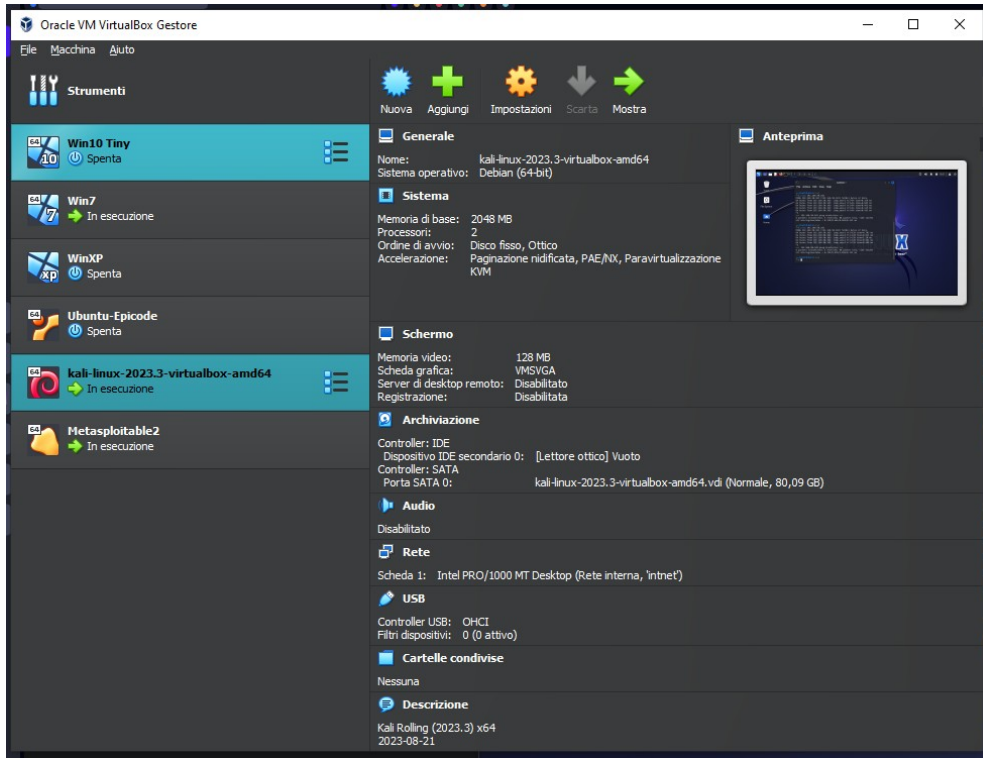


CONSEGNA:

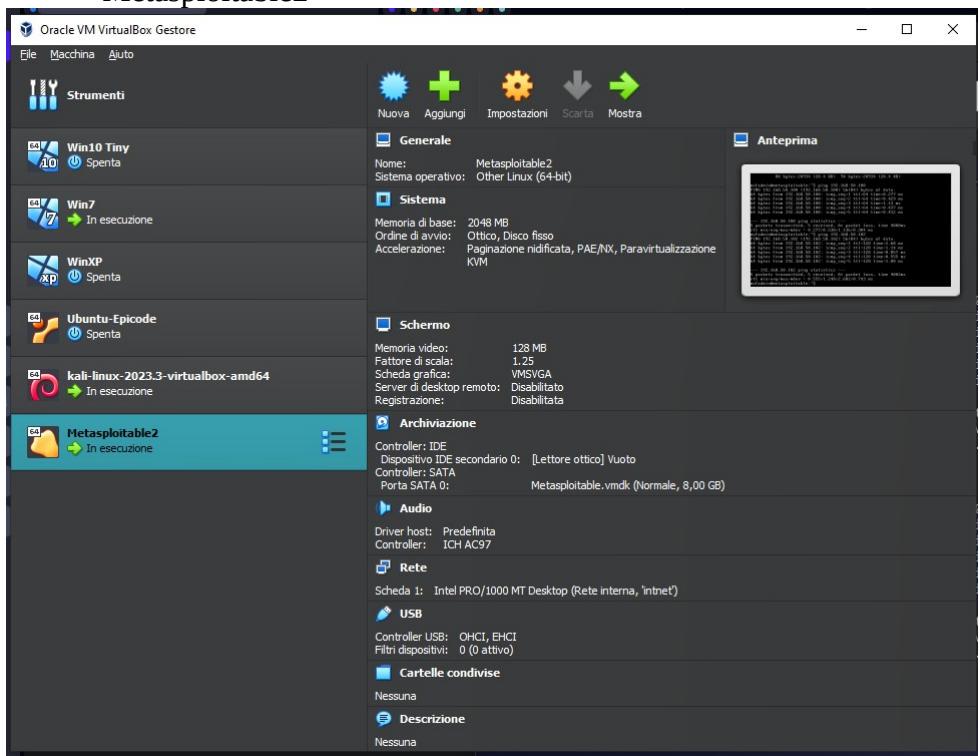
- installare VM windows7, kali linux, e metasploitable2
- configurare le impostazioni ip statico
- verificare che le VM siano in comunicazione

INSTALLAZIONE SU VIRTUALBOX:

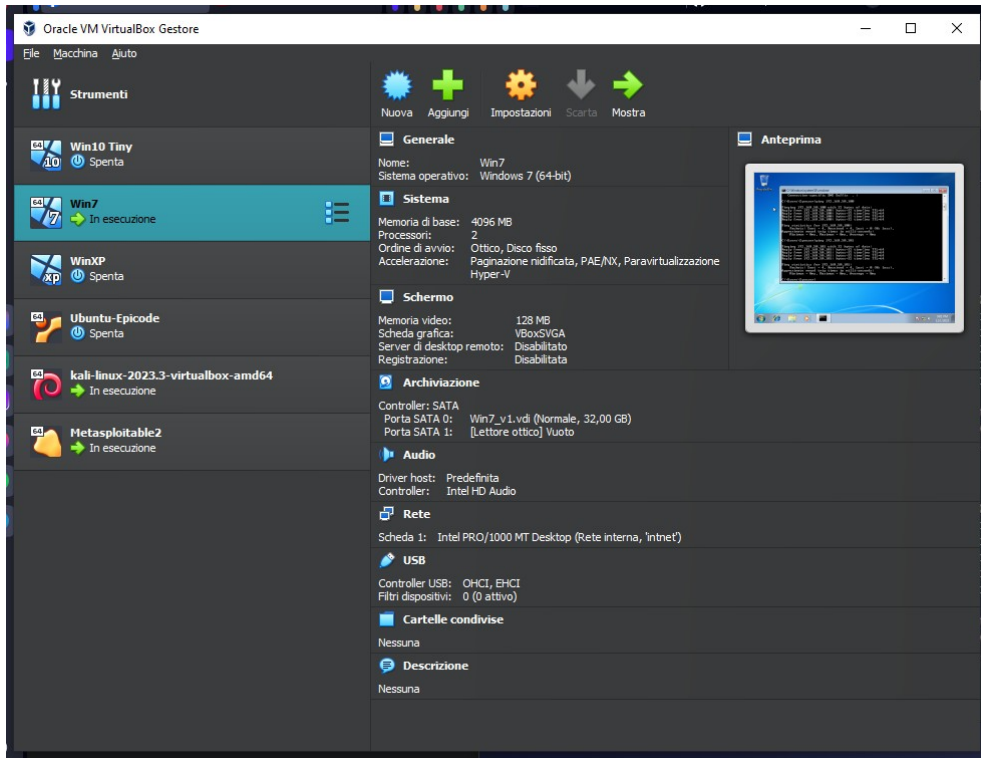
- Kali



- Metasploitable2

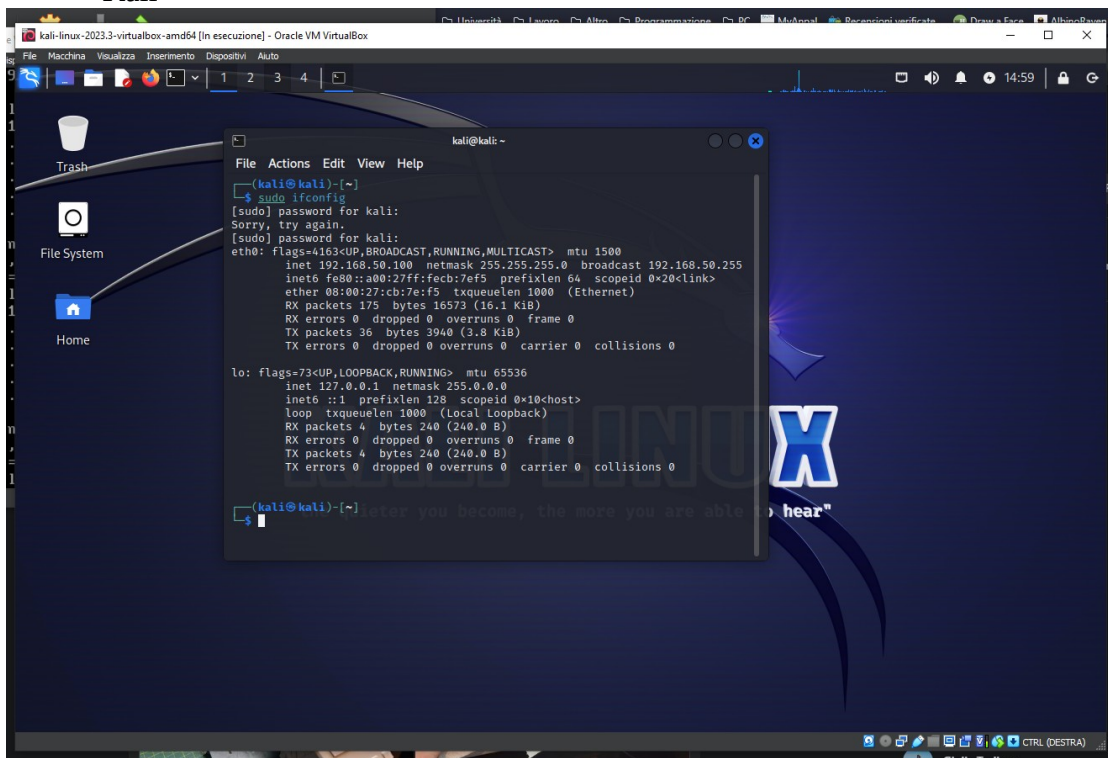


- Windows7



CONFIGURAZIONE IP STATICO:

- Kali



- Metasploitable2

```

Metasploitable2 [In esecuzione] - Oracle VM VirtualBox
File Macchina Visualizza Inserimento Dispositivi Aiuto
No mail.
msfadmin@metasploitable:~$ sudo ifconfig
[sudo] password for msfadmin:
Sorry, try again.
[sudo] password for msfadmin:
eth0      Link encap:Ethernet  HWaddr 08:00:27:f9:ef:00
          inet addr:192.168.50.101  Bcast:192.168.50.255  Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fe9:ef00/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:45 errors:0 dropped:0 overruns:0 frame:0
          TX packets:62 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:3864 (3.7 KB)  TX bytes:4424 (4.3 KB)
          Base address:0xd020 Memory:f0200000-f0220000

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:16436  Metric:1
          RX packets:107 errors:0 dropped:0 overruns:0 frame:0
          TX packets:107 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:20934 (20.4 KB)  TX bytes:20934 (20.4 KB)

msfadmin@metasploitable:~$

```

- Windows7

```

Win7 [In esecuzione] - Oracle VM VirtualBox
File Macchina Visualizza Inserimento Dispositivi Aiuto
Recycle Bin

C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Sysuser>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::1a3b:9ad8:e6a1:x11
    IPv4 Address. . . . . : 192.168.50.102
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.50.1

Tunnel adapter {935122A7-A72A-417B-A10E-C2D59420A354}:

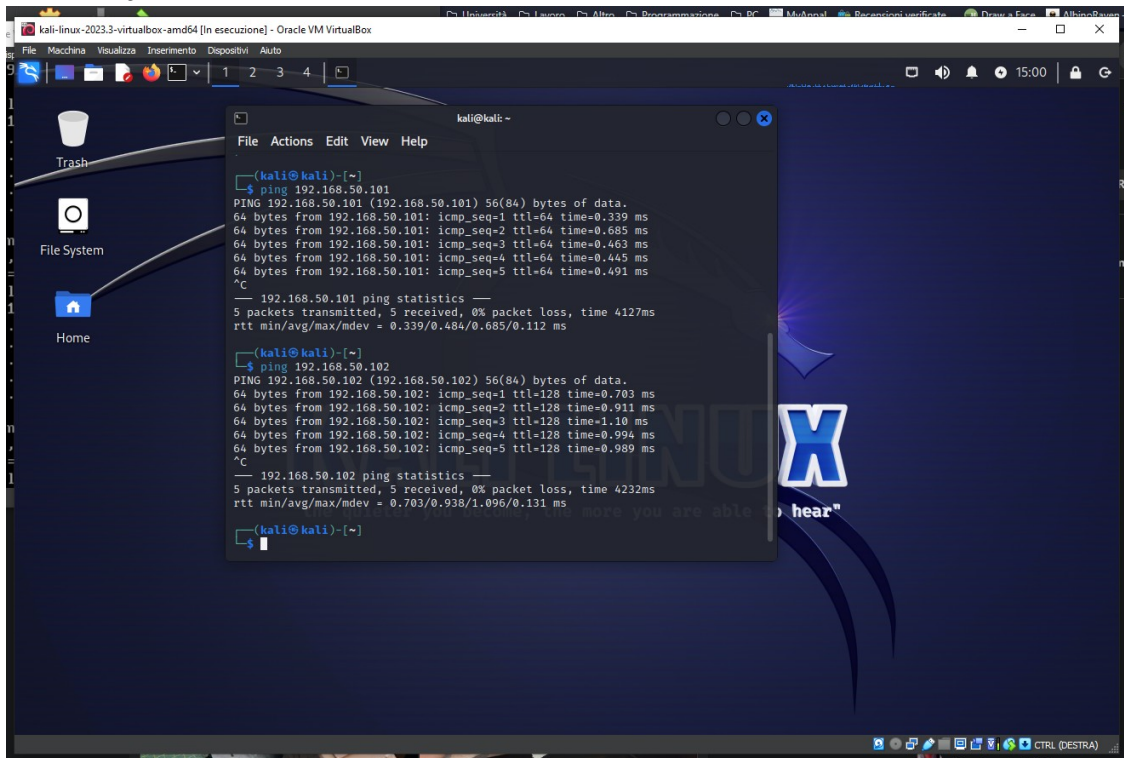
    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : 

C:\Users\Sysuser>

```

VERIFICA COMUNICAZIONE TRAMITE COMANDO PING:

- Kali

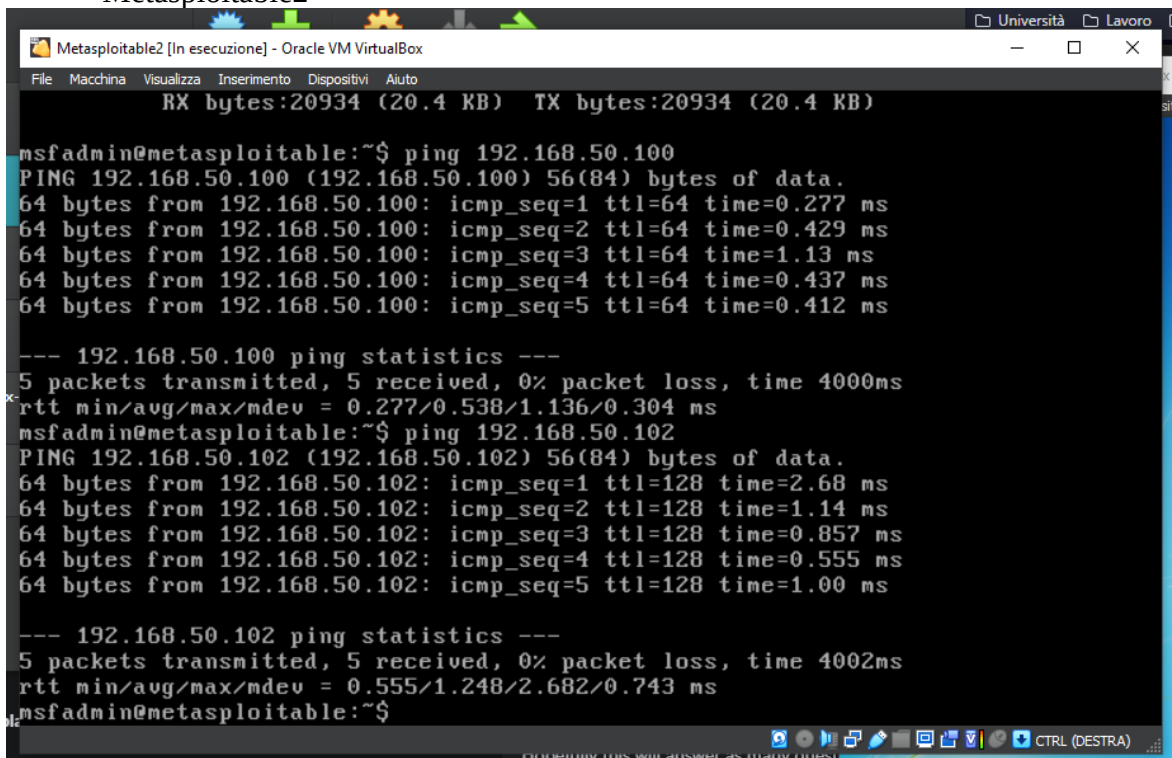


The screenshot shows a Kali Linux terminal window with the following output:

```
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=0.339 ms
64 bytes from 192.168.50.101: icmp_seq=2 ttl=64 time=0.685 ms
64 bytes from 192.168.50.101: icmp_seq=3 ttl=64 time=0.463 ms
64 bytes from 192.168.50.101: icmp_seq=4 ttl=64 time=0.445 ms
64 bytes from 192.168.50.101: icmp_seq=5 ttl=64 time=0.491 ms
^C
--- 192.168.50.101 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4127ms
rtt min/avg/max/mdev = 0.339/0.484/0.685/0.112 ms

kali@kali:~$ 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=0.703 ms
64 bytes from 192.168.50.102: icmp_seq=2 ttl=128 time=0.911 ms
64 bytes from 192.168.50.102: icmp_seq=3 ttl=128 time=1.10 ms
64 bytes from 192.168.50.102: icmp_seq=4 ttl=128 time=0.996 ms
64 bytes from 192.168.50.102: icmp_seq=5 ttl=128 time=0.989 ms
^C
--- 192.168.50.102 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4232ms
rtt min/avg/max/mdev = 0.703/0.938/1.096/0.131 ms
```

- Metasploitable2



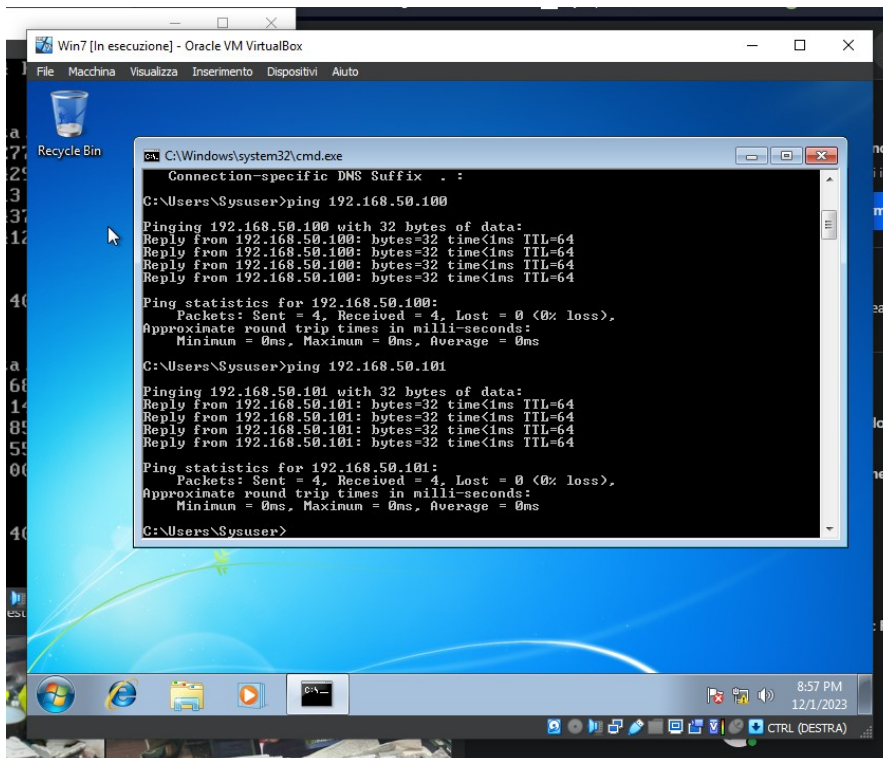
The screenshot shows a Metasploitable2 terminal window with the following output:

```
msfadmin@metasploitable:~$ ping 192.168.50.100
PING 192.168.50.100 (192.168.50.100) 56(84) bytes of data.
64 bytes from 192.168.50.100: icmp_seq=1 ttl=64 time=0.277 ms
64 bytes from 192.168.50.100: icmp_seq=2 ttl=64 time=0.429 ms
64 bytes from 192.168.50.100: icmp_seq=3 ttl=64 time=1.13 ms
64 bytes from 192.168.50.100: icmp_seq=4 ttl=64 time=0.437 ms
64 bytes from 192.168.50.100: icmp_seq=5 ttl=64 time=0.412 ms

--- 192.168.50.100 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4000ms
rtt min/avg/max/mdev = 0.277/0.538/1.136/0.304 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=2.68 ms
64 bytes from 192.168.50.102: icmp_seq=2 ttl=128 time=1.14 ms
64 bytes from 192.168.50.102: icmp_seq=3 ttl=128 time=0.857 ms
64 bytes from 192.168.50.102: icmp_seq=4 ttl=128 time=0.555 ms
64 bytes from 192.168.50.102: icmp_seq=5 ttl=128 time=1.00 ms

--- 192.168.50.102 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4002ms
rtt min/avg/max/mdev = 0.555/1.248/2.682/0.743 ms
msfadmin@metasploitable:~$
```


- Windows7



DIFFICOLTÀ RISCONTRATE:

Dopo la configurazione le due macchine linux fallivano il tentativo di comunicazione nei confronti di Windows: questo è dovuto alla presenza del firewall in quest'ultimo OS.

Il problema è di facile risoluzione disattivando il suddetto firewall dal pannello di controllo di windows, una soluzione alternativa per permettere la comunicazione senza disattivarlo completamente consiste nell'andare a modificarne le impostazioni avanzate.

