.8.2)
Requirement already satisfied: ibm-cloud-sdk-core<=3.*>=3.3.6 in c:\users\touheed khan\appdata\local\programs\python\python38\lib\site-packages (from ibm-watson>=6.1.0) (3.16.0)
Requirement already satisfied: requests<3.0,>=2.0 in c:\users\touheed khan\appdata\local\programs\python\python38\lib\site-packages (from ibm-watson>=6.1.0) (2.28.1)
Requirement already satisfied: urllib3<2.0.0,>=1.26.0 in c:\users\touheed khan\appdata\local\programs\python\python38\lib\site-packages (from ibm-cloud-sdk-core<=3.*>=3.3.6->ibm-watson>=6.1.0) (1.26.12)
Requirement already satisfied: PyJWT<3.0.0,>=2.4.0 in c:\users\touheed khan\appdata\local\programs\python\python38\lib\site-packages (from ibm-cloud-sdk-core<=3.*>=3.3.6->ibm-watson>=6.1.0) (2.6.0)
Requirement already satisfied: six>=1.5 in c:\users\touheed khan\appdata\local\programs\python\python38\lib\site-packages (from python-dateutil>=2.5.3->ibm-watson>=6.1.0) (1.16.0)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\users\touheed khan\appdata\local\programs\python\python38\lib\site-packages (from requests<3.0,>=2.0->ibm-watson>=6.1.0) (2.1.1)
Requirement already satisfied: idna<4,>=2.5 in c:\users\touheed khan\appdata\local\programs\python\python38\lib\site-packages (from requests<3.0,>=2.0->ibm-watson>=6.1.0) (3.4)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\touheed khan\appdata\local\programs\python\python38\lib\site-packages (from requests<3.0,>=2.0->ibm-watson>=6.1.0) (2022.9.24)
WARNING: You are using pip version 21.1.1; however, version 22.3 is available.
You should consider upgrading via the 'c:\users\touheed khan\appdata\local\programs\python\python38\python.exe -m pip install --upgrade pip' command.

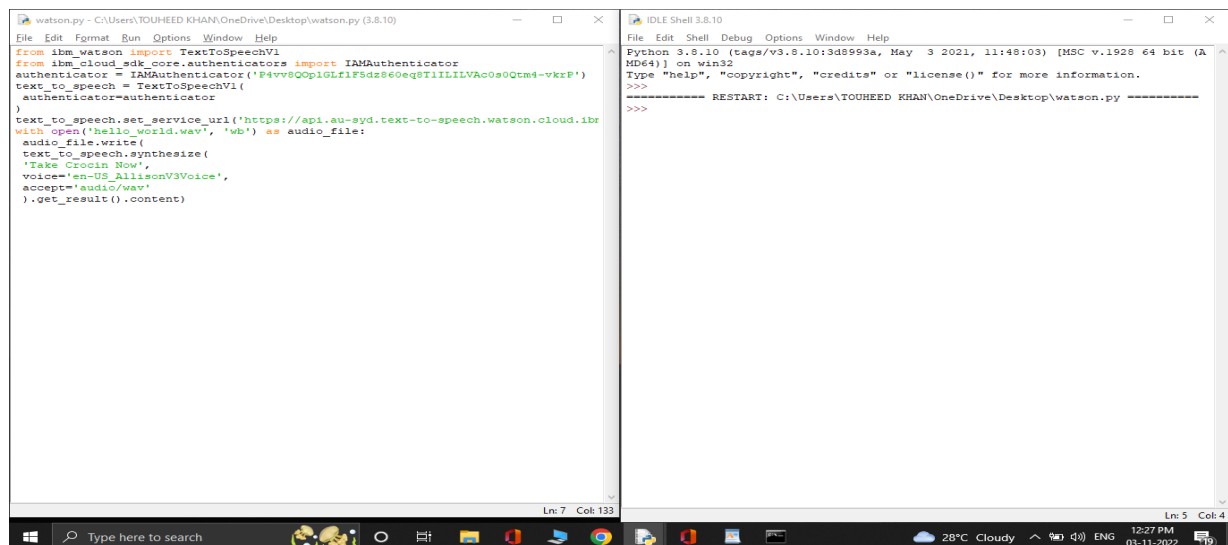
C:\Users\TOUHEED KHAN>
```

Service Creation Status & Credential Details:



STATUS : ACTIVE

Execution & Test Run of Program to Access TTS:



The screenshot displays a Python IDE with two windows. The left window, titled 'watson.py', contains the following Python code:

```
from ibm_watson import TextToSpeechV1
from ibm_cloud_sdk_core.authenticators import IAMAuthenticator
authenticator = IAMAuthenticator('P4vv8QOp1GLf1F5dz860eq8T111L1LVAc0s0QtM4-vkrP')
text_to_speech = TextToSpeechV1(
    authenticator=authenticator
)
text_to_speech.set_service_url('https://api.au-syd.text-to-speech.watson.cloud.ibm
with open('hello_world.wav', 'wb') as audio_file:
    audio_file.write(
        text_to_speech.synthesize(
            'Take CPython Now',
            voice='en-US_AllisonV3Voice',
            accept='audio/wav'
        ).get_result().content
    )
```

The right window, titled 'IDLE Shell 3.8.10', shows the output of the program execution:

```
Python 3.8.10 (tags/v3.8.10:3d8993a, May 3 2021, 11:48:03) [MSC v.1928 64 bit (A
MD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\TOUHEED KHAN\OneDrive\Desktop\watson.py =====
>>>
```

The Windows taskbar at the bottom shows the system clock as 12:27 PM on 03-11-2022, with a weather forecast of 28°C Cloudy.

RESULT : SUCCESSFULLY CREATED