

Ejercicio Hashing

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```
import hashlib

def sha1_hash(text):
    return hashlib.sha1(text.encode()).hexdigest()

with open('target_hashes.txt', 'r') as file:
    target_hashes = set(file.read().splitlines())

with open('words.txt', 'r') as file:
    dictionary_words = file.read().splitlines()

with open('realhuman_phill.txt', 'r', encoding='latin-1') as file:
    dictionary_words2 = file.read().splitlines()

cracked_passwords = {}

def try_decrypt(words):
    for word in words:
        for mutation in [word, word.capitalize(), word + '123', word.replace('a', '4').replace('4', 'a')]:
            word_hash = sha1_hash(mutation)
            if word_hash in target_hashes and word_hash not in cracked_passwords:
                cracked_passwords[word_hash] = mutation

try_decrypt(dictionary_words)
try_decrypt(dictionary_words2)

if cracked_passwords:
    print("Contraseñas descifradas:")
    for hash, password in cracked_passwords.items():
        print(f'Hash: {hash} - Password: {password}')
else:
    print("No se descifraron contraseñas.")
```

Hash: 32d10c7b8cf96570ca04ce37f2a19d84240d3a89 - Password: abcdefghijklmnopqrstuvwxyz

Hash: 264bc0768362a68984faea923efaa21f67f4d10a - Password: P4ssw0rd

Contraseñas descifradas:

Hash: 32d10c7b8cf96570ca04ce37f2a19d84240d3a89 - Password: abcdefghijklmnopqrstuvwxyz

Hash: 264bc0768362a68984faea923efaa21f67f4d10a - Password: P4ssw0rd

Despues de probar con codigo y obtener pocos resultados, se decidio usar una herramienta de hashing para obtener mejores respuestas.

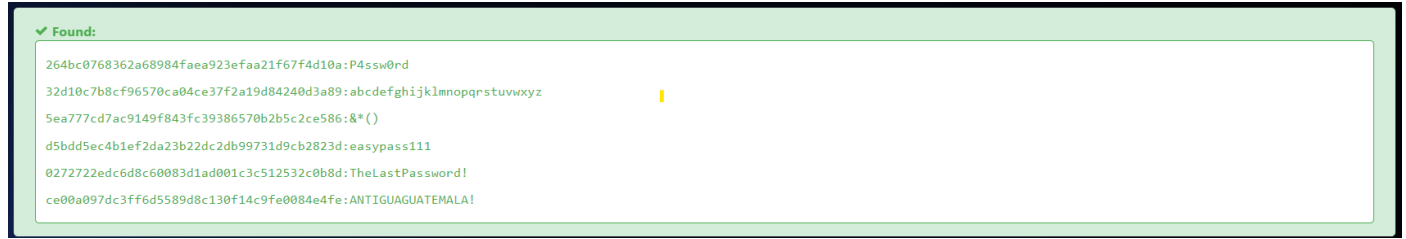


image.png

Resultados:

- 264bc0768362a68984faea923efaa21f67f4d10a:
 - P4ssw0rd
- 32d10c7b8cf96570ca04ce37f2a19d84240d3a89:
 - abcdefghijklmnopqrstuvwxyz
- 5ea777cd7ac9149f843fc39386570b2b5c2ce586:
 - &*()
- d5bdd5ec4b1ef2da23b22dc2db99731d9cb2823d:
 - easypass111
- 0272722edc6d8c60083d1ad001c3c512532c0b8d:
 - TheLastPassword!
- ce00a097dc3ff6d5589d8c130f14c9fe0084e4fe:
 - ANTIGUAGUATEMALA!

Hashes no encontrados:

- 60d164f15a265fb5c1079a1724a8c5529d8cc7e8
- 19708317dbd8b865fbe034ab68ecea5994d0426b
- 6637adb32b7154eafcd20b5525aef53a905f63ef
- 37d538ca0613318bde7b4d395b00746b5a056e81