

Password Security

Code Used To Crack Zip File

```
import zipfile
import string
import time

# Zipfile password cracker using a dictionary attack

def crack(zipfilename,dictionary):

    password = None
    i=0
    zip_file = zipfile.ZipFile(zipfilename)

    #Try a dictionary attack

    with open(dictionary, 'r') as f:
        for line in f.readlines():
            password_string = line.strip('\n')
            try:
                password = bytes(password_string, 'utf-8')
                if (i%10000 == 0):
                    print(time.time(), i, password_string)
                i=i+1
                zip_file.extractall(pwd=password)
                print('Password found : %s' %password_string)
                return
            except:
                pass

    print('No password found.\n')
    return

if __name__ == "__main__":
    crack('msftedll-update22082019134451.zip', 'HugeWordList.txt')
```

My Code At Work

```
C:\WINDOWS\system32\cmd.exe
1585498061.1063137 90000 amalgamacio`n
1585498064.3555474 100000 ampliavamo
1585498067.636023 110000 anestesiar
1585498070.7915287 120000 annodavano
1585498074.087624 130000 antise'mitisme
1585498077.3056169 140000 apple jacks
1585498080.4611545 150000 arctique
1585498083.6478705 160000 arrangiati
1585498086.9284027 170000 asiabeat
1585498090.1307163 180000 athecae
1585498093.301843 190000 aufschiebendem
1585498096.47297 200000 Automat1
1585498099.7534447 210000 ayeshia
1585498102.9714925 220000 bagette
1585498106.2303207 230000 bangeter
1585498109.6146393 240000 basellandschaft
1585498112.794465 250000 bdmust
1585498116.047318 260000 begj{rte
1585498119.2340662 270000 benassha
1585498122.3896263 280000 berthema
1585498125.5763178 290000 beverlyne
1585498128.7786882 300000 bijbleven
1585498131.934227 310000 bitblk
1585498135.1678073 320000 blogge
1585498138.4170759 330000 bokhee
1585498141.838107 340000 bosidar
1585498144.899918 350000 brairding
1585498147.9929051 360000 brimicam
1585498151.2734163 370000 brzenski
1585498154.5226161 380000 bunsikan
1585498157.7250178 390000 C-Ko
1585498160.864868 400000 callbeck
1585498164.2078662 410000 capernaitish
1585498167.3946126 420000 carroccio
1585498170.550118 430000 cawing
1585498173.7445586 440000 centillions
1585498177.0094135 450000 chalifouxnyzio
1585498180.211783 460000 cheap/not
1585498183.4141874 470000 chima
1585498186.585334 480000 Christchurch
1585498189.7564385 490000 sincere
Password found : sincere
```

The 50 Most Used Passwords

1. 123456	11. 123123	21. mustang	31. 7777777	41. harley
2. password	12. baseball	22. 666666	32. f*cky*u	42. zxcvbnm
3. 12345678	13. abc123	23. qwertyuiop	33. qazwsx	43. asdfgh
4. qwerty	14. football	24. 123321	34. jordan	44. buster
5. 123456789	15. monkey	25. 1234...890	35. jennifer	45. andrew
6. 12345	16. letmein	26. p*s*y	36. 123qwe	46. batman
7. 1234	17. shadow	27. superman	37. 121212	47. soccer
8. 111111	18. master	28. 270	38. killer	48. tigger
9. 1234567	19. 696969	29. 654321	39. trustno1	49. charlie
10. dragon	20. michael	30. 1qaz2wsx	40. hunter	50. robert

How to Make a Password More Secure

HOW TO CHOOSE A SECURE PASSWORD?

- HAS AT LEAST 10 CHARACTERS;
- HAS UPPERCASE LETTERS;
- HAS LOWERCASE LETTERS;
- HAS NUMBERS;
- HAS SYMBOLS, SUCH AS ` ! " ? \$ % ^ & * () _ - + = } [{ ; : @ ' ~ # | \ < , > . ? /
- IS NOT LIKE YOUR PREVIOUS PASSWORDS;
- IS NOT YOUR NAME;
- IS NOT YOUR LOGIN;
- IS NOT YOUR FRIEND'S NAME;
- IS NOT YOUR FAMILY MEMBER'S NAME;
- IS NOT A DICTIONARY WORD, SUCH AS APPLE, MYCAR
- IS NOT A COMMON NAME, SUCH AS SUPERMAN, BATMAN
- IS NOT A KEYBOARD PATTERN, SUCH AS QWERTY, ASDFGHJKL, OR 12345678.

Two Factor Authentication

