

LABORATORIO VIRTUALE W2D4

- Scarico VirtualBox da questo sito: <https://www.virtualbox.org/wiki/Downloads>, scelgo il link in base al sistema operativo del computer

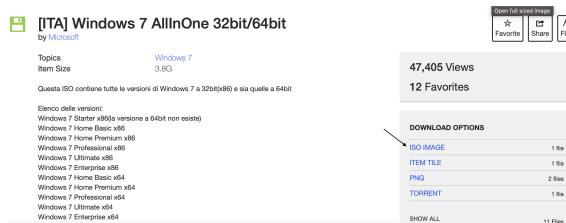


- Scarico le macchine virtuali:

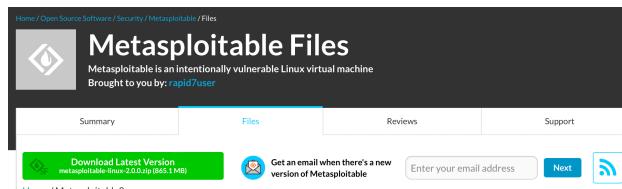
- Kali Linux <https://www.kali.org/get-kali/#kali-virtual-machines>



- Windows 7 <https://archive.org/details/win-7-aio-32x-64x>



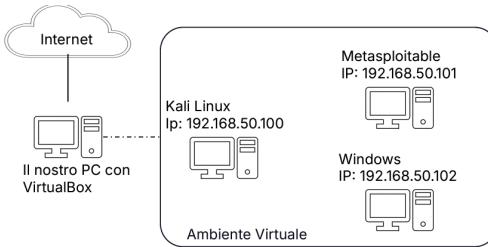
- Metasploitable 2 <https://sourceforge.net/projects/metasploitable/files/Metasploitable2/>



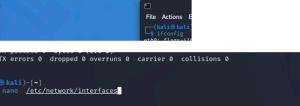
- Installo e configuro le macchine virtuali su VirtualBox



4. Evidenzio ping tra le macchine virtuali, così che possano comunicare tra loro



KALI



The screenshot shows a terminal window with the following content:

```
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[MultiWatt] ~
└─# sudo nano /etc/network/interfaces

root@kali:~# cat /etc/network/interfaces
auto lo
iface lo inet loopback

auto eth0
iface eth0 inet static
    address 192.168.50.100
    netmask 255.255.255.0
    gateway 192.168.50.1
    dns-nameservers 8.8.8.8 8.8.4.4
```

METASPLOITABLE

WINDOWS

The screenshot shows the Windows Control Panel under 'Pannello di controllo > Tutti gli elementi del Pannello di controllo > Centro connessioni di rete e traduzione'. The left pane lists network adapters: 'Intel PRO/1000 MT Desktop Adapter' and 'Microsoft Wi-Fi Direct'. The right pane displays connection status: 'Connessione Internet' (Status: Attivata), 'Bottiglia di connessione' (Bandwidth: 100 Mbps), and 'Visualizza stato della connessione'. A detailed view of the 'Protocollo Internet Versione 4 (TCP/IPv4)' properties is shown in a separate window, with an orange arrow pointing to the 'Generale' tab where the IP address is set to 192.168.1.100.

5. Invio il comando di ping da Kali a Metasploitable e viceversa

```
kali㉿kali: ~
```

File Actions Edit View Help

```
64 bytes from 192.168.50.101: icmp_seq=97 ttl=64 time=1.12 ms
64 bytes from 192.168.50.101: icmp_seq=98 ttl=64 time=1.01 ms
64 bytes from 192.168.50.101: icmp_seq=99 ttl=64 time=0.879 ms
64 bytes from 192.168.50.101: icmp_seq=100 ttl=64 time=0.822 ms
64 bytes from 192.168.50.101: icmp_seq=101 ttl=64 time=1.189 ms
64 bytes from 192.168.50.101: icmp_seq=102 ttl=64 time=0.891 ms
64 bytes from 192.168.50.101: icmp_seq=103 ttl=64 time=1.79 ms
64 bytes from 192.168.50.101: icmp_seq=104 ttl=64 time=1.60 ms
64 bytes from 192.168.50.101: icmp_seq=105 ttl=64 time=1.35 ms
64 bytes from 192.168.50.101: icmp_seq=106 ttl=64 time=1.46 ms
64 bytes from 192.168.50.101: icmp_seq=107 ttl=64 time=2.53 ms
64 bytes from 192.168.50.101: icmp_seq=108 ttl=64 time=1.28 ms
64 bytes from 192.168.50.101: icmp_seq=109 ttl=64 time=1.23 ms
64 bytes from 192.168.50.101: icmp_seq=110 ttl=64 time=1.58 ms
64 bytes from 192.168.50.101: icmp_seq=111 ttl=64 time=1.24 ms
64 bytes from 192.168.50.101: icmp_seq=112 ttl=64 time=0.815 ms
64 bytes from 192.168.50.101: icmp_seq=113 ttl=64 time=1.04 ms
64 bytes from 192.168.50.101: icmp_seq=114 ttl=64 time=0.885 ms
64 bytes from 192.168.50.101: icmp_seq=115 ttl=64 time=1.53 ms
64 bytes from 192.168.50.101: icmp_seq=116 ttl=64 time=1.55 ms
[...]
— 192.168.50.101 ping statistics —
116 packets transmitted, 116 received, 0% packet loss, time 115193ms
rtt min/avg/max/mdev = 0.815/1.908/3.479/0.470 ms
```

```
[*] Metasploitable 2 [Running]
64 bytes from 192.168.50.100: icmp_seq=154 ttl=64 time=1.12 ns
64 bytes from 192.168.50.100: icmp_seq=155 ttl=64 time=1.45 ns
64 bytes from 192.168.50.100: icmp_seq=156 ttl=64 time=1.99 ns
64 bytes from 192.168.50.100: icmp_seq=157 ttl=64 time=1.13 ns
64 bytes from 192.168.50.100: icmp_seq=158 ttl=64 time=0.948 ns
64 bytes from 192.168.50.100: icmp_seq=159 ttl=64 time=0.788 ns
64 bytes from 192.168.50.100: icmp_seq=160 ttl=64 time=1.18 ns
64 bytes from 192.168.50.100: icmp_seq=161 ttl=64 time=1.26 ns
64 bytes from 192.168.50.100: icmp_seq=162 ttl=64 time=1.21 ns
64 bytes from 192.168.50.100: icmp_seq=163 ttl=64 time=1.15 ns
64 bytes from 192.168.50.100: icmp_seq=164 ttl=64 time=1.17 ns
64 bytes from 192.168.50.100: icmp_seq=165 ttl=64 time=1.63 ns
64 bytes from 192.168.50.100: icmp_seq=166 ttl=64 time=1.26 ns
64 bytes from 192.168.50.100: icmp_seq=167 ttl=64 time=1.22 ns
64 bytes from 192.168.50.100: icmp_seq=168 ttl=64 time=1.10 ns
64 bytes from 192.168.50.100: icmp_seq=169 ttl=64 time=1.28 ns
64 bytes from 192.168.50.100: icmp_seq=170 ttl=64 time=1.45 ns
64 bytes from 192.168.50.100: icmp_seq=171 ttl=64 time=1.29 ns
64 bytes from 192.168.50.100: icmp_seq=172 ttl=64 time=0.963 ns
64 bytes from 192.168.50.100: icmp_seq=173 ttl=64 time=1.41 ns

--- 192.168.50.100 ping statistics ---
173 packets transmitted, 173 received, 0% packet loss, time 172028ms
rtt min/avg/max/mdev = 0.534/1.226/2.499/-0.268 ms
msfadmin@metasploitable:~$ _
```

6. Verifico se tra le macchine virtuali e l'host c'è connessione, tramite il comando ping

```
>Last login: Mon Mar  3 18:48:44 on console

The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208805.
MBPdiBenedetta:~ benedetta$ ping 162.168.50.100
PING 162.168.50.100 (162.168.50.100): 56 data bytes
Request timeout for icmp_seq 0
Request timeout for icmp_seq 1
Request timeout for icmp_seq 2
Request timeout for icmp_seq 3
Request timeout for icmp_seq 4
Request timeout for icmp_seq 5
Request timeout for icmp_seq 6
Request timeout for icmp_seq 7
Request timeout for icmp_seq 8
Request timeout for icmp_seq 9
Request timeout for icmp_seq 10
```
--- 162.168.50.100 ping statistics ---
12 packets transmitted, 0 packets received, 100.0% packet loss
MBPdiBenedetta:~ benedetta$
```

```
Last login: Sat Mar 8 19:34:49 on ttys000

The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT200805.
MBPdibenedetta:~ benedetta$ ping 192.168.50.101
PING 192.168.50.101 (192.168.50.101): 56 data bytes
Request timeout for icmp_seq 0
Request timeout for icmp_seq 1
Request timeout for icmp_seq 2
Request timeout for icmp_seq 3
Request timeout for icmp_seq 4
Request timeout for icmp_seq 5
Request timeout for icmp_seq 6
Request timeout for icmp_seq 7
Request timeout for icmp_seq 8
Request timeout for icmp_seq 9
Request timeout for icmp_seq 10
Request timeout for icmp_seq 11
Request timeout for icmp_seq 12
^C
--- 192.168.50.101 ping statistics ---
14 packets transmitted, 0 packets received, 100.0% packet loss
```

(Posso notare che non c'è)

## ESERCIZIO FACOLTATIVO

Ho clonato la macchina virtuale Kali Linux, cliccandoci sopra e premendo “Clona” (con sistema operativo MacOS)

