



**CT UNIVERSITY, FEROZPUR ROAD
LUDHIANA.**

**SCHOOL OF MANAGEMENT STUDIES
DEPARTMENT OF BUSINESS
ADMINISTRATIONS**

Submitted To

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Artificial Intelligence

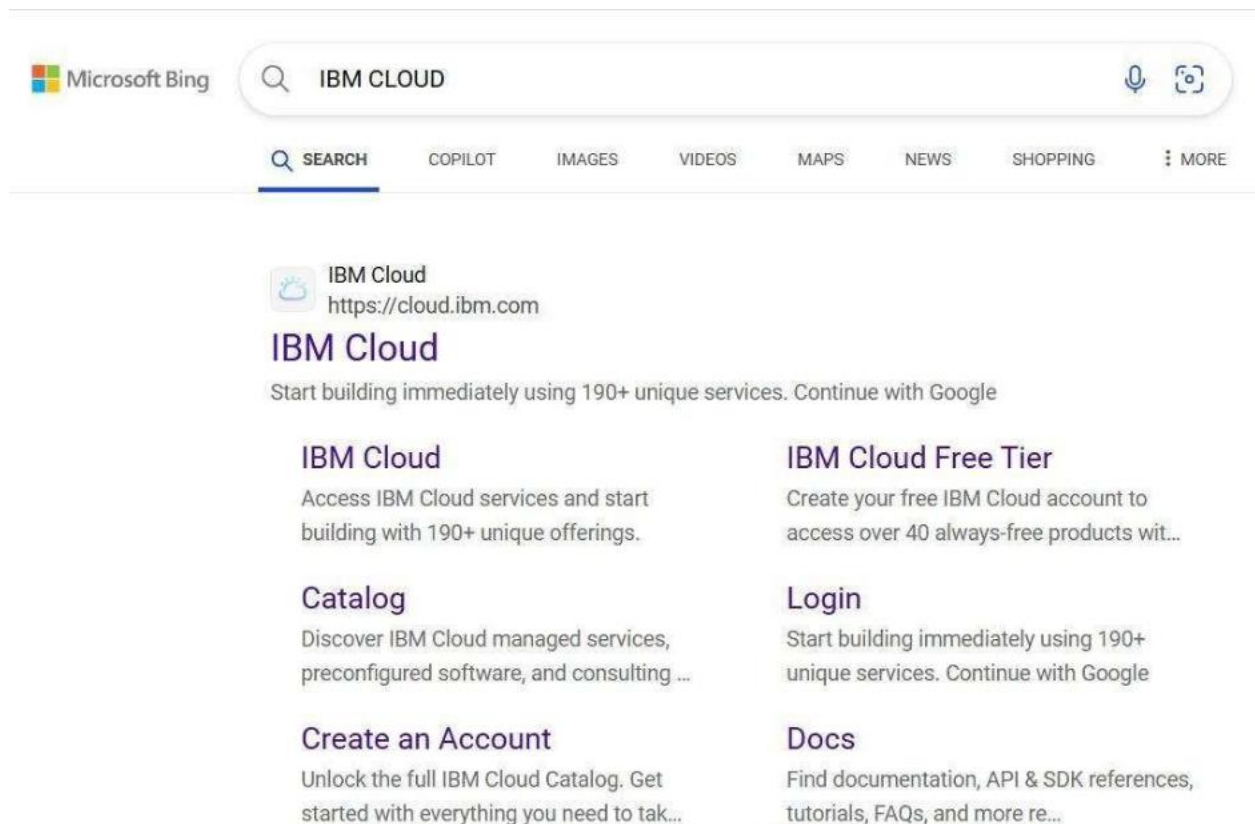
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PRACTICAL – 4


Objective: Create Speech to Text using IBM Cloud.

Step 1: Search for **IBM CLOUD** on a Web Browser.



Step 2: Login using your credentials.


IBM Cloud




Log in to IBM Cloud

Don't have an account? [Create an account](#)

Sign in with

IBMid 


username@example.com

Continue 

Forgot ID?

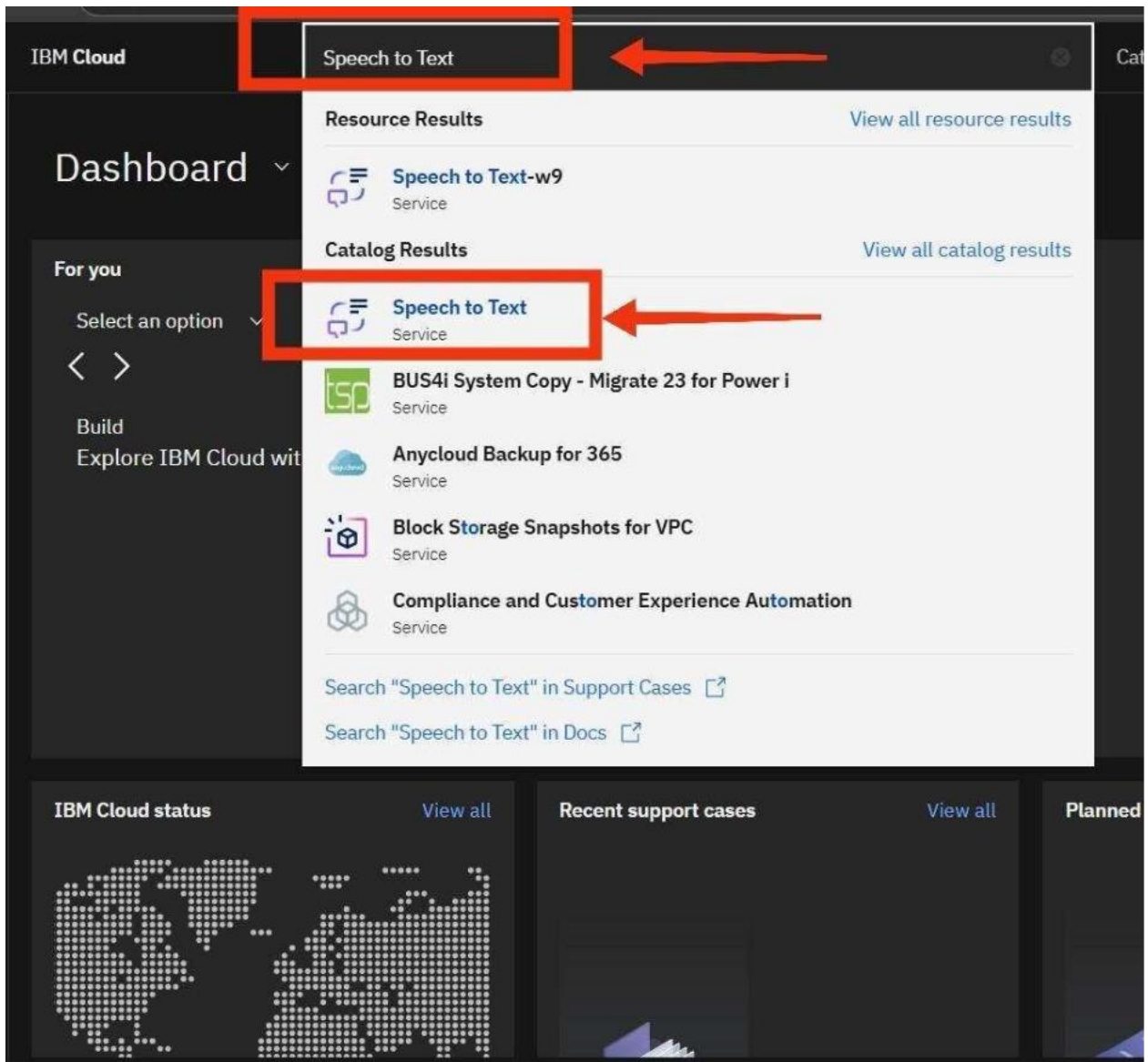
☐ Remember ID

Or

Continue with Google 

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Step 3: Search for Speech to Text in the search bar and click on it.



Step 4: Click on **view the existing instance** or if a new user checkmark the agreements box and click create.

Summary

Speech to Text

Free

Location: Sydney

Plan: Lite

Service name: Speech to Text-e9

Resource group: Default



Existing Lite plan instance



You can have only 1 Lite plan instance of this service per resource group. [Delete](#) your current Lite plan instance in

Default resource group to create

a new one, or [view the existing instance](#).



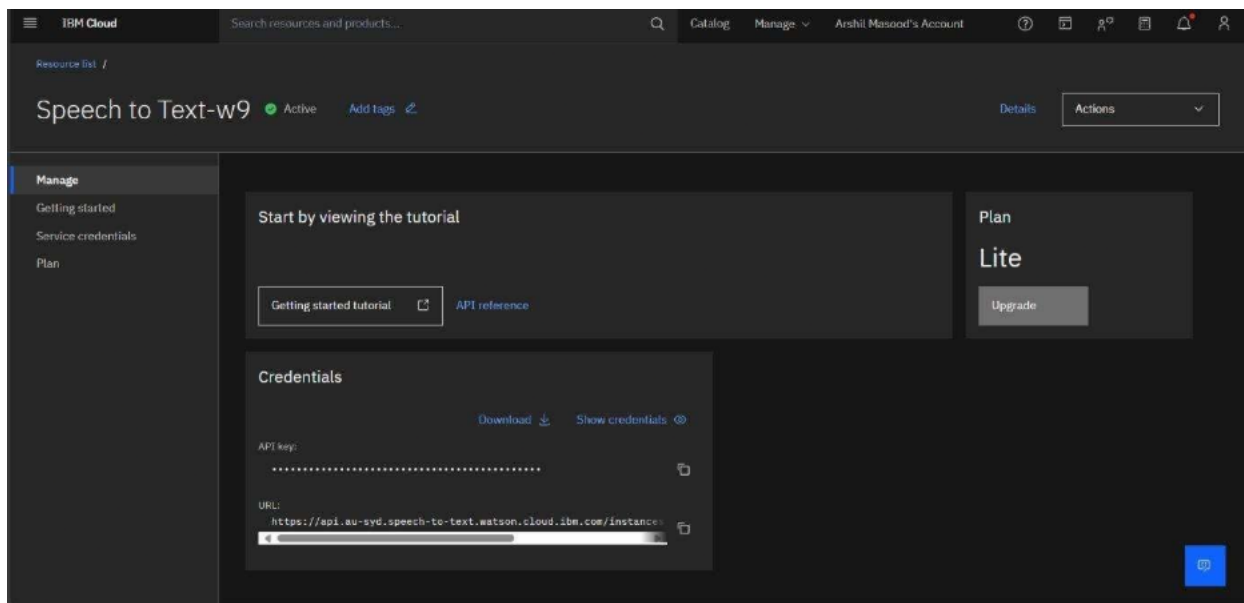
I have read and agree to the following license agreements:

[Terms](#)

Create

Add to estimate

Step 5: A Window like this will open.



Step 6: Click on **Getting started** and copy the first code snippet on Notepad.

```
IBM Cloud

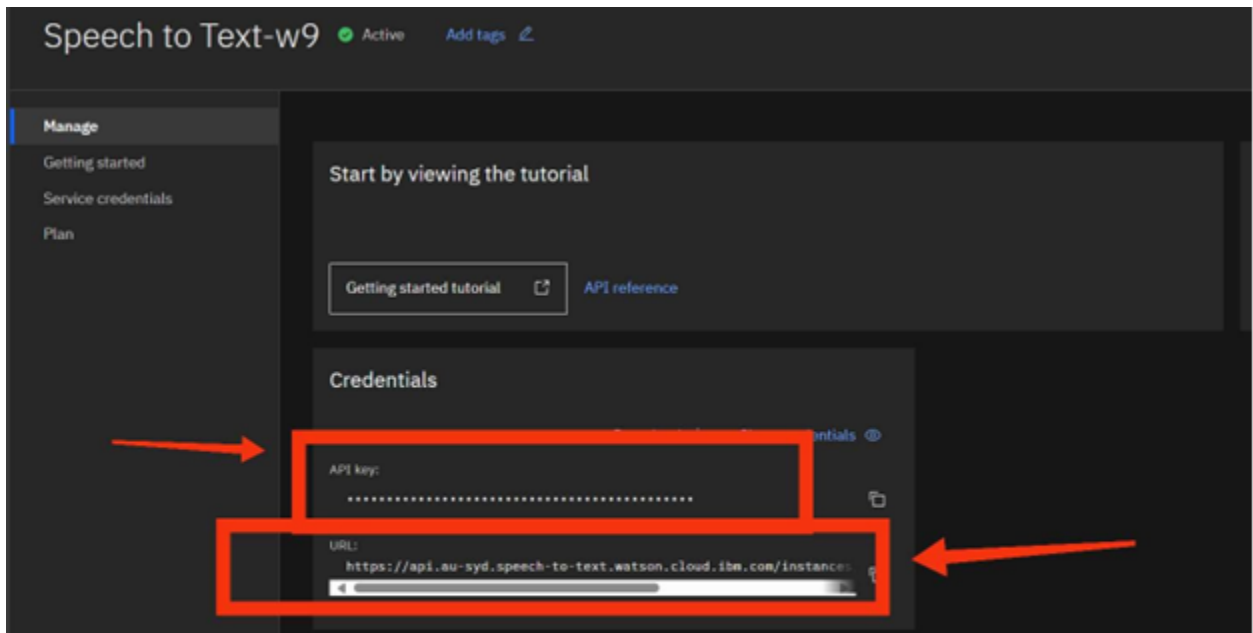
$ curl -X POST -u "apikey:{apikey}" \
--header "Content-Type: application/json" \
--header "Accept: audio/wav" \
--data "{\"text\":\"hello world\"}" \
--output hello_world.wav \
"{url}/v1/synthesize?voice=en-US_MichaelV3Voice"
```

```
Text to Speech(Practical -1).txt

File Edit View

curl -X POST -u "apikey:{apikey}" \
--header "Content-Type: application/json" \
--header "Accept: audio/wav" \
--data "{\"text\":\"hello world\"}" \
--output hello_world.wav \
"{url}/v1/synthesize?voice=en-US_MichaelV3Voice"
```

Step 7: Copy the **apikey** and **url** from the **Manage** section and paste it in Notepad.



```
for git Bash
curl -X POST -u "apikey:0GZ7FysS3CL8_UscHcmh6tCXrqC28ewX7KJL1_0u8hog" \
--header "Content-Type: audio/wav" \
--data-binary @C:/Users/pc/hello_world.wav \
"https://api.au-syd.speech-to-text.watson.cloud.ibm.com/instances/5082370b-8ad4-412a-8c9e-3d70afc6e10e/v1/recognize"
```

Step 8: Change the file type. Copy the path of the file, paste it in the place of {path_to_file}audio-file.flac and change the “\” of the file path into “/”.

For git bash:

```
MINGW64/c/Users/pc
pcrdesktop-CH304UV MINGW64 ~
$ curl -X POST -u "apikey:0GZ7FysS3CL8_UscHcmh6tCXrqC28ewX7KJL1_0u8hog" \
--header "Content-Type: audio/wav" \
--data-binary @C:/Users/pc/hello_world.wav \
"https://api.au-syd.speech-to-text.watson.cloud.ibm.com/instances/5082370b-8ad4-412a-8c9e-3d70afc6e10e/v1/recognize"
bash: $'\302\226\302\226curl': command not found

pcrdesktop-CH304UV MINGW64 ~
$ curl -X POST -u "apikey:0GZ7FysS3CL8_UscHcmh6tCXrqC28ewX7KJL1_0u8hog" \
--header "Content-Type: audio/wav" \
--data-binary @C:/Users/pc/hello_world.wav \
"https://api.au-syd.speech-to-text.watson.cloud.ibm.com/instances/5082370b-8ad4-412a-8c9e-3d70afc6e10e/v1/recognize"
```

OR

For cmd:

```
C:\Users\pc>curl -X POST -u "apikey:0GZ7Fys53CL8_UscHCmh6tCXrqC28ewX7K3L1_0u8H0G" ^
More? --header "Content-Type: audio/wav" ^
More? --data-binary @C:/Users/pc/hello_world.wav ^
More? "https://api.au-syd.speech-to-text.watson.cloud.ibm.com/instances/5082370b-8ad4-412a-8c9e-3d70afc6e10e/v1/recognize"
```

Changing all the ‘\’ (only those which are at the end of the sentences) to ‘^’.

After copying the code and running it on CMD.

Step 9: Hence Speech to Text using CMD is completed.

On git bash:

```
pc@DESKTOP-9H304UW: ~$ curl -X POST -u "apikey:0GZ7Fys53CL8_UscHCmh6tCXrqC28ewX7K3L1_0u8H0G" \
--header "Content-Type: audio/wav" \
--data-binary @C:/Users/pc/hello_world.wav \
"https://api.au-syd.speech-to-text.watson.cloud.ibm.com/instances/5082370b-8ad4-412a-8c9e-3d70afc6e10e/v1/recognize"
{
  "result_index": 0,
  "results": [
    {
      "final": true,
      "alternatives": [
        {
          "transcript": "hello world ",
          "confidence": 0.99
        }
      ]
    }
  ]
}
```

On cmd:-

```
C:\Users\pc>curl -X POST -u "apikey:0GZ7Fys53CL8_UscHcmh6tCXnqC28ehX7KJL1_0u8h0G" ^
More? --header "Content-Type: audio/wav" ^
More? --data-binary @C:/Users/pc/hello_world.wav ^
More? "https://api.au-syd.speech-to-text.watson.cloud.ibm.com/instances/5082370b-8ad4-412a-8c9e-3d70afc6e10e/v1/recognize"
{
  "result_index": 0,
  "results": [
    {
      "final": true,
      "alternatives": [
        {
          "transcript": "hello world ",
          "confidence": 0.99
        }
      ]
    }
  ]
}
C:\Users\pc>
C:\Users\pc>
```