HTB Machine Write Up: Bashed

Write up by Ori lankovitch



Start: Enumeration

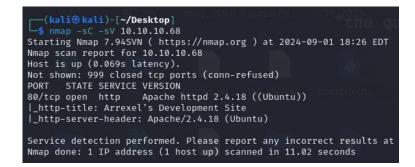
Started with an Nmap scan and found that ports 80 (http) was open, running an apache server.

Opened the web page and found this website designed to help with pentesting.

After clicking on the arrow in the middle of the page it took me into the "/single.html" page, containing this link to GitHub "https://github.com/Arrexel/phpbash".

The GitHubs readme file explains that this is a standalone semi-interactive web shell based on kali linux, that its purpose is to assist in penetration tests. The GitHub page also contained two php files.









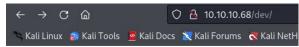
Next step is to run "Dirsearch" and look for useful directories in the site.

After looking at the results and checking the different directories, I came across "/Dev" page witch had a link to the web shell.

I opened a listener on my machine, in the server I ran a python reverse shell command, and got a shell with the user "www-data".

After obtaining a shell I used the "find" command to get the first flag.

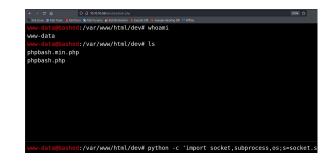
```
[3:59:24] Starting:
[13:59:27] 301. 3088 - /php → http://10.10.10.68/php/
[13:59:27] 301. 3088 - /php → http://10.10.10.68/php/
[13:59:23] 301. 3078 - /js → http://10.10.10.68/js/
[13:59:33] 403. 3080 - /.htacess.orig
[13:59:33] 403. 3080 - /.htacess.save
[13:59:33] 403. 2080 - /.htacess.save
[13:59:33] 403. 2090 - /.htacess.save
[13
```



Index of /dev



Apache/2.4.18 (Ubuntu) Server at 10.10.10.68 Port 80



Privilege Escalation:

Next, I used the sudo -l command to identify the commands that the default user can execute with root privileges.

The output shows that the user can run any command using "scriptmanager" without password.

After some researching I run the command "sudo -u scriptmanager bash -i" and got the "scriptmanager" users shell.

"sudo -u scriptmanager": Runs the command as the scriptmanager user.

"bash": Launches a new shell session as the scriptmanager user.

"-i": makes the shell interactive, so it loads the user's settings.

```
www-data@bashed:~/html$ sudo -l
Matching Defaults entries for www-data on bashed:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/u

User www-data may run the following commands on bashed:
    (scriptmanager : scriptmanager) NOPASSWD: ALL
www-data@bashed:~/html$ sudo scriptmanager bash -i
[sudo] password for www-data:
www-data@bashed:~/html$ sudo -u scriptmanager bash -i
scriptmanager@bashed:/var/www/html$
```

```
scriptmanager@bashed:/$ ls -la
total 92
drwxr-xr-x 23 root
                            root
                                          4096 Jun 2 2022
drwxr-xr-x 23 root
                            root
                                          4096 Jun 2 2022 ...
           1 root
                            root
                                           174 Jun 14 2022 .bash history
           2 root
                            root
                                          4096 Jun 2 2022 bin
drwxr-xr-x 3 root
                            root
                                          4096 Jun 2 2022 boot
drwxr-xr-x 19 root
                            root
                                          4140 Aug 31 08:04 dev
drwxr-xr-x 89 root
                            root
                                          4096 Jun 2 2022 etc
                            root
                                          4096 Dec 4 2017 home
lrwxrwxrwx 1 root
                            root
                                            32 Dec 4 2017 initrd.img -
drwxr-xr-x 19 root
                            root
                                          4096 Dec 4
                                                      2017 lib
drwxr-xr-x 2 root
                            root
                                          4096 Jun 2 2022 lib64
                            root
                                         16384 Dec 4 2017 lost+found
drwxr-xr-x 4 root
                            root
                                          4096 Dec 4 2017 media
                            root
                                          4096 Jun 2
                                                      2022 mnt
drwxr-xr-x 2 root
                            root
                                          4096 Dec 4 2017 opt
dr-xr-xr-x 255 root
                            root
                                             0 Aug 31 08:04 proc
                            root
                                          4096 Aug 31 08:06 root
drwxr-xr-x 18 root
                            root
                                           520 Sep 1 06:25 run
                                          4096 Dec 4 2017 sbin
drwxr-xr-x 2 root
                            root
            2 scriptmanager scriptmanager 4096 Sep 1 11:59 scripts
                                          4096 Feb 15 2017 srv
drwxr-xr-x 2 root
                            root
dr-xr-xr-x 13 root
                            root
                                             0 Sep 1 15:39 svs
drwxrwxrwt 10 root
                            root
                                          4096 Sep 1 16:49 tmp
                                          4096 Dec 4 2017 usr
drwxr-xr-x 10 root
                            root
drwxr-xr-x 12 root
                                          4096 Jun 2 2022 var
                            root
                                            29 Dec 4 2017 vmlinuz → boo
lrwxrwxrwx 1 root
                            root
```

Running the command "ls -la", shows that the only directory under the user "scriptmanager" is the "scripts" directory.

I navigated to that directory and found two files: test.txt and test.py.

The test.py contains a simple python script that write into the test.txt file.

I was able to see that the python script is executed repeatedly about every one minute, creating and editing the text.txt file.

Because the script was executed repeatedly, I assumed that the files in this directory are being executed by a root privileged user, so I made a new python script, using a reverse shell command.

I Opened a new listener on my machine, waited about a minute, got a root shell and found the missing flag.

```
scriptmanager@bashed:/$ ls -la
total 92
drwxr-xr-x 23 root
                                          4096 Jun 2 2022
drwxr-xr-x 23 root
                                          4096 Jun 2 2022 ...
                                           174 Jun 14 2022 .bash_history
                                          4096 Jun 2 2022 bin
            2 root
                            root
                                          4096 Jun 2 2022 boot
            3 root
drwxr-xr-x 19 root
                            root
                                          4140 Aug 31 08:04 dev
drwxr-xr-x
                            root
                                          4096 Jun 2 2022 etc
                                          4096 Dec 4 2017 home
            4 root
                            root
lrwxrwxrwx
                                            32 Dec 4 2017 initrd.img →
            1 root
drwxr-xr-x 19 root
                                          4096 Dec 4 2017 lib
drwxr-xr-x
           2 root
                            root
                                          4096 Jun 2 2022 lib64
                                          16384 Dec 4 2017 lost+found
            2 root
                            root
                                          4096 Dec 4 2017 media
drwxr-xr-x
            4 root
                            root
            2 root
                            root
                                          4096 Jun 2 2022 mnt
                                          4096 Dec 4 2017 opt
dr-xr-xr-x 255 root
                            root
                                             0 Aug 31 08:04 proc
           3 root
                            root
                                          4096 Aug 31 08:06 root
drwxr-xr-x 18 root
                                           520 Sep 1 06:25 run
drwxr-xr-x
           2 root
                                          4096 Dec 4 2017 sbin
drwxrwxr--
            2 scriptmanager scriptmanager
                                          4096 Sep 1 11:59 scripts
drwxr-xr-x
                            root
                                           4096 Feb 15 2017 srv
                                             0 Sep 1 15:39 svs
drwxrwxrwt 10 root
                                          4096 Sep 1 16:49 tmp
drwxr-xr-x 10 root
                                          4096 Dec 4 2017 usr
drwxr-xr-x
          12 root
                                          4096 Jun 2 2022 var
           1 root
                                            29 Dec 4 2017 vmlinuz → bo
lrwxrwxrwx
                            root
```

```
scriptmanager@bashed:/$ cd scripts/
scriptmanager@bashed:/scripts$ ls
test.py test.txt
scriptmanager@bashed:/scripts$ cat test.py
f = open("test.txt", "w")
f.write("testing 123!")
f.close
scriptmanager@bashed:/scripts$
```



Bashed has been Pwned!

Congratulations shokoyanko, best of luck in capturing flags ahead!

#29161 01 Sep 2024 RETIRED

MACHINE RANK PWN DATE MACHINE STATE