# Twitter Data Extractor User Manual

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## **Table of Contents**

Introduction	
Supported Features	
How to Setup	
Installing Dependencies	
Creating a Project on Google Cloud Platform for Google Sheets Usage	
MongoDB Installation	
How to Use	
Basic Usage	<u> </u>
Supported Arguments	
Example Commands	
Support	

#### Introduction

This command-line tool extracts user and tweet data from Twitter and reports the results to CSV, Excel, Google Sheets documents or MongoDB, SQLite databases.

## **Supported Features**

- Extract single/multiple user data.
- Extract user's friends/followers data.
- Extract tweets data for a user.
- Extract tweets data for a search keyword.
- Report results to CSV, Excel or Google Sheets documents.
- Report results to MongoDB or SQLite databases.

Basic package only contains results in the requested output file/database.

Premium package contains the source code and installation of the script on the user side. User of the tool should have the Twitter API access.

## **How to Setup**

## **Installing Dependencies**

Run the following commands to install required packages in the project directory.

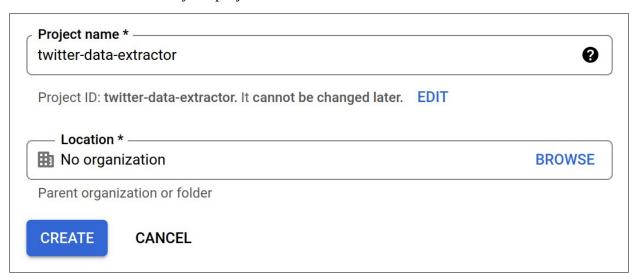
```
python -m venv env
source env/bin/activate
python -m pip install -r requirements.txt
```

## **Creating a Project on Google Cloud Platform for Google Sheets Usage**

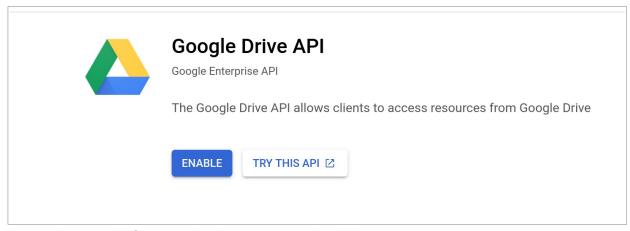
1. Go to <u>Google Developers Console</u> and create a new project (or select the one you already have).



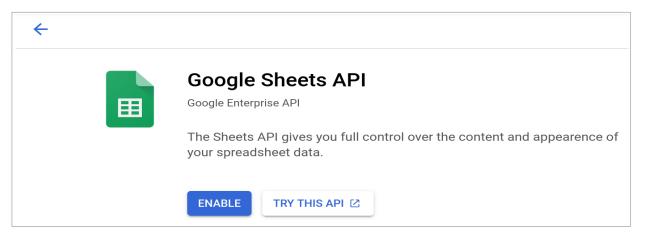
Write a name for your project and click the *CREATE* button.



2. Select APIs & Services → Library from the side menu. First search for "Google Drive API" and enable it.



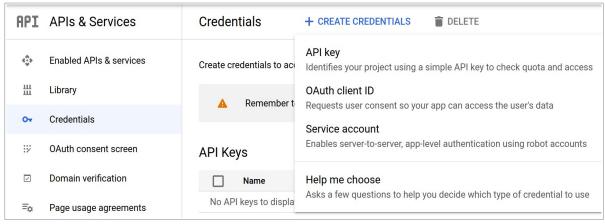
Then search for "Google Sheets API" and enable it.



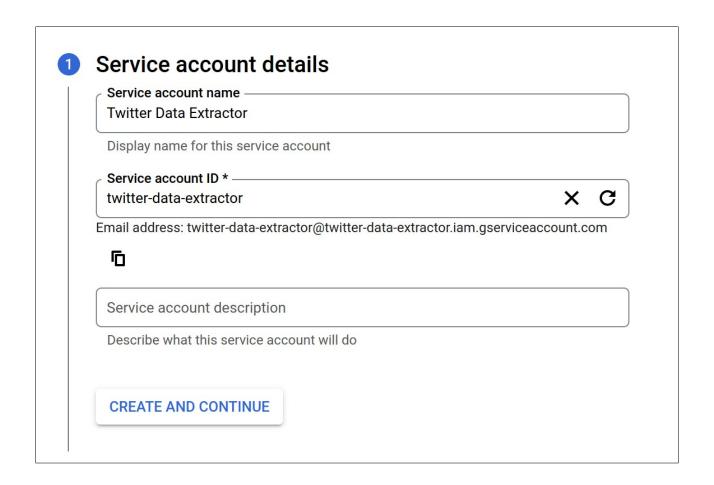
3. Create credentials for service account.

Since it's a separate account, by default it does not have access to any spreadsheet until you share it with this account. Just like any other Google account.

- 1. Go to APIs & Services → Credentials from the side menu.
- 2. Choose "CREATE CREDENTIALS > Service account".



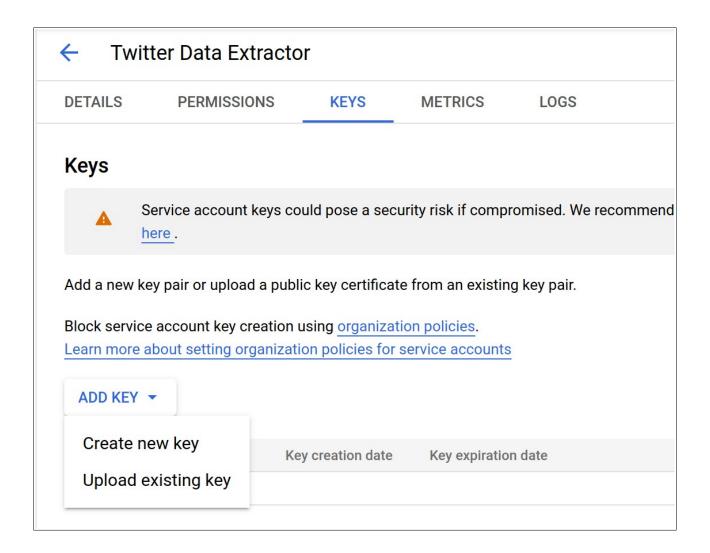
- 3. Fill out the form.
- 4. Click "CREATE AND CONTINUE" and "DONE".



5. Click on the email link under Service Accounts section.



6. Go to KEYS tab and select "Create new key" from "ADD KEY" drop down menu.



7. Select JSON from the popup menu and click CREATE.

## Create private key for "Twitter Data Extractor"

Downloads a file that contains the private key. Store the file securely because this key can't be recovered if lost.

#### Key type



JSON

Recommended

O P12

For backward compatibility with code using the P12 format

CANCEL **CREATE** 

8. JSON file with credentials will be downloaded automatically. It may look like this

```
"type": "service account",
"project_id": "twitter-data-extractor",
"private_key_id": "5f4...f6a",
"private_key": "-----BEGIN PRIVATE KEY-----\nMIIEvQIBADANBgkqhkiG9w0BAQEFAASCBKcwg
"client email": "twitter-data-extractor@twitter-data-extractor.iam.gserviceaccount
"client id": "102...063",
"auth_uri": "https://accounts.google.com/o/oauth2/auth",
"token_uri": "https://oauth2.googleapis.com/token",
"auth_provider_x509_cert_url": "https://www.googleapis.com/oauth2/v1/certs",
"client x509 cert url": "https://www.googleapis.com/robot/v1/metadata/x509/twitter
```

4. Rename the downloaded file as "credentials.json" and copy it to the project directory.

#### MongoDB Installation

If you will use MongoDB to save users/tweets data, install it from here.

You can check the running status after installation and start the database server with the following commands on Linux.

```
sudo service mongod status
sudo service mongod start
```

## **How to Use**

## **Basic Usage**

The following commands are a few examples of getting user data, user's friends, tweets or tweets of a given keyword.

```
python twitter_data_extractor.py -u gvanrossum
python twitter_data_extractor.py --forme -ul "gvanrossum, nedbat"
python twitter_data_extractor.py -u gvanrossum -fr
python twitter_data_extractor.py --forme -u gvanrossum -ut
python twitter_data_extractor.py -s python
```

Results are written to *results.xlsx* file by default. Logs can be seen in the *tw\_extractor.log* file in the project directory.

## **Supported Arguments**

Short Argument	Long Argument	Description	Default Value
-h	help	Show help message and exit.	
-C	useconfig	Read configuration from json file.	False
-cf	configfile	Read configuration from given json file.	config.json
-	forme	Determine API user (account owner or on behalf of a user)	False
-u	user	Extract user data for the given username	
-ul	users	Extract user data for the given comma separated usernames	
-fr	friends	Extract friends data for the given username	False
-fl	followers	Extract followers data for the given username	False
-ut	user_tweets	Extract tweets of user with the given username	False
-S	search	Extract latest tweets for the given search keyword	

-tc	tweet_count	Limit the number of tweets gathered	20
-е	excludes	Fields to exclude from tweets queried as comma separated values (replies,retweets)	retweets
-ot	output_type	Output file type (csv, xlsx, gsheets, mongodb or sqlite)	xlsx
-of	output_file	Output file name	results.xlsx
-sm	share_mail	Mail address to share Google Sheets document	

**TODO**: add config file usage explanations

## **Example Commands**

## **Support**

If you need support, you can contact me by emailing to <a href="mailto:codenineeight@gmail.com">codenineeight@gmail.com</a> with the "twitter\_data\_extractor" prefix in the subject. You can also see my Upwork profile <a href="mailto:here">here</a>.