

Effort: 15 mins

Objective

In this lab, you will learn:

0. IBM Speech to Text Service
1. IBM Language Translator Service

This is the instruction to create an instance of IBM Speech to Text, and IBM Language Translator. IBM Speech to Text is a service that converts speech in audio format into text. Watson Speech to Text is a service that uses deep learning algorithms to convert speech to text. IBM Language Translator converts one language to another.

NOTE: In order to complete this the lab in this section you will be creating an IBM Cloud account and create an instance of IBM Speech to Text and IBM Language Translator and obtain their respective API Keys. A credit card is NOT required to sign up for IBM Cloud Lite account and there is no charge associated in creating a Lite plan instance of the Watson VR service.

Step 1: Create an IBM Cloud Account

Click on the link below to create an IBM cloud account:

[Sign Up for IBM Cloud](#)

On the page to which you get redirected by clicking on the link above, enter your email address, first name, last name, country or region, and set your password.

NOTE: To get enhanced benefits, please sign up with you company email address rather than a free email ID like Gmail, Hotmail, etc.

If you would like IBM to contact you for any changes to services or new offerings, then check the box to accept the box to get notified by email. Then click on the Create Account button to create your IBM Cloud account. **If you already have an IBM Cloud account you can just log in using the link above the Email field (top right in the screenshot below).

Sign up for an IBMid and create your IBM Cloud account

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yourname@mail.com

First Name*

your_firstname

Last Name*

your_lastname

Country or Region*

Canada

Password*

.....

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Create Account



Step 2: Confirm Your Email Address

An email is sent to your email address to confirm your account.



Thanks!

To complete your registration, check your email.

Can't find the email? [Resend](#)

Go to your email account, and click on the **Confirm Account** link in the email that was sent to you.

Hello your_firstname,

Thank you for signing up for IBM Cloud! Confirm your account to get started.

[Confirm Account](#)

By confirming your account, you accept the [Terms of Use](#)

Welcome and happy building!

—

Thank you,

IBM Cloud

Step 3: Login to Your Account



Success!

You successfully signed up for an IBM Cloud account and it is now activated.

Log in

When you click [Log in](#), you will be redirected to a page to log into your IBM Cloud account.

Log in to IBM

Don't have an IBMid?

[Create an account](#)

[Log in with your company
credentials \(SSO\)](#)

Need help? [Contact the IBM Help Desk](#)

IBMid

[Forgot IBMid?](#)

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Password

[Forgot password?](#)

.....



☐ Remember me [i](#)

Log in

Step 4: Create a Speech to Text Instance

To create a speech to text instance click [Speech to Text](#)

On the next page, you will get to name your service instance and choose your region. Click on the arrow to reveal the drop-down menu of regions. Make sure to select the region that is closest to you. Since I am located in Canada, then I am choosing Dallas as my region since it is the closest region to me.

IBM Cloud

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Speech to Text

Lite • IBM

The Speech to Text service converts the human voice into the written word. It can be used anywhere there is a need to bridge the gap between the spoken word and their written form, including voice control of embedded systems, transcription of meetings and conference calls, and dictation of email and notes. This easy-to-use service uses machine intelligence to combine information about grammar and language structure with knowledge of the composition of the audio signal to generate an accurate transcription. The following languages and features are currently available:

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[View API Docs](#)

[Terms](#)

AUTHOR

IBM

PUBLISHED

06/28/2019

TYPE

Service

Service name:

Speech to Text-n6

Choose a region/location to deploy in:

Dallas

Select a resource group:

Default

Tags:

Examples: env:dev, version-1

Features

Available Languages

English (US), English (UK), Japanese, Arabic (MSA, Broadband model only), Mandarin, Portuguese (Brazil), Spanish, French (Broadband model only), Korean

Mobile SDKs (BETA)

Mobile SDKs are now available to enable native interaction on iOS and Android devices.

Metadata

Receive a metadata object in the JSON response that includes confidence score (per word), start/end time (per word), and alternate hypotheses / N-Best (per phrase). A new option for returning word alternatives per (sequential) time intervals is now available.

Keyword Spotting (BETA)

Optional ability to search for one or more keywords in the audio stream. The returned metadata includes the beginning time, end time and confidence score for each instance of the keyword found

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Then scroll down and make sure that the **lite** plan is selected, and click the **Create** button.

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iOS and Android devices.

stream. The returned metadata includes the beginning time, end time and confidence score for each instance of the keyword found. Keyword Spotting is currently available at no additional charge.

SoftBank

A localized version of this Watson service is available in Japan. Visit the following link for details: <http://www.softbank.jp/biz/watson>

Pricing Plans

Monthly prices shown are for country or region: [United States](#)

PLAN	FEATURES	PRICING
✓ Lite	500 Minutes per Month	Free
The Lite plan gets you started with 500 minutes per month at no cost. When you upgrade to a paid plan, you will get access to Customization capabilities.		
Lite plan services are deleted after 30 days of inactivity.		
Standard	Standard Minutes Multi-Tiered	Expand each section to view details
Premium	Everything in Standard plus... Usage and Training Data is Private + Stored in an Isolated Environment High Availability and Service Level Uptime Guarantee Single Tenant Environment Mutual Authentication	

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Step 5: Save your Speech to Text API Key

Go to **Manage**, then save your Speech to Text **API Key**, and **URL** you will need it for the labs in this section.

The screenshot shows the IBM Cloud console interface. On the left sidebar, the 'Manage' tab is selected and highlighted with a red box. The main content area displays the 'Speech to Text-n6' service details. Under the 'Credentials' section, the 'API Key' and 'URL' fields are highlighted with red boxes. The API Key is a masked string of dots, and the URL is 'https://stream.watsonplatform.net/speech-to-text/api'. The 'Plan' is set to 'Lite'.

Step 6: Create a Language Translator Instance

To create a translation instance click [Language Translator](#)

On the next page, you will get to name your service instance and choose your region. Click on the arrow to reveal the drop-down menu of regions. Make sure to select the region that is closest to you. Since I am located in Canada, then I am choosing Dallas as my region since it is the closest region to me.

The screenshot shows the IBM Cloud console interface for the 'Language Translator' service. The 'Service name' field is set to 'Language Translator-be'. The 'Choose a region/location to deploy in' dropdown menu is set to 'Dallas'. The 'Select a resource group' dropdown menu is set to 'Default'. The 'Tags' field is empty. The 'Create' button is visible at the bottom right. The page also includes a description of the service, a list of supported languages, and a 'Features' section.

Then scroll down and make sure that the **lite** plan is selected, and click the **Create** button.

IBM Cloud

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allowing for nuanced translations.

- Document Translator (Beta)**
Translate documents from one language to another while preserving file formatting and type. Supported file types include: MS Office, Open Office, PDF, HTML, JSON, TXT & and XML

Pricing Plans

Monthly prices shown are for country or region: [United States](#)

PLAN	FEATURES	PRICING
✓ Lite	1,000,000 Characters per Month	Free
The Lite plan gets you started with 1,000,000 characters per month at no cost and includes the default translation models. When you upgrade to a paid plan, you can create custom models. Lite plan services are deleted after 30 days of inactivity.		
Standard	Standard Translations (First 250,000 characters are free)	\$0.02 USD/THOUSAND CHAR
Advanced	Standard Translations Custom Translations Custom Model Maintenance (Pro-Rated Daily)	\$0.02 USD/THOUSAND CHAR \$0.10 USD/THOUSAND

Need Help?
[Contact IBM Cloud Support](#)

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FEEDBACK

Step 7: Save your Language Translator API Key

Go to **Manage**, then save your Language Translator **API Key**, and **URL** you will need it for the labs in this section.

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Manage

Getting startedService credentialsPlanConnections

Resource list /

Language Translator-be

Resource group: Default Location: Dallas [Add Tags](#)

Get started with the service.

Plan: Lite [Upgrade](#)

Getting started tutorial [API reference](#)

Credentials

[Download](#) [Show Credentials](#)

API Key:

.....

URL:

https://gateway.watsonplatform.net/language-translator/api

Author(s)

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Change log

Date	Version	Changed by	Change Description
2020-11-11	2.3	Malika Singla	Corrected the spell mistake
2020-10-05	2.2	Malika Singla	Added Effort & objective
2020-09-05	2.1	Malika Singla	Updated the screenshot
2020-08-25	2.0	Srishti	Migrated Lab to Markdown

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