



# How to Brute Force ZIP File Passwords in Python

Learn how to brute force zip file passwords using dictionary attack using the built-in zipfile module.

 [Abdou Rockikz](#) ·  4 min read · Updated Dec 2020 ·  22K · [Ethical Hacking](#)



/usr/share/wordlists/rockyou.txt.gz path. Otherwise, you can download it [here](#).

You can also [use crunch tool to generate your custom wordlist](#) as you exactly specify.

**Related:** [How to Crack PDF Files in Python](#).

Open up a new Python file and follow along:

```
import zipfile
from tqdm import tqdm
```

Let's specify our target zip file along with the word list path:

```
# the password list path you want to use, must be available in the current directory
wordlist = "rockyou.txt"
# the zip file you want to crack its password
zip_file = "secret.zip"
```

To read the zip file in Python, we use the `zipfile.ZipFile` class that has methods to open, read, write, close, list and extract zip files (we will only use `extractall()` method here):

```
# initialize the Zip File object
zip_file = zipfile.ZipFile(zip_file)
# count the number of words in this wordlist
n_words = len(list(open(wordlist, "rb")))
# print the total number of passwords
print("Total passwords to test:", n_words)
```

```
try:
    zip_file.extractall(pwd=word.strip())
except:
    continue
else:
    print("[+] Password found:", word.decode().strip())
    exit(0)
print("[!] Password not found, try other wordlist.")
```

Since wordlist now is a Python generator, using `tqdm` won't give much progress information, that's why I introduced the `total` parameter to give `tqdm` the insight on how many words are in the file.

We open the wordlist and read it word by word and tries it as a password to extract the zip file, reading the entire line will come with the new line character, as a result, we use the `strip()` method to remove white spaces.

The method `extractall()` will raise an exception whenever the password is incorrect, so we can pass to the next password in that case, otherwise, we print the correct password and exit out of the program.

I have edited the code a little to accept the zip and wordlist files from command line arguments, check it [here](#).

Check my result:

```
root@rockikz:~# gunzip /usr/share/wordlists/rockyou.txt.gz
root@rockikz:~# python3 zip_cracker.py secret.zip /usr/share/wordlists/rockyou.txt
Total passwords to test: 14344395
 3%|█                               | 435977/14344395 [01:15<40:55, 5665.23word/s]
[+] Password found: abcdef12345
```

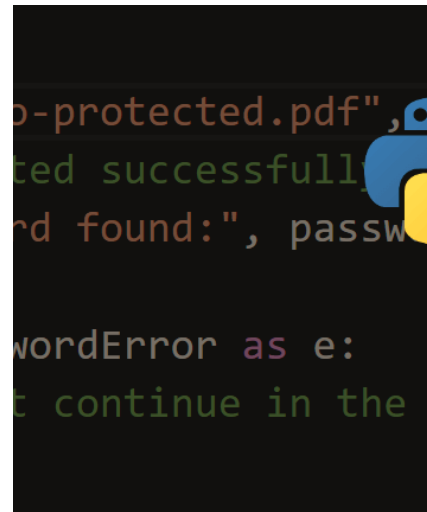
**Read also:** [How to Brute Force FTP Servers in Python.](#)

Happy Cracking ♥

[🔗 VIEW FULL CODE](#)

Sharing is caring!

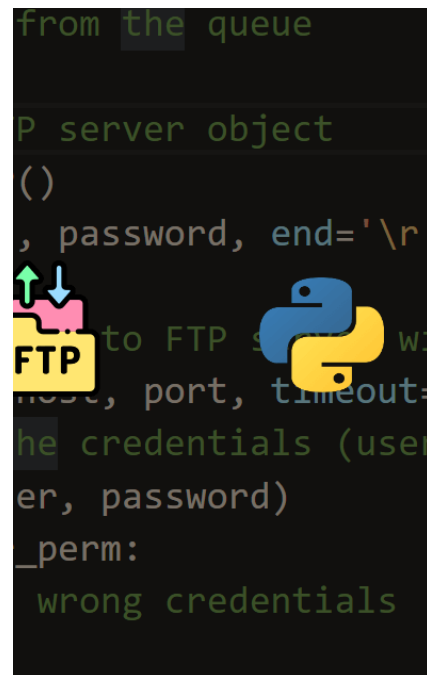




## How to Brute Force FTP Servers in Python

Learning how to crack FTP servers using dictionary attack (brute-forcing with a wordlist) with the help of ftplib module in Python.

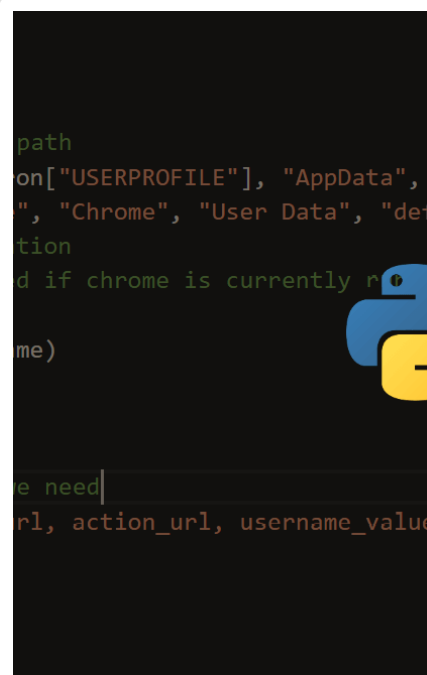
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