

# 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"

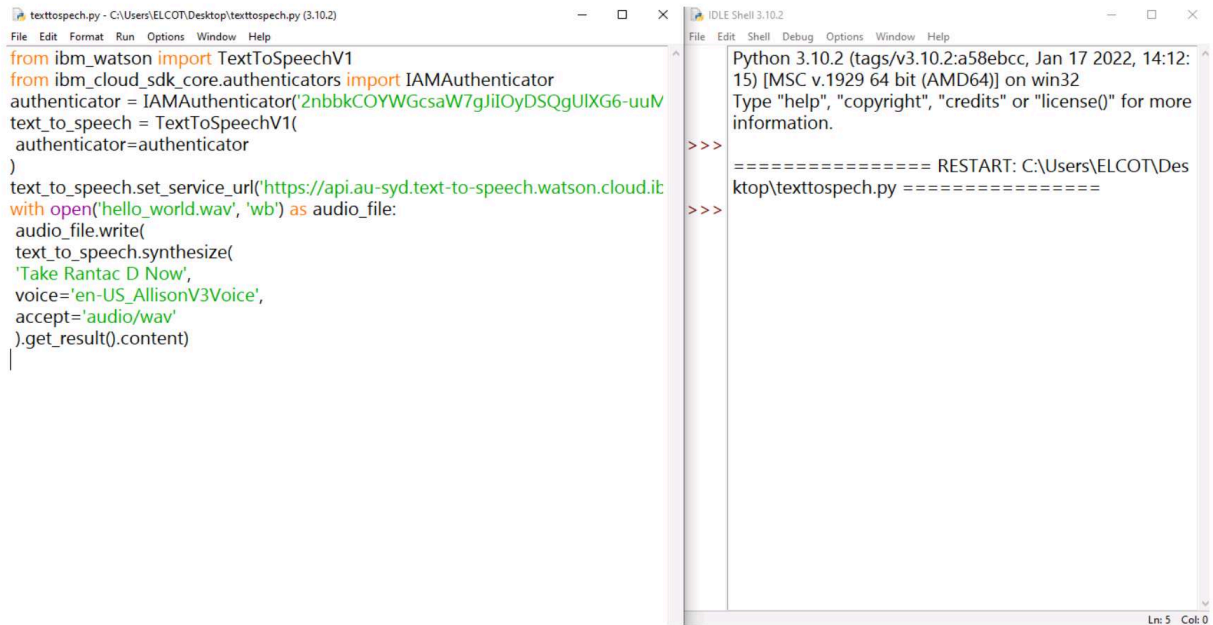
```
C:\Users\ELCOT>pip install --upgrade "ibm-watson">=6.1.0"
Requirement already satisfied: ibm-watson>=6.1.0 in c:\users\elcot\appdata\local\programs\python\python310\lib\site-packages (6.1.0)
Requirement already satisfied: websocket-client==1.1.0 in c:\users\elcot\appdata\local\programs\python\python310\lib\site-packages (from ibm-watson>=6.1.0) (1.1.0)
Requirement already satisfied: requests<3.0,>=2.0 in c:\users\elcot\appdata\local\programs\python\python310\lib\site-packages (from ibm-watson>=6.1.0) (2.28.1)
Requirement already satisfied: ibm-cloud-sdk-core==3.*,>=3.3.6 in c:\users\elcot\appdata\local\programs\python\python310\lib\site-packages (from ibm-watson>=6.1.0) (3.16.0)
Requirement already satisfied: python-dateutil>=2.5.3 in c:\users\elcot\appdata\local\programs\python\python310\lib\site-packages (from ibm-watson>=6.1.0) (2.8.2)
Requirement already satisfied: urllib3<2.0.0,>=1.26.0 in c:\users\elcot\appdata\local\programs\python\python310\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\elcot\appdata\local\programs\python\python310\lib\site-packages (from ibm-cloud-sdk-core==3.*,>=3.3.6->ibm-watson>=6.1.0) (2.5.0)
Requirement already satisfied: six>=1.5 in c:\users\elcot\appdata\local\programs\python\python310\lib\site-packages (from python-dateutil>=2.5.3->ibm-watson>=6.1.0) (1.16.0)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\elcot\appdata\local\programs\python\python310\lib\site-packages (from requests<3.0,>=2.0->ibm-watson>=6.1.0) (2022.9.24)
Requirement already satisfied: idna<4,>=2.5 in c:\users\elcot\appdata\local\programs\python\python310\lib\site-packages (from requests<3.0,>=2.0->ibm-watson>=6.1.0) (3.4)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\users\elcot\appdata\local\programs\python\python310\lib\site-packages (from requests<3.0,>=2.0->ibm-watson>=6.1.0) (2.1.1)
WARNING: You are using pip version 21.2.4; however, version 22.3 is available.
You should consider upgrading via the 'C:\Users\ELCOT\AppData\Local\Programs\Python\Python310\python.exe -m pip install --upgrade pip' command.
```

### Service Creation Status & Credential Details:

The screenshot displays the IBM Cloud console for the 'Text to Speech-a5' service. The service is in an 'Active' state. The left sidebar shows the 'Manage' section with options: 'Getting started', 'Service credentials', 'Plan', and 'Connections'. The main content area is divided into three sections: 'Start by viewing the tutorial' with a 'Getting started tutorial' button and 'API reference' link; 'Credentials' showing an 'API key' (redacted) and a 'URL' (https://api.au-syd.text-to-speech.watson.cloud.ibm.com/); and a 'Plan' section with 'Lite' and 'Upgrade' buttons.

**STATUS : ACTIVE**

## Execution & Test Run of Program to Access TTS:



The image shows a screenshot of a Python IDE with two windows. The left window, titled 'texttospech.py - C:\Users\ELCOT\Desktop\texttospech.py (3.10.2)', contains the following Python code:

```
from ibm_watson import TextToSpeechV1
from ibm_cloud_sdk_core.authenticators import IAMAuthenticator
authenticator = IAMAuthenticator('2nbbkCOYWGcsaW7gJlOyDSQgUIXG6-uuV')
text_to_speech = TextToSpeechV1(authenticator=authenticator)
text_to_speech.set_service_url('https://api.au-syd.text-to-speech.watson.cloud.ibm.com/tekton/texttospech.py')
with open('hello_world.wav', 'wb') as audio_file:
    audio_file.write(
        text_to_speech.synthesize(
            'Take Rantac D Now',
            voice='en-US_AllisonV3Voice',
            accept='audio/wav'
        ).get_result().content)

```

The right window, titled 'IDLE Shell 3.10.2', shows the output of the program execution:

```
Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more
information.
>>>
===== RESTART: C:\Users\ELCOT\Desktop\texttospech.py =====
>>>

```

The status bar at the bottom right of the shell window indicates 'Ln: 5 Col: 0'.

**RESULT : SUCCESSFULLY CREATED**