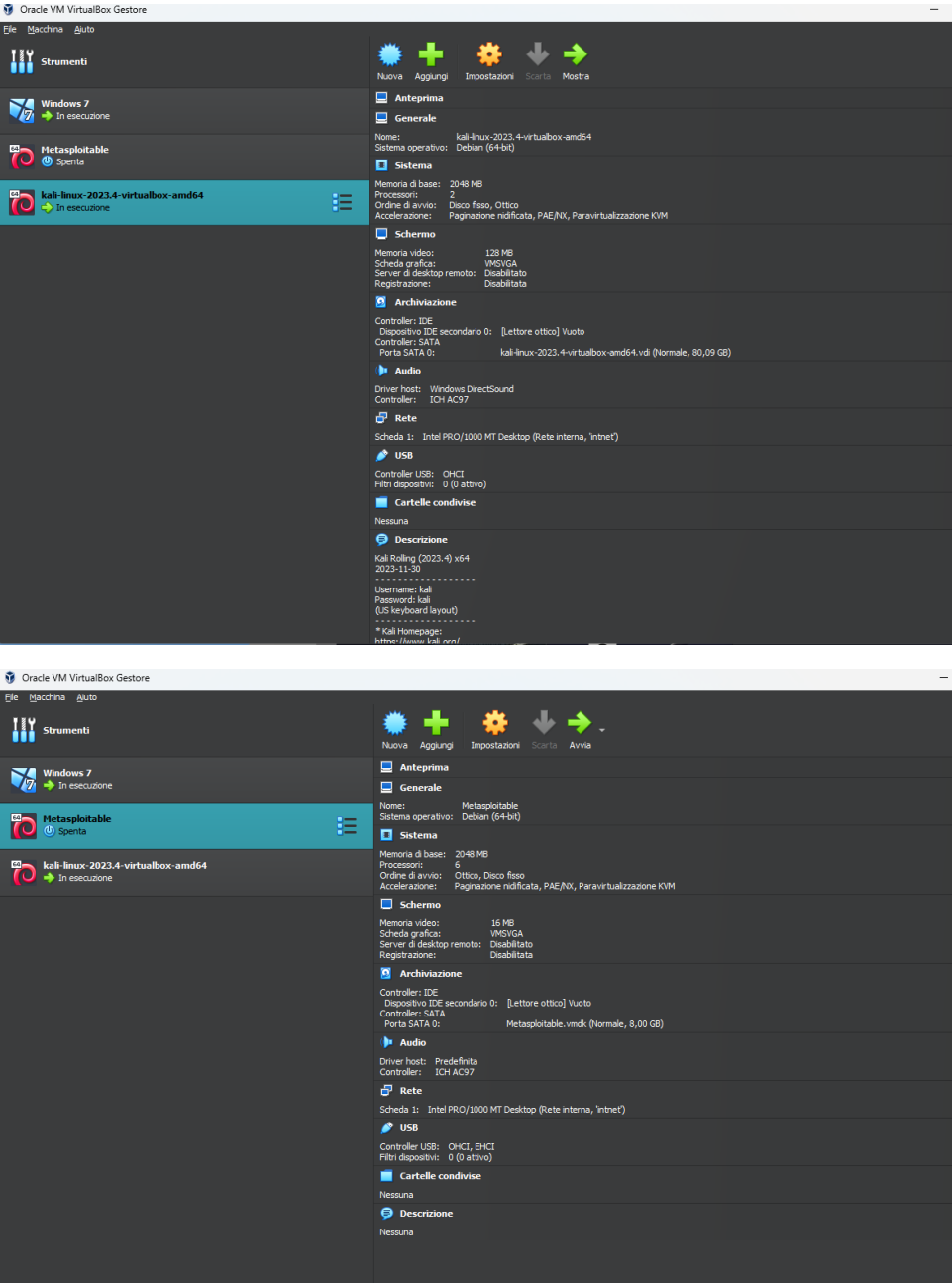
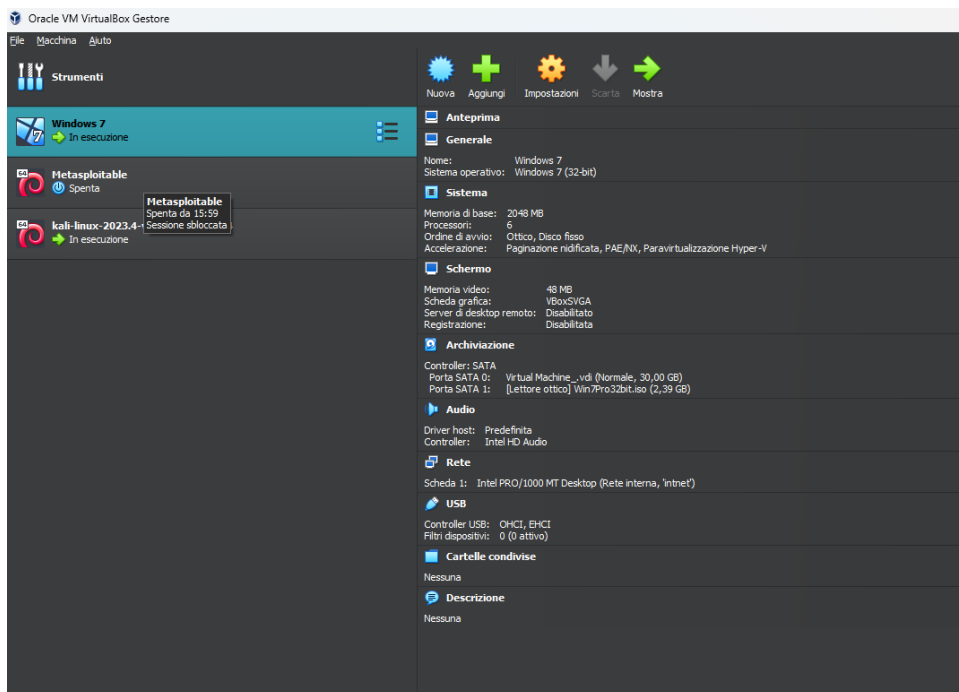
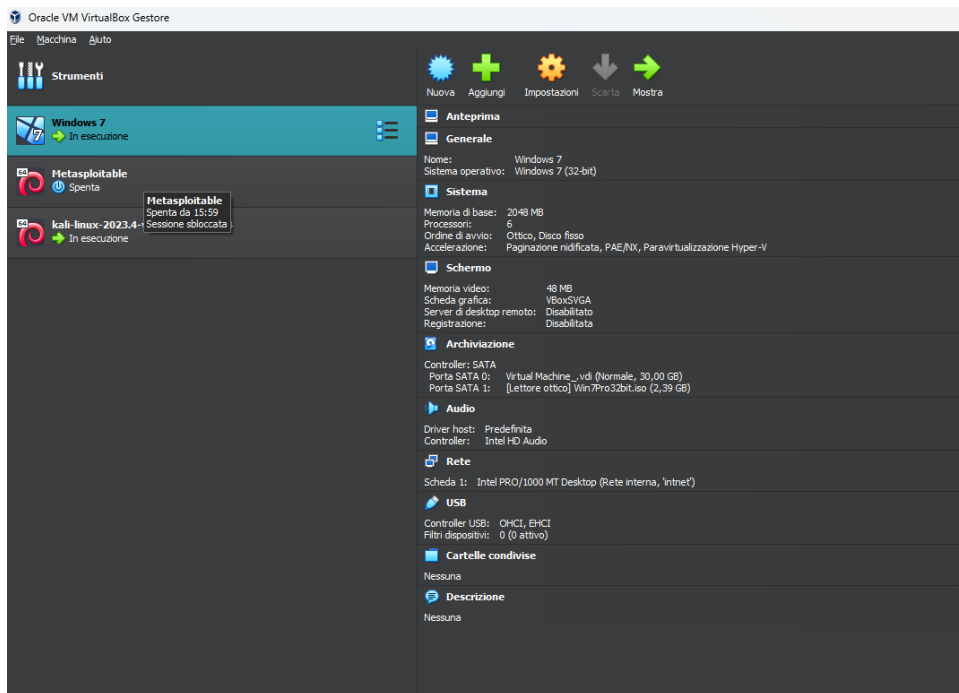
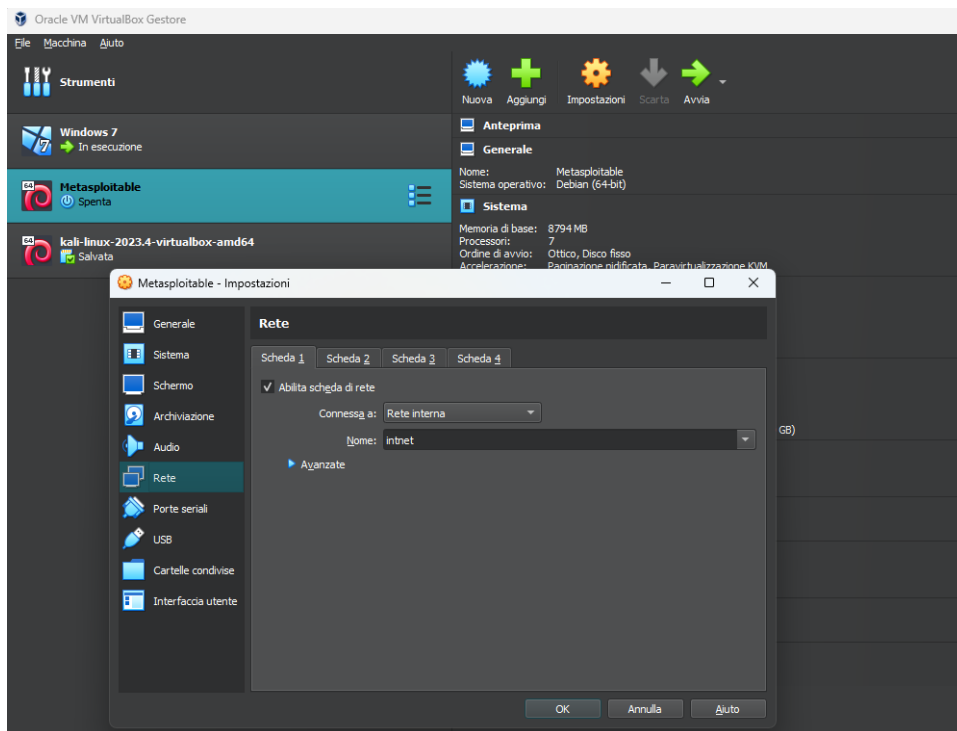


Installazione e configurazione delle macchine virtuali Metasploitable e Kali Linux con un aumento di RAM e Core:

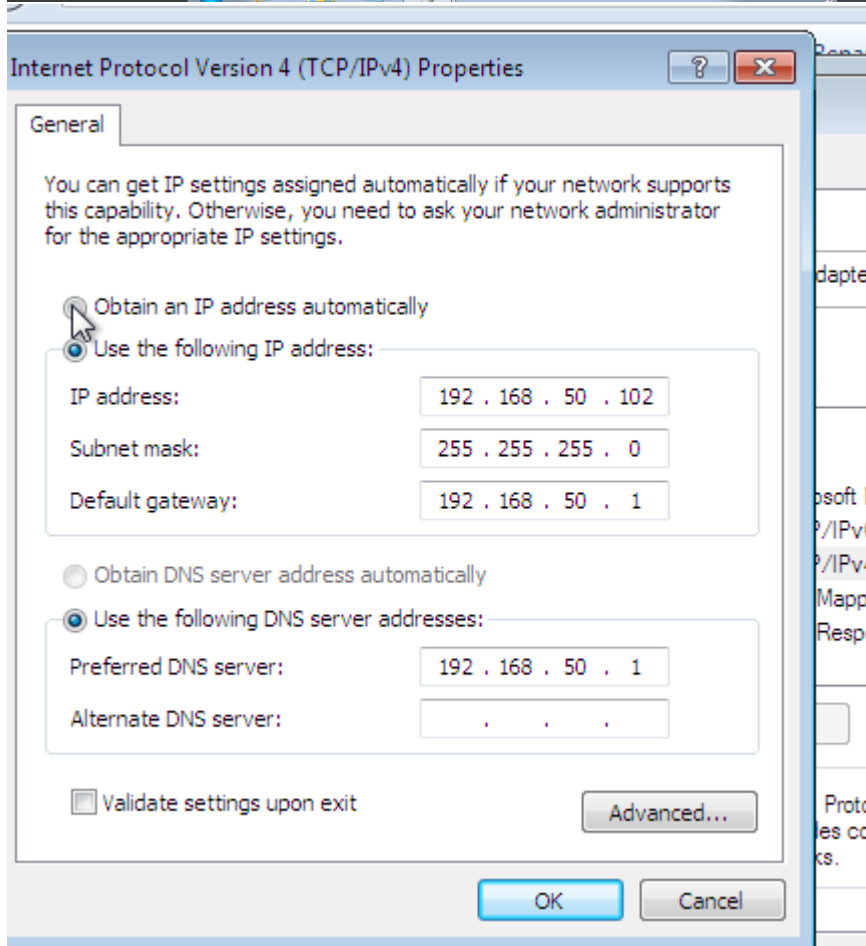
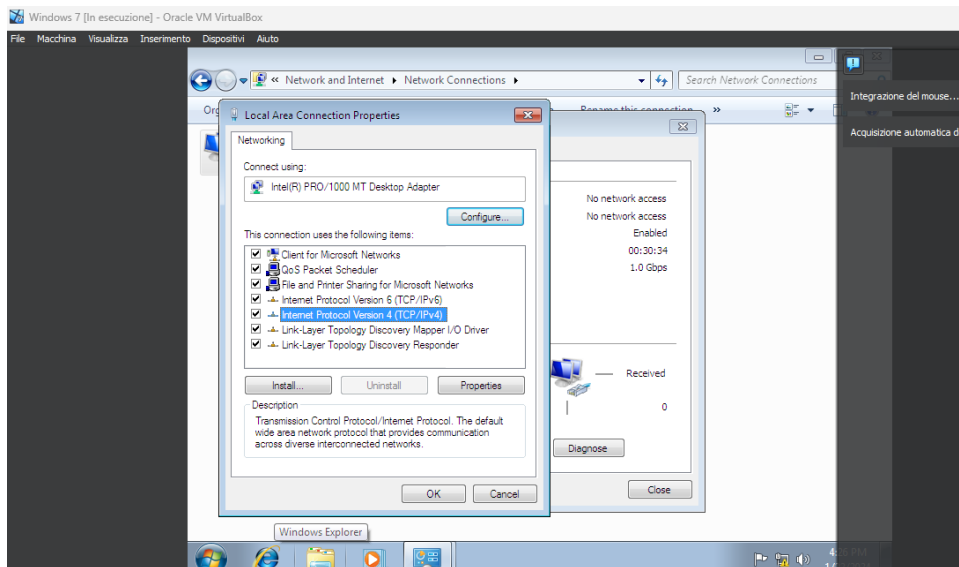




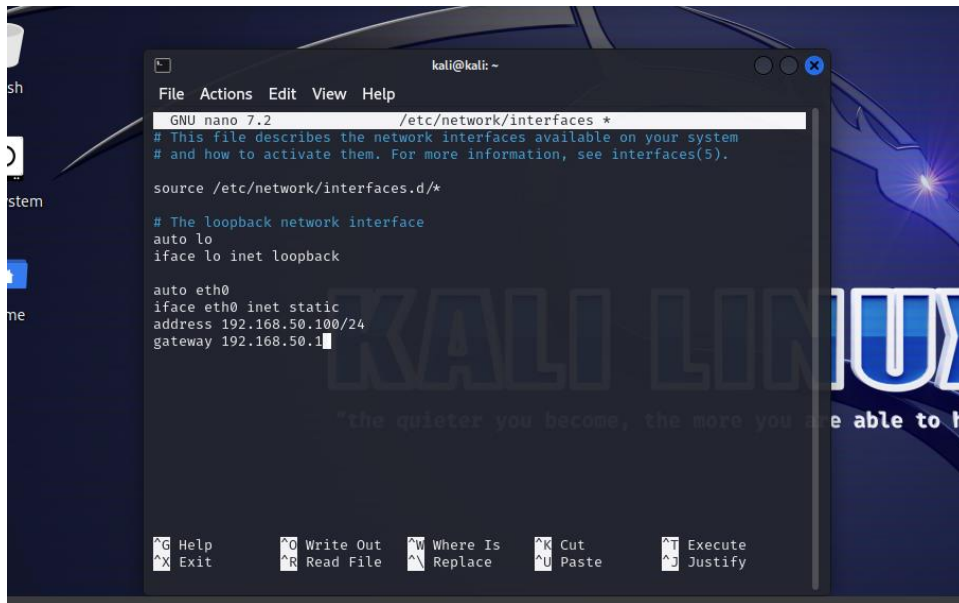
Imposto connessione internal (impostata su tutte le macchine virtuali) per garantire la connessione tra le di loro:



Setto gli indirizzi statici ipv4 in windows 7 nel pannello di controllo



Stessa cosa in Kali Linux con il comando `sudo nano /etc/network/interfaces`



The screenshot shows a terminal window with the nano text editor open at the file `/etc/network/interfaces`. The editor's title bar reads `kali@kali: ~`. The menu bar includes `File Actions Edit View Help`. The status bar at the bottom shows various keyboard shortcuts like `Ctrl+G Help`, `Ctrl+O Write Out`, etc. The file content is as follows:

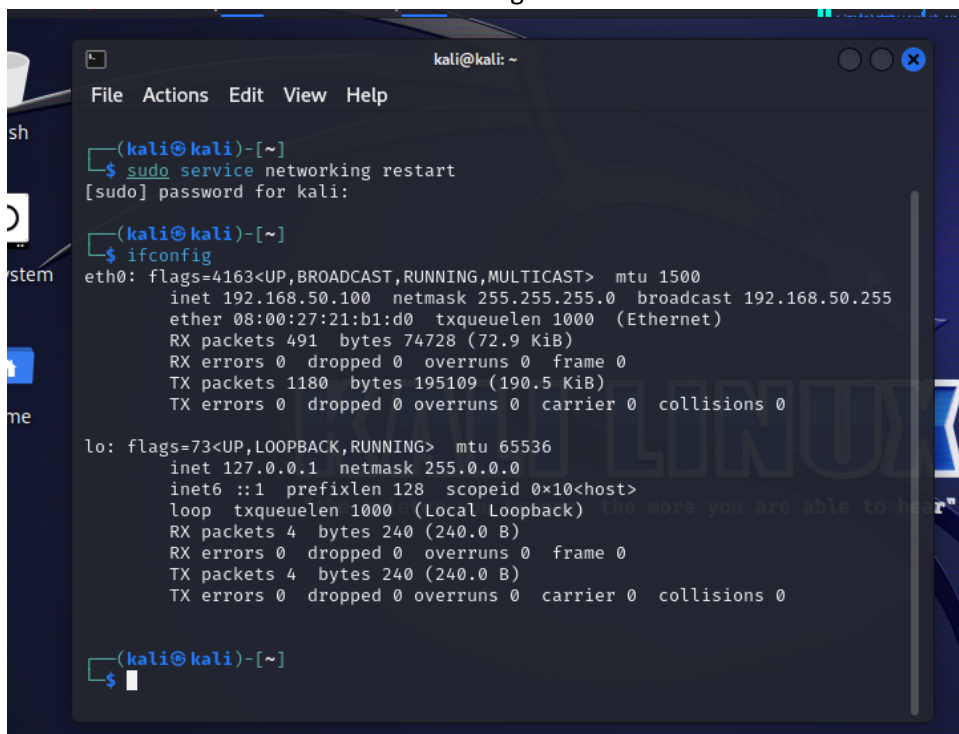
```
GNU nano 7.2 /etc/network/interfaces *
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback

auto eth0
iface eth0 inet static
address 192.168.50.100/24
gateway 192.168.50.1
```

controllo il risultato con il comando `ifconfig`



The screenshot shows a terminal window with the following commands and output:

```
(kali@kali)-[~]
$ sudo service networking restart
[sudo] password for kali:

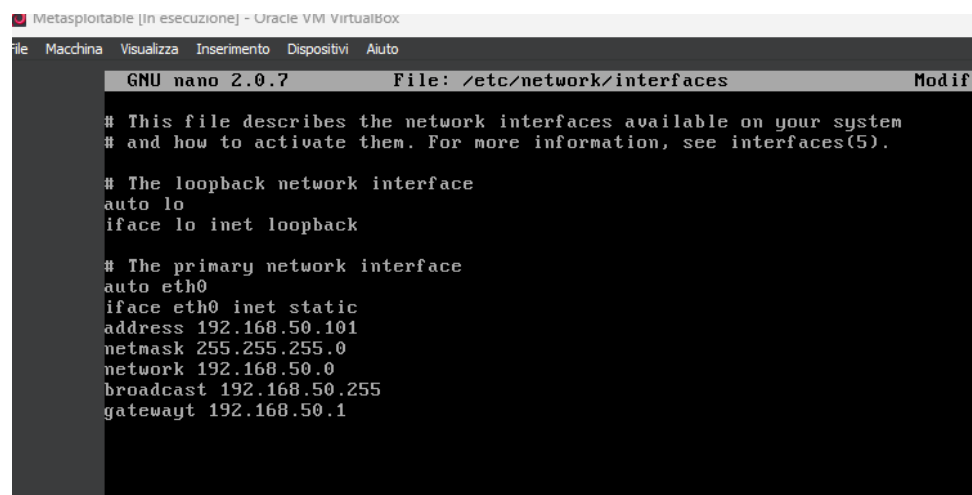
(kali@kali)-[~]
$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.50.100 netmask 255.255.255.0 broadcast 192.168.50.255
    ether 08:00:27:21:b1:d0 txqueuelen 1000 (Ethernet)
    RX packets 491 bytes 74728 (72.9 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 1180 bytes 195109 (190.5 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 4 bytes 240 (240.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 4 bytes 240 (240.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

(kali@kali)-[~]
$
```

Imposto anche su Metasploitable gli indirizzi statici tramite il comando sudo nano /etc/network/interfaces:

```
msfadmin@metasploitable:~$ sudo nano /etc/network/interfaces_
```



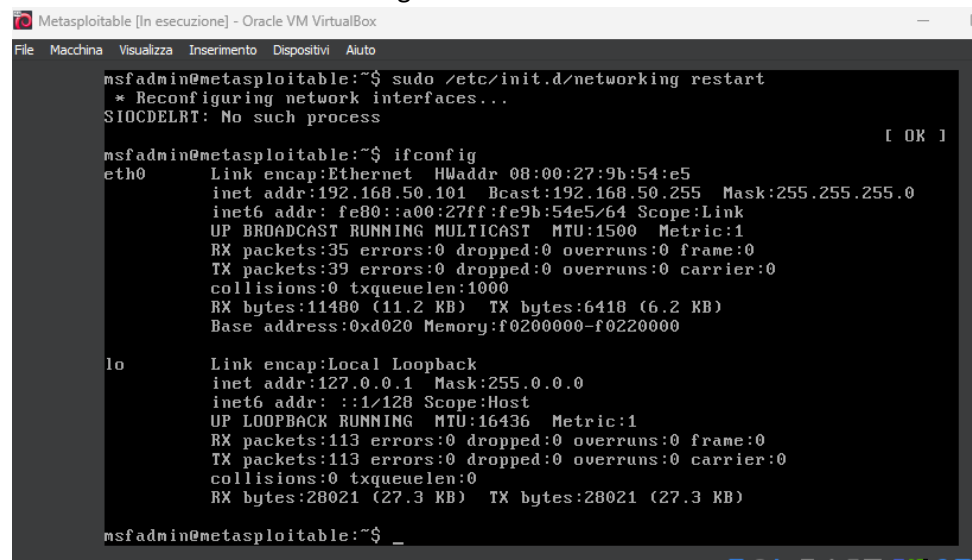
```
GNU nano 2.0.7 File: /etc/network/interfaces Modif

# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
auto eth0
iface eth0 inet static
address 192.168.50.101
netmask 255.255.255.0
network 192.168.50.0
broadcast 192.168.50.255
gatewayt 192.168.50.1
```

E infine lancio il comando ifconfig



```
msfadmin@metasploitable:~$ sudo /etc/init.d/networking restart
* Reconfiguring network interfaces...
SIOCDELRT: No such process

msfadmin@metasploitable:~$ ifconfig
eth0      Link encap:Ethernet  HWaddr 08:00:27:9b:54:e5
          inet addr:192.168.50.101  Bcast:192.168.50.255  Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fe9b:54e5/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:35 errors:0 dropped:0 overruns:0 frame:0
          TX packets:39 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:11480 (11.2 KB)  TX bytes:6418 (6.2 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:113 errors:0 dropped:0 overruns:0 frame:0
          TX packets:113 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:28021 (27.3 KB)  TX bytes:28021 (27.3 KB)

msfadmin@metasploitable:~$ _
```

Ping da windows su entrambe le macchine

```
C:\Users\Manuel>ping 192.168.50.101

Pinging 192.168.50.101 with 32 bytes of data:
Reply from 192.168.50.101: bytes=32 time=3ms TTL=64
Reply from 192.168.50.101: bytes=32 time=2ms TTL=64
Reply from 192.168.50.101: bytes=32 time<1ms TTL=64
Reply from 192.168.50.101: bytes=32 time<1ms 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 = 0ms, Maximum = 3ms, Average = 1ms

C:\Users\Manuel>S_
```

```
C:\Users\Manuel>ping 192.168.50.100

Pinging 192.168.50.100 with 32 bytes of data:
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
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 = 1ms, Average = 0ms

C:\Users\Manuel>S
```