

IBM Watson Translation



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GitHub - Abdelhakim-gh/IBM-Watson-Text-Translator-CC

Contribute to Abdelhakim-gh/IBM-Watson-Text-Translator-CC development by creating an account on GitHub.

<https://github.com/Abdelhakim-gh/IBM-Watson-Text-Translator-CC.git>

Abdelhakim-gh/**IBM-Watson-Text-Translator-...**



Ax 1 Contributor 0 Issues ⭐ 1 Star 0 Forks

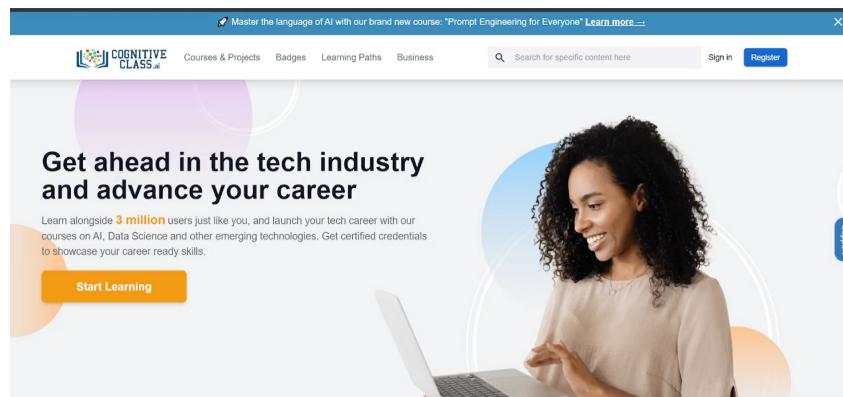


IBM Watson Text Translation Service offers multilingual support, including customization for specific needs. It utilizes Neural Machine Translation (NMT) for accurate and fluent translations. With a RESTful API, developers can seamlessly integrate translation capabilities into their applications.

Create account for free

1. get a free sign up code for [IBM Watson](#)
 - <https://cognitiveclass.ai/>

2. click [register](#) & fill the information



3. Sign in

4. Search for: **IBM introduction to cloud**

Courses (1)

Introduction to Cloud
cloud computing

Beginner Course

64.6k+ Enrolled 4.6 (5.1k+ Reviews)

6. Look in Module 1 for **Obtain IBM code**

Welcome

Module 1 - Overview of Cloud Computing

- Module Introduction and Objectives
- Video: Definition and Essential Characteristics of Cloud Computing (5:51)
- Video: History and Evolution of Cloud Computing (4:25)
- Video: Key Considerations for Cloud Computing (5:01)
- Video: Key Cloud Service Providers and Their Services (6:32)
- Obtain an IBM Cloud Feature Code**
- Hands-on Lab: Create a Cloud Account (Lite)
- Reading: Module Summary
- Graded Quiz (3 Questions)



5. Enroll in Course

Introduction to Cloud

This course introduces you to the core concepts of cloud computing. You will gain the foundational knowledge required for understanding cloud computing from both business a... [Continue reading](#)

Course | Cloud Computing | 64.6k+ Enrolled | ★ 4.6 (5.1k+ Reviews)

[Enroll Now](#)

7. Get the code & save it somewhere

Feature Code (External resource)

[Open Trial](#)

- <https://cloud.ibm.com/registration>

Create an IBM Cloud account
Already have an IBM Cloud account? [Log in](#)

Account information

Email: Enter an email address.

Next →

Verify email
Personal information
Account notice

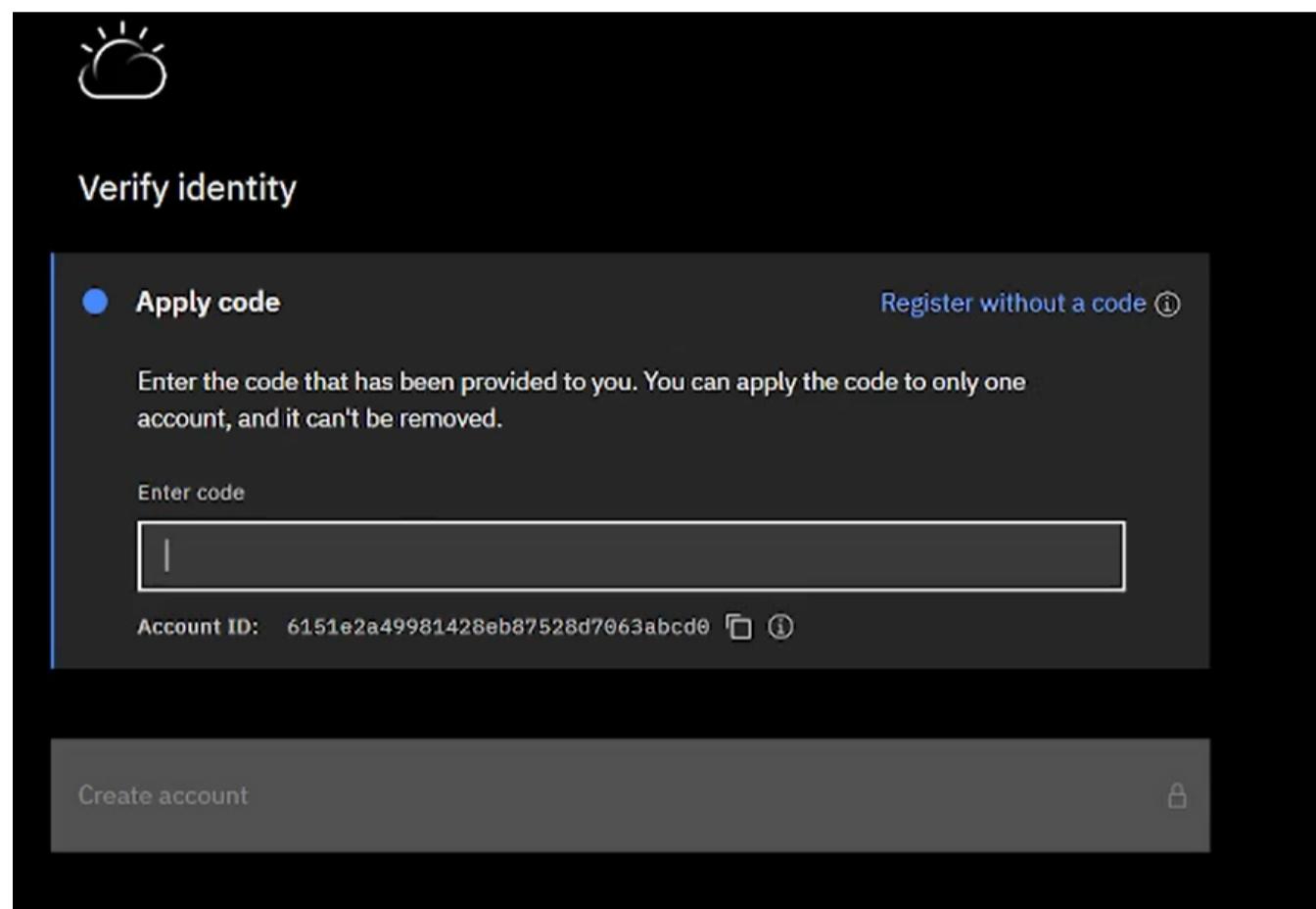
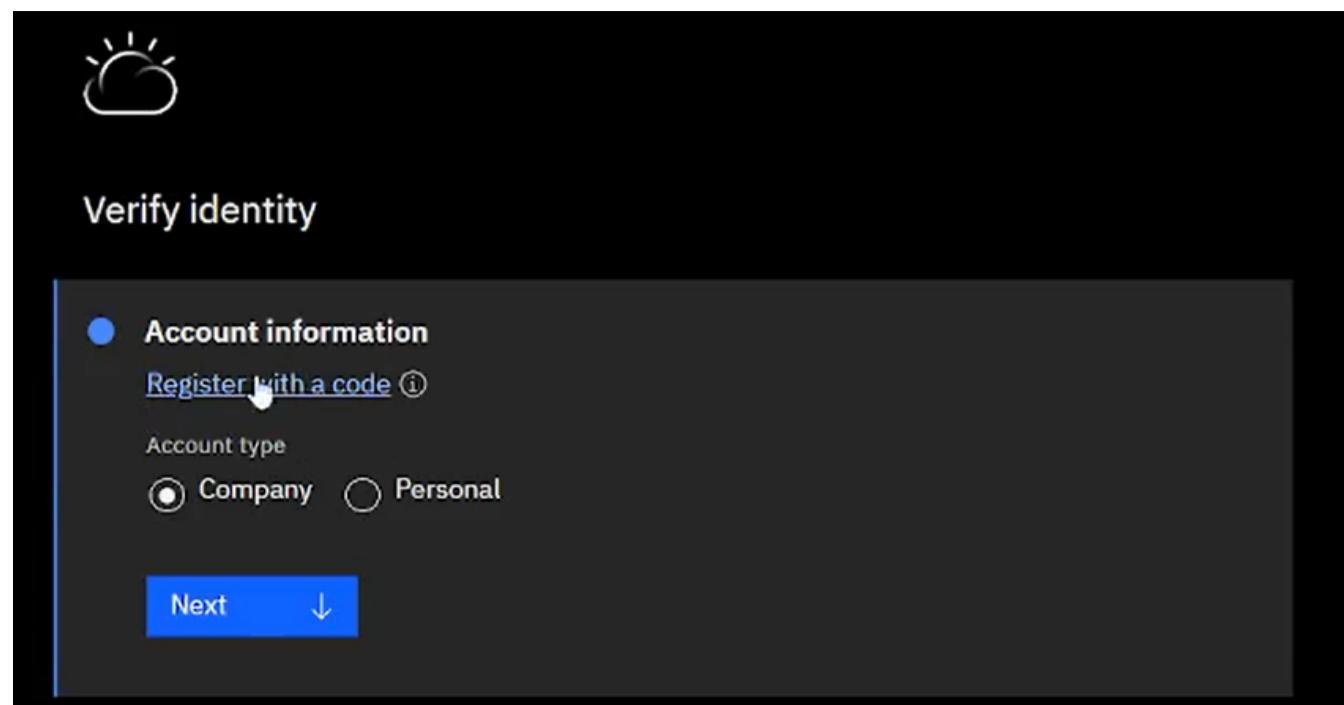
Continue →

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Explore always-free products
Including IBM Watson® APIs. They never expire and you can't be charged for them—ever. Learn more: [www.ibm.com/cloud/free](#).

- after completing your account information, verifying your account and accepting the terms of use **you dont need to fill bank account since you have the IBM Watson code you can register using code**



Translation Service

- After login to your  account you'll see a Dashboard of IBM services suggestion

The screenshot shows the IBM Cloud dashboard. At the top, there's a search bar and navigation links for Catalog, Manage, and Account. Below the header, a sidebar on the left contains icons for different services. The main area is titled 'Dashboard' and features a 'For you' section with tiles for 'Build', 'Db2', 'Build with Watson', 'Use Watson Assistant', 'Visit the IBM Cloud catalog', and 'Use Watson Studio'. Below this, there are sections for 'News', 'Recent support cases', 'Planned maintenance', and 'IBM Cloud status'.

- in Search tab look for ***Language translator***

This screenshot shows a search results page for 'transla'. The search bar at the top has 'transla' typed into it. Below the search bar, it says '0 resource results found'. Under 'Catalog Results', there is a card for 'Language Translator Service' with a magnifying glass icon. To the right of the card, there is a link 'View all catalog results'. Below the card, there are two blue links: 'Search "transla" in Support Cases' and 'Search "transla" in Docs'.

- choose the free plan , agree on terms & click on create

This screenshot shows the pricing plan selection for the 'Language Translator' service. On the left, a table lists four plans: Lite, Standard, Advanced, and Premium. The 'Lite' plan is selected and highlighted in grey. It includes features like translating up to 1,000,000 characters per month, identifying up to 76 languages, and supporting 23 file types. The 'Pricing' column indicates it is 'Free'. A note below states: '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 Premium or Advanced plan, you can create custom models. Lite plan services are deleted after 30 days of inactivity.' A note at the bottom of the table says: 'Lite plan services are deleted after 30 days of inactivity.'

On the right, a 'Summary' panel shows the selected plan details: 'Language Translator' (Free), 'Location: Sydney', 'Plan: Lite', 'Service name: Language Translator-i4', and 'Resource group: Default'. There is also a checkbox for 'I have read and agree to the following license agreements:' followed by a 'Terms' link. At the bottom, there are 'Create' and 'Add to estimate' buttons.

- Now you should see your **API identifiers**, which you can either copy into the code or download and load into the file, the choice is yours.

The screenshot shows the 'Language Translator-i4' service page. On the left, there's a sidebar with 'Manage' sections for 'Getting started', 'Service credentials', and 'Plan'. The main area has a 'Start by viewing the tutorial' section with 'Getting started tutorial' and 'API reference' buttons. Below that is a 'Credentials' section with 'API key:' and 'URL' fields. The URL field contains the value: `https://api.au-syd.language-translator.watson.cloud.ibm.com/instances/`.

Implementation / consuming a service

for more information about api visite:

- <https://cloud.ibm.com/docs/language-translator>
- first we need to install lib

```
# for ibm watson tools
!py -m pip install ibm_watson
# for tikenter customization / themes
!py -m pip install ttkthemes
```

- translate function that will take input & translate it base on target Lang & you need to specify (**credentials**):
- `url`
- `api key`

```
def translate():
    source_lang = left_drag_drop.get()
    target_lang = right_drag_drop.get()
    text_to_translate = left_text.get("1.0", tk.END).strip()
()

    if text_to_translate:
        headers = {
            "Content-Type": "application/json",
            "Accept": "application/json"
        }
        url = <your-url>
        auth = ("apikey", <your-api-key>)
```

sample of languaged

Language	Language code
Arabic	ar
Korean	ko
Basque	eu
Latvian	lv
Bengali	bn
Lithuanian	lt
Bosnian	bs
Malay	ms
Bulgarian	bg
Malayalam	ml
Catalan	ca
Maltese	mt
Chinese (Simplified)	zh
Montenegrin	cnr
Chinese (Traditional)	zh-TW
Nepali	ne
Croatian	hr
Norwegian Bokmål	nb
Czech	cs
Polish	pl
Danish	da
Portuguese	pt

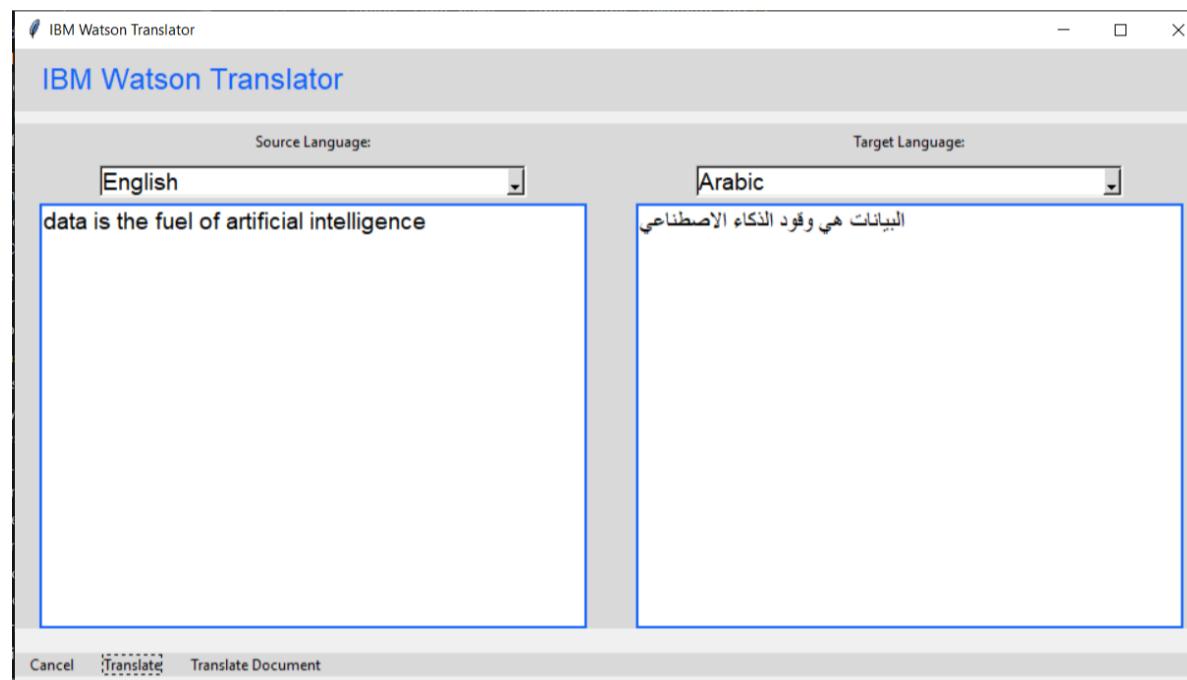
```

data = {
    "text": [text_to_translate],
    "source": source_lang,
    "target": target_lang
}

response = requests.post(url, headers=headers, auth=auth, json=data)
if response.status_code == 200:
    translated_text = response.json()["translations"][0]["translation"]
    right_text.delete("1.0", tk.END)
    right_text.insert(tk.END, translated_text)
else:
    right_text.delete("1.0", tk.END)
    right_text.insert(tk.END, "Error: Translation Failed")

```

Implementation of code



Language	Language code
Dutch	nl
Romanian	ro
English	en
Russian	ru
Estonian	et
Serbian	sr
Finnish	fi
Sinhala	si
French	fr
Slovak	sk
French (Canadian)	fr
Slovenian	sl
German	de
Spanish	es
Greek	el
Swedish	sv
Gujarati	gu
Tamil	ta
Hebrew	he
Telugu	te
Hindi	hi
Thai	th
Hungarian	hu
Turkish	tr
Irish	ga
Ukrainian	uk
Indonesian	id
Urdu	ur
Italian	it
Vietnamese	vi
Japanese	ja
Welsh	cy

