

## Esercitazione 2 - 27/10/23

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# Creazione e configurazione Lab Virtuale

Il laboratorio virtuale creato su virtual Box è costituito da **3 macchine virtuali** a cui ho impostato degli indirizzi IP statici:

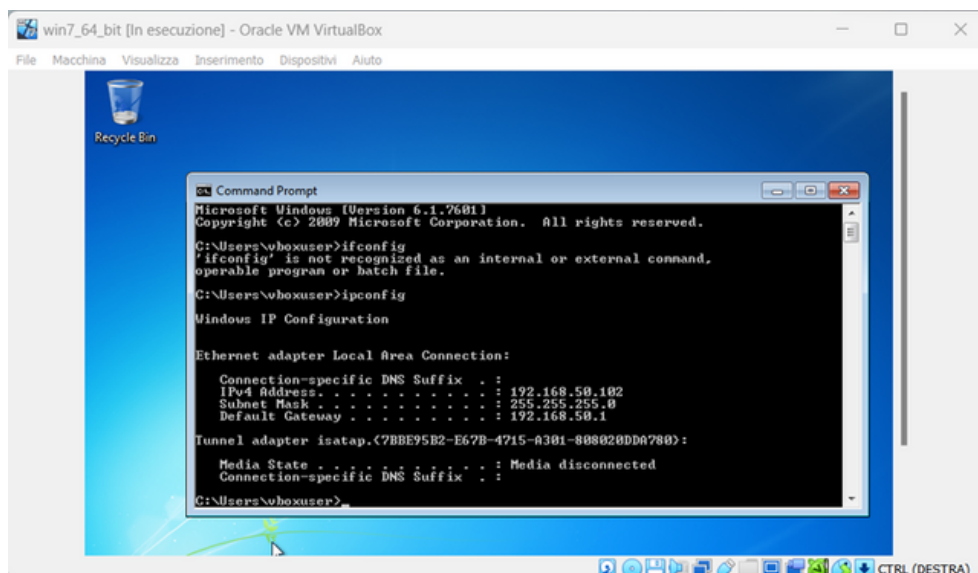
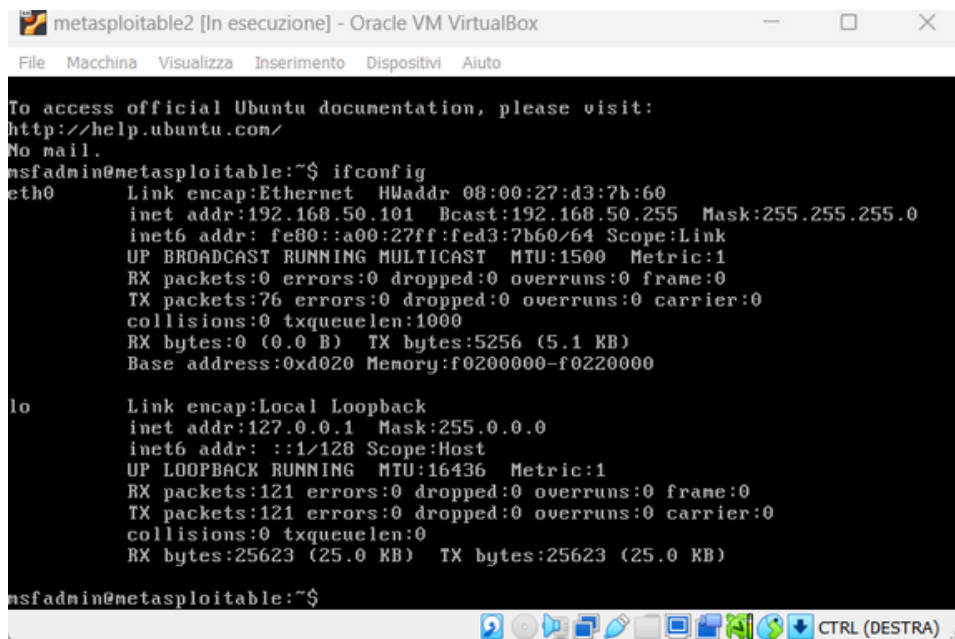
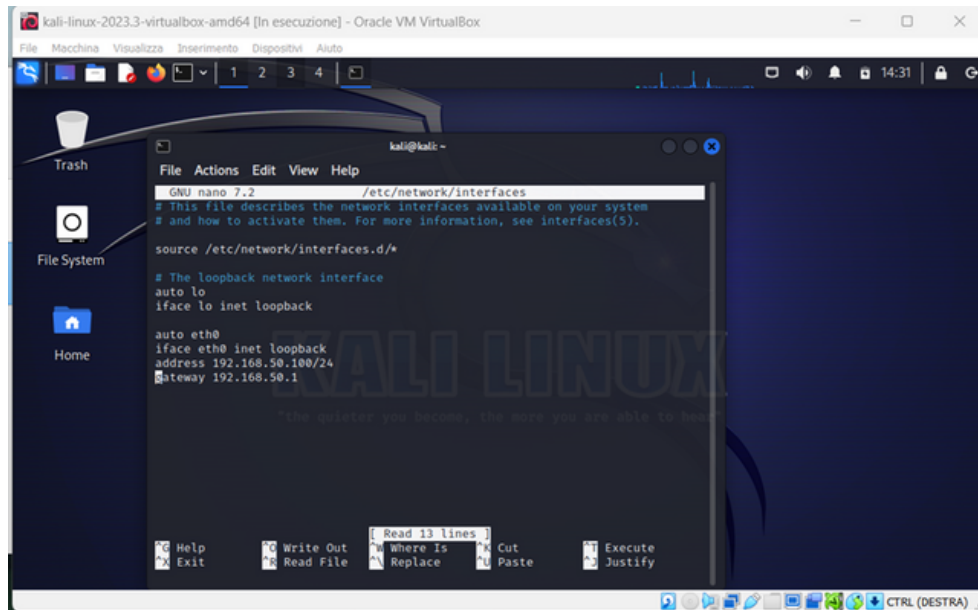
**Kali Linux: 192.168.50.100**

**Metaspitable: 192.168.50.101**

**Windows 7: 192.168.50.102**

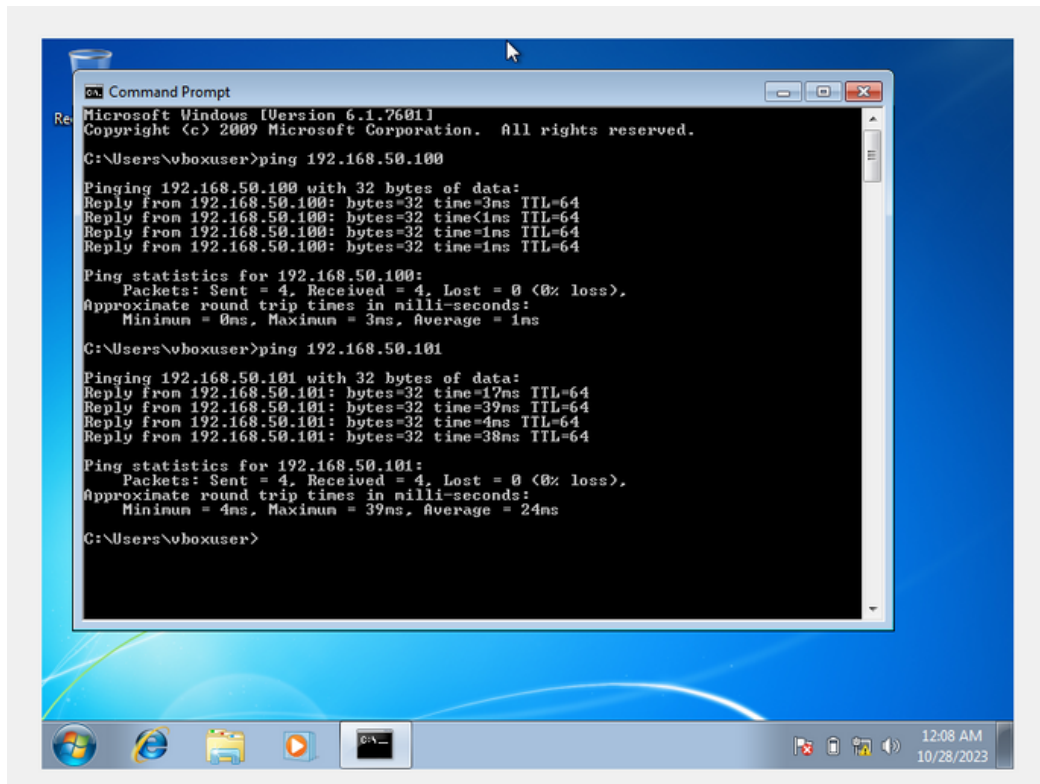
Ho provveduto all'installazione di ogni macchina su **rete interna** in modo da non compromettere la macchina host.

# Impostazione indirizzi IP



# Test comunicazione tra macchine

Dopo aver impostato gli indirizzi IP ho verificato la reciproca raggiungibilità con l'utilità ping.



```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\ vboxuser>ping 192.168.50.100

Pinging 192.168.50.100 with 32 bytes of data:
Reply from 192.168.50.100: bytes=32 time=3ms TTL=64
Reply from 192.168.50.100: bytes=32 time<1ms TTL=64
Reply from 192.168.50.100: bytes=32 time=1ms TTL=64
Reply from 192.168.50.100: bytes=32 time=1ms TTL=64

Ping statistics for 192.168.50.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 3ms, Average = 1ms

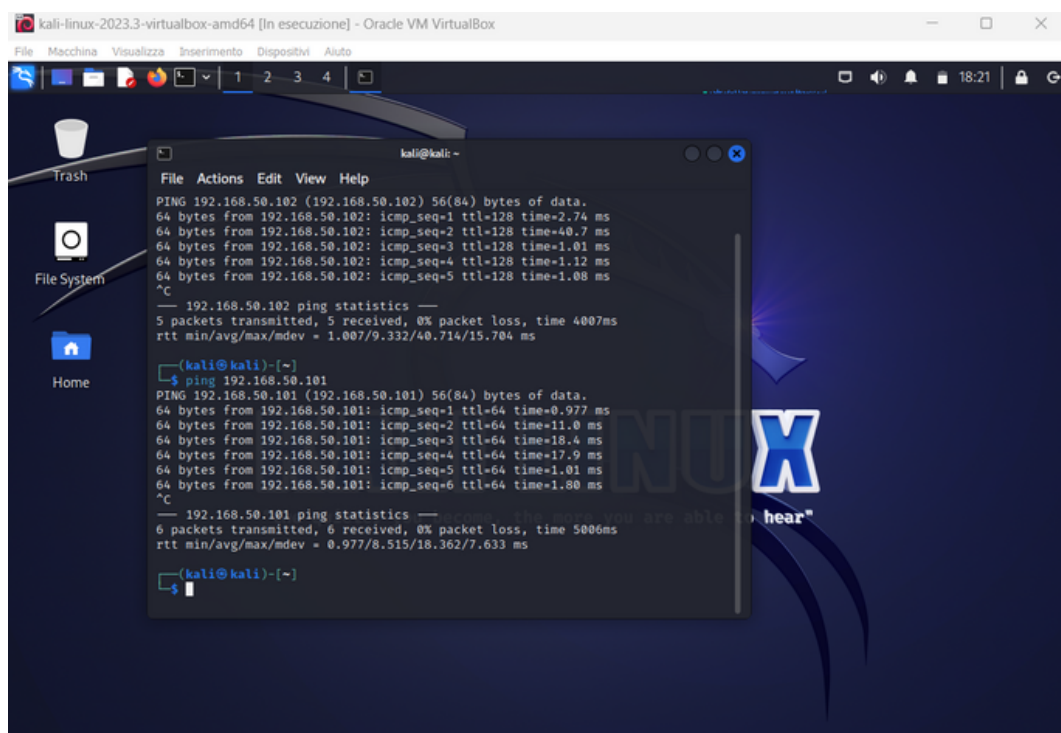
C:\Users\ vboxuser>ping 192.168.50.101

Pinging 192.168.50.101 with 32 bytes of data:
Reply from 192.168.50.101: bytes=32 time=17ms TTL=64
Reply from 192.168.50.101: bytes=32 time=39ms TTL=64
Reply from 192.168.50.101: bytes=32 time=4ms TTL=64
Reply from 192.168.50.101: bytes=32 time=38ms TTL=64

Ping statistics for 192.168.50.101:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 4ms, Maximum = 39ms, Average = 24ms

C:\Users\ vboxuser>
```

Win7 può comunicare con Metasploitable e Kali Linux



```
kali@kali: ~
File Actions Edit View Help

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=2.74 ms
64 bytes from 192.168.50.102: icmp_seq=2 ttl=128 time=400.7 ms
64 bytes from 192.168.50.102: icmp_seq=3 ttl=128 time=1.01 ms
64 bytes from 192.168.50.102: icmp_seq=4 ttl=128 time=1.12 ms
64 bytes from 192.168.50.102: icmp_seq=5 ttl=128 time=1.08 ms
^C
--- 192.168.50.102 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4007ms
rtt min/avg/max/mdev = 1.007/9.332/40.714/15.704 ms

kali@kali: ~
$ ping 192.168.50.101
PING 192.168.50.101 (192.168.50.101) 56(84) bytes of data:
64 bytes from 192.168.50.101: icmp_seq=1 ttl=64 time=0.977 ms
64 bytes from 192.168.50.101: icmp_seq=2 ttl=64 time=11.0 ms
64 bytes from 192.168.50.101: icmp_seq=3 ttl=64 time=18.4 ms
64 bytes from 192.168.50.101: icmp_seq=4 ttl=64 time=17.9 ms
64 bytes from 192.168.50.101: icmp_seq=5 ttl=64 time=1.01 ms
64 bytes from 192.168.50.101: icmp_seq=6 ttl=64 time=1.80 ms
^C
--- 192.168.50.101 ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5006ms
rtt min/avg/max/mdev = 0.977/8.515/18.362/7.633 ms

kali@kali: ~
$
```

Kali Linux può comunicare con Metasploitable e Win7

```
metasploitable2 [In pausa] - Oracle VM VirtualBox
File  Macchina  Visualizza  Inserimento  Dispositivi  Aiuto

64 bytes from 192.168.50.100: icmp_seq=220 ttl=64 time=89.4 ns
64 bytes from 192.168.50.100: icmp_seq=221 ttl=64 time=9.94 ns
64 bytes from 192.168.50.100: icmp_seq=222 ttl=64 time=10.3 ns
64 bytes from 192.168.50.100: icmp_seq=223 ttl=64 time=1.17 ns
64 bytes from 192.168.50.100: icmp_seq=224 ttl=64 time=46.7 ns
64 bytes from 192.168.50.100: icmp_seq=225 ttl=64 time=0.933 ns
64 bytes from 192.168.50.100: icmp_seq=226 ttl=64 time=56.7 ns
64 bytes from 192.168.50.100: icmp_seq=227 ttl=64 time=0.648 ms
64 bytes from 192.168.50.100: icmp_seq=228 ttl=64 time=46.1 ms
64 bytes from 192.168.50.100: icmp_seq=229 ttl=64 time=0.998 ms
64 bytes from 192.168.50.100: icmp_seq=230 ttl=64 time=0.888 ms
64 bytes from 192.168.50.100: icmp_seq=231 ttl=64 time=0.862 ms
64 bytes from 192.168.50.100: icmp_seq=232 ttl=64 time=0.603 ms
64 bytes from 192.168.50.100: icmp_seq=233 ttl=64 time=0.674 ms
64 bytes from 192.168.50.100: icmp_seq=234 ttl=64 time=0.497 ms
64 bytes from 192.168.50.100: icmp_seq=235 ttl=64 time=0.584 ms
64 bytes from 192.168.50.100: icmp_seq=236 ttl=64 time=0.546 ms
64 bytes from 192.168.50.100: icmp_seq=237 ttl=64 time=0.919 ms
64 bytes from 192.168.50.100: icmp_seq=238 ttl=64 time=57.8 ms
64 bytes from 192.168.50.100: icmp_seq=239 ttl=64 time=0.875 ms

--- 192.168.50.100 ping statistics ---
10 packets transmitted, 10 received, 0% packet loss, time 9003ms
rtt min/avg/max/mdev = 0.885/1.800/7.120/1.790 ms
msfadmin@metasploitable:~$ 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=16.3 ms
64 bytes from 192.168.50.102: icmp_seq=2 ttl=128 time=10.2 ms
64 bytes from 192.168.50.102: icmp_seq=3 ttl=128 time=0.963 ms
64 bytes from 192.168.50.102: icmp_seq=4 ttl=128 time=0.958 ms
64 bytes from 192.168.50.102: icmp_seq=5 ttl=128 time=0.864 ms

--- 192.168.50.102 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4003ms
rtt min/avg/max/mdev = 0.864/5.862/16.309/6.342 ms
msfadmin@metasploitable:~$
```

Metasploitable può comunicare con Win7 e Kali Linux