

SPRINT DELIVERY 3

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ESTABLISHING THE TEXT-TO-SPEECH SERVICE

1) INSTALLATION OF WATSON VERSION :

CODE:

Pip install—upgrade “ibm-watson>=6.1.0”

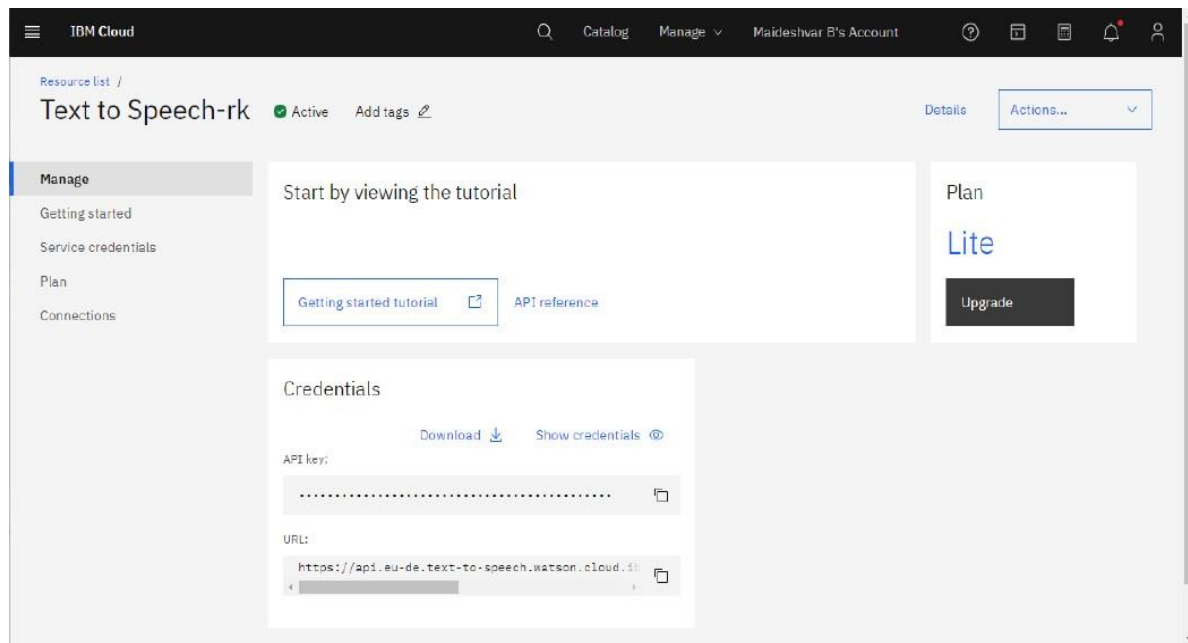
RESULTS :

```
Microsoft Windows [Version 10.0.19344.2110]
(c) Microsoft Corporation. All rights reserved.

C:\Users\lavanya> pip install --upgrade "ibm-watson>=6.1.0"
Collecting ibm-watson>=6.1.0
  Downloading ibm-watson-6.1.0.tar.gz (373 kB)
    Installing build dependencies ... done
    Setting requirements to build wheel ... done
    Preparing metadata (pyproject.toml) ... done
Collecting ibm-cloud-sdk-core>=1.9.0, <1.3.0
  Downloading ibm-cloud-sdk-core-1.26.0-py3-none-any.whl (81 kB)
Collecting python-dateutil>=2.5.3
  Downloading python-dateutil-2.8.2-py3-none-any.whl (247 kB)
Collecting websocket-client>=1.1.0
  Downloading websocket-client-1.6.0-py3-none-any.whl (58 kB)
Collecting requests>=2.5.0, <2.30.0
  Downloading requests-2.28.1-py3-none-any.whl (62 kB)
Collecting PyJWT>=2.0.0, <2.8.0
  Downloading PyJWT-2.8.0-py3-none-any.whl (20 kB)
Collecting urllib3>=1.25.11, <2.0.0
  Downloading urllib3-1.26.12-py3-none-any.whl (140 kB)
Collecting six>=1.5
  Using cached six-1.16.0-py3-none-any.whl (11 kB)
Collecting charset-normalizer>=2
  Downloading charset-normalizer-2.1.1-py3-none-any.whl (39 kB)
Collecting idna>=2.5
  Downloading idna-3.4-py3-none-any.whl (61 kB)
Collecting certifi>=2017.4.17
  Downloading certifi-2022.9.24-py3-none-any.whl (166 kB)
Building wheels for collected packages: ibm-watson
  Building wheel for ibm-watson (pyproject.toml) ... done
  Created wheel for ibm-watson: filename=ibm_watson-6.1.0-py3-none-any.whl size=178889 sha256=305091627ee0b0eadf05b010e08e692378545f675a1cf327b0c038041f
  Stored in directory: c:\users\lavanya\appdata\local\pip\cache\wheels\1f\69\43\1e30e076d135d14152ed76d450d160504f018305a8661
Successfully built ibm-watson
Installing collected packages: urllib3, six, idna, charset-normalizer, certifi, requests, python-dateutil, PyJWT, websocket-client, ibm-cloud-sdk-core, ibm-watson
Successfully installed PyJWT-2.8.0 certifi-2022.9.24 charset-normalizer-2.1.1 ibm-cloud-sdk-core-1.26.0 ibm-watson-6.1.0 idna-3.4 python-dateutil-2.8.2 requests-2.28.1 six-1.16.0 urllib3-1.26.12 websocket-client-1.6.0
WARNING: You are using pip version 21.3.1; however, version 22.1.1 is available.
You should consider upgrading via the 'c:\users\lavanya\appdata\local\programs\python\python\python.exe -m pip install --upgrade pip' command.

C:\Users\lavanya>
```

2) COPYING CREDENTIALS FOR API AND URL :



3) PROGRAM FOR ACCESSING APIs OF TTS SERVICE:

```
from ibm_watson import TextToSpeechV1 from
ibm_cloud_sdk_core.authenticators import
IAMAuthenticator authenticator =
IAMAuthenticator('7NcRcpMT221nhk1kB5DTsWpKGQgjKFkWka
7Ao1BU7zQ') text_to_speech = TextToSpeechV1(
authenticator=authenticator )
text_to_speech.set_service_url('https://api.eu-
gb.texttospeech.watson.cloud.ibm.com/instances/e7133289-
01464193-a7d5-b354d6831556') with open('para.wav', 'wb') as
audio_file: audio_file.write( text_to_speech.synthesize( 'its the
time to take paracetomal', voice='en-US_AllisonV3Voice',
accept='audio/wav' ).get_result().content)
EXECUTION AND RUN :
```

```
apifortts.py - C:/Users/lavanya/Desktop/its/apifortts.py (3.7.3)
File Edit Format Run Options Window Help
from lib_speech import TextToSpeechV1
from lib_cloud_sdk_core.authenticators import IAMAuthenticator
authenticator = IAMAuthenticator("78-8cpMYJ22lnh1kU5D5wP2-22q10Fw8aTAu1B0T2g")
text_to_speech = TextToSpeechV1(
    authenticator=authenticator
)
text_to_speech.set_f
with open('para.wav'
audio_file.write(
text_to_speech.syn
'tts' the time to s
voice="en-US Allia
accept="audio/wav"
).get_result().ogg

Python 3.7.3 Shell
File Edit Shell Debug Options Window Help
Python 3.7.3 (tags/v3.7.3:efected12, Mar 25 2019, 20:22:05) [AMD64] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/lavanya/Desktop/its/apifortts.py =====
>>> |
```