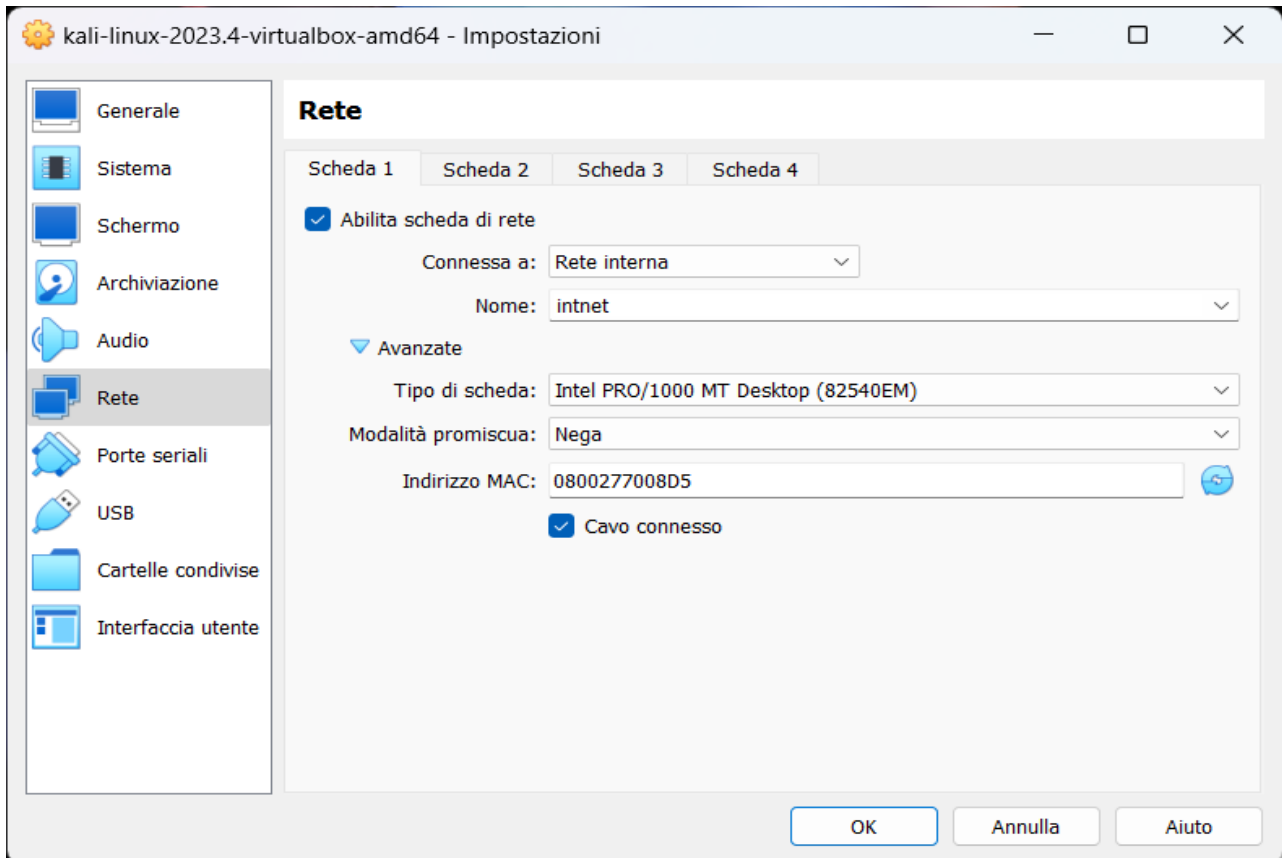


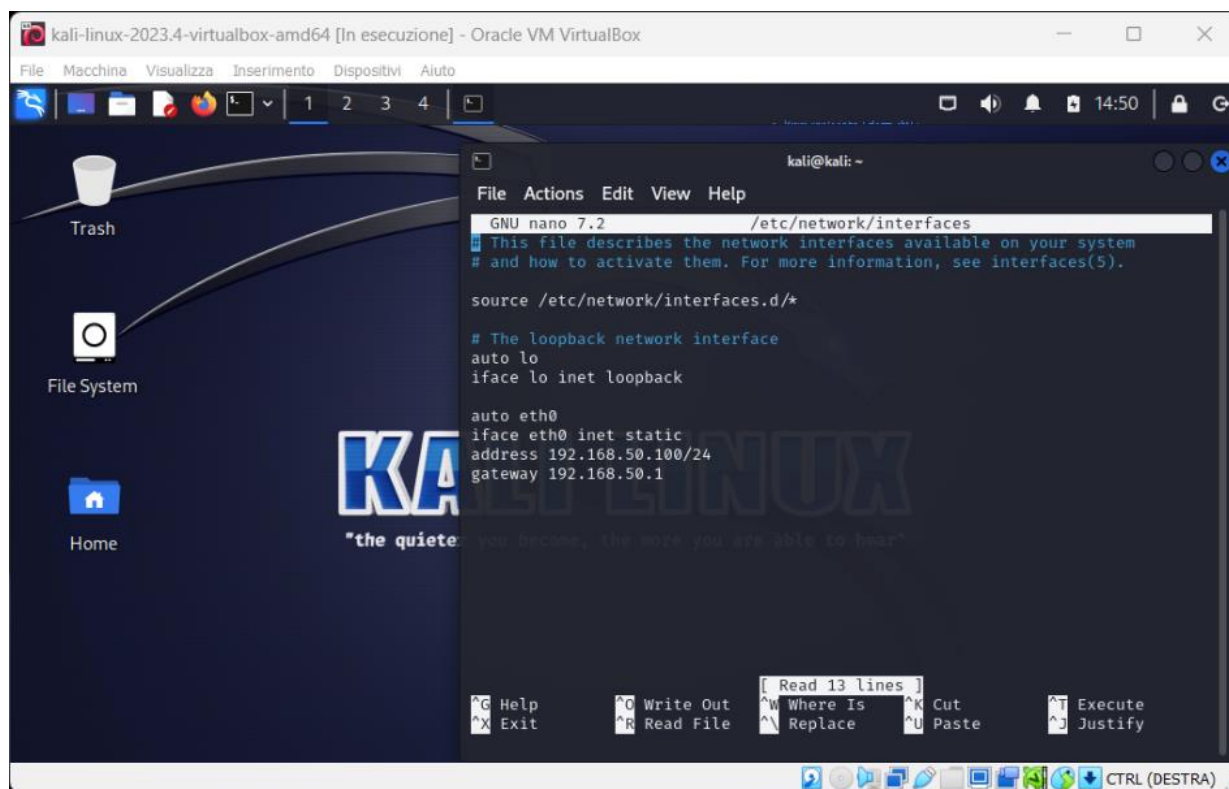
CREAZIONE E CONFIGURAZIONE LABORATORIO VIRTUALE

Scegliamo una connettività di tipo “internal” in modo che le macchine virtuali riescano a comunicare tra di loro in un ambiente isolato.



MODE	VM→ Host	VM ← Host	VM1 VM2	VM → Net/LAN	VM ← Net/LAN
Host only	+	+	+	-	-
Internal	-	-	+	-	-
Bridget	+	+	+	+	+
NAT	+	Port forward	-	+	Port forwad
NATservice	+	Port forward	+	+	Port forward

ASSEGNAZIONE DEGLI INDIRIZZI STATICI KALI LINUX



The screenshot shows the Kali Linux desktop environment within an Oracle VM VirtualBox window. The desktop background is dark blue with the Kali Linux logo and the slogan "the quieter you become, the more you are able to hear". On the left sidebar, there are icons for Trash, File System, and Home. The top menu bar includes File, Macchina, Visualizza, Inserimento, Dispositivi, and Aiuto. The system tray on the right shows the time as 14:50 and various system icons. A terminal window titled "kali@kali: ~" is open, displaying the nano 7.2 editor editing the file /etc/network/interfaces. The file content is as follows:

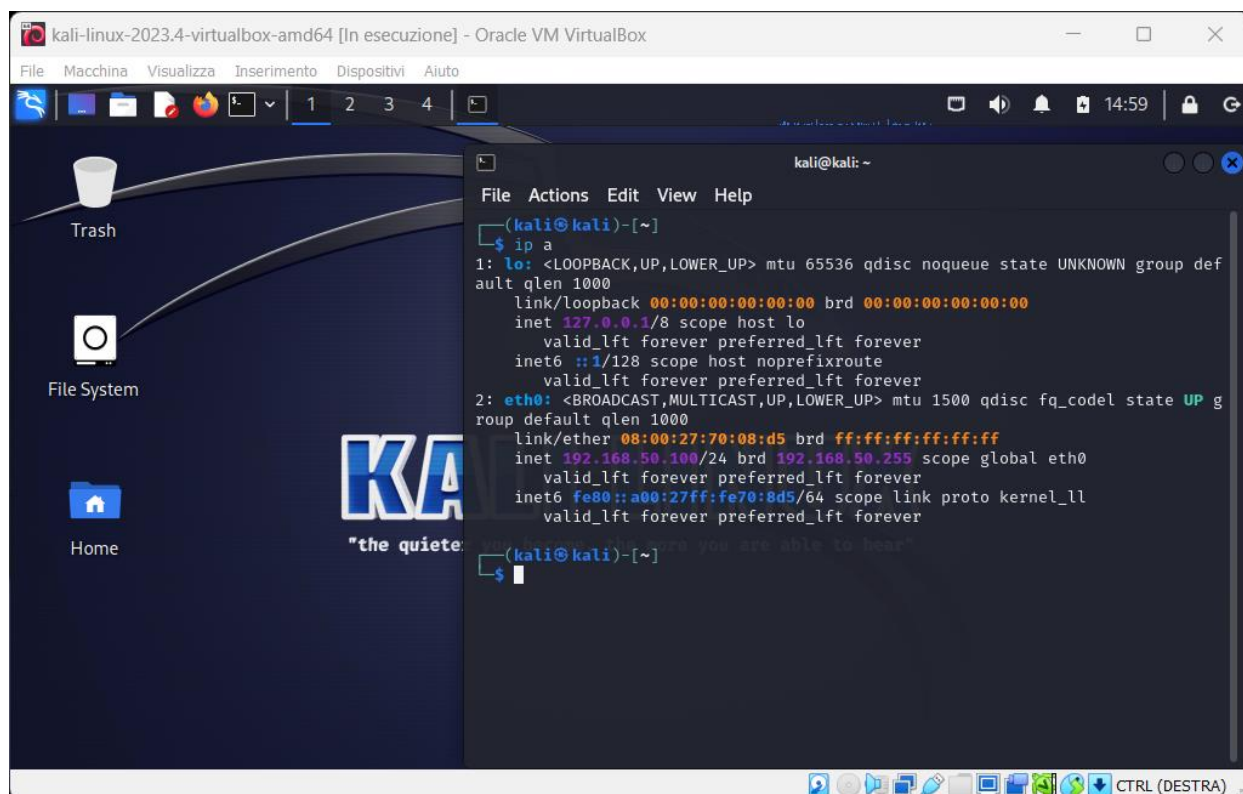
```
GNU nano 7.2 /etc/network/interfaces
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

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
```

The nano editor's status bar at the bottom shows "Read 13 lines" and various keyboard shortcuts like ^G Help, ^O Write Out, ^R Read File, ^W Where Is, ^K Cut, ^T Execute, ^X Exit, ^_ Replace, and ^U Paste.



The screenshot shows the same Kali Linux desktop environment, but the terminal window now displays the output of the command `ip a`. The output shows the configuration for the loopback interface `lo` and the ethernet interface `eth0`.

```
(kali@kali)~[~]
$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group def
    ault qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP g
    roup default qlen 1000
    link/ether 08:00:27:70:08:d5 brd ff:ff:ff:ff:ff:ff
    inet 192.168.50.100/24 brd 192.168.50.255 scope global eth0
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fe70:8d5/64 scope link proto kernel_ll
        valid_lft forever preferred_lft forever
```

The terminal prompt is now `(kali@kali)~[~]` and the cursor is on a new line.

ASSEGNAZIONE DEGLI INDIRIZZI STATICI METASPLOITABLE

```
Metaspotable [In esecuzione] - Oracle VM VirtualBox
File Macchina Visualizza Inserimento Dispositivi Aiuto
Last login: Tue May 28 08:30:35 EDT 2024 on tty1
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To access official Ubuntu documentation, please visit:
http://help.ubuntu.com/
No mail.
msfadmin@metasploitable:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        inet6 ::1/128 scope host
            valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 08:00:27:38:02:48 brd ff:ff:ff:ff:ff:ff
    inet 192.168.50.101/24 brd 192.168.50.255 scope global eth0
        inet6 fe80::a00:27ff:fe38:248/64 scope link
            valid_lft forever preferred_lft forever
msfadmin@metasploitable:~$
```

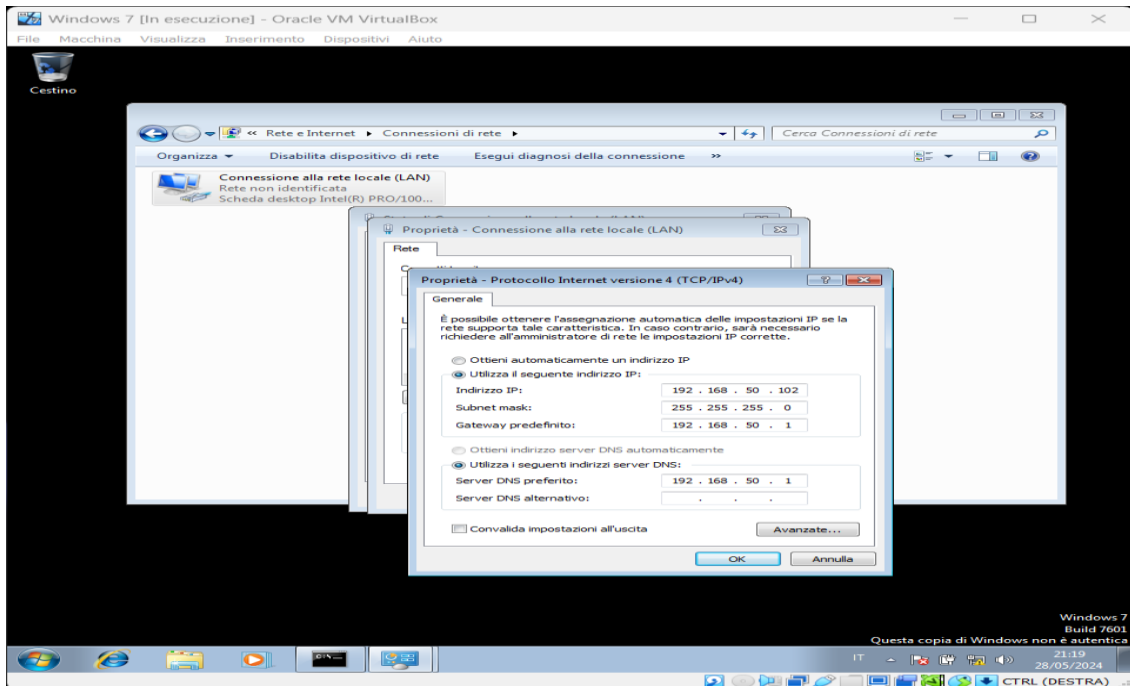
```
Metaspotable [In esecuzione] - Oracle VM VirtualBox
File Macchina Visualizza Inserimento Dispositivi Aiuto
GNU nano 2.0.7 File: /etc/network/interfaces
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

# The loopback network interface
auto lo
iface lo inet loopback

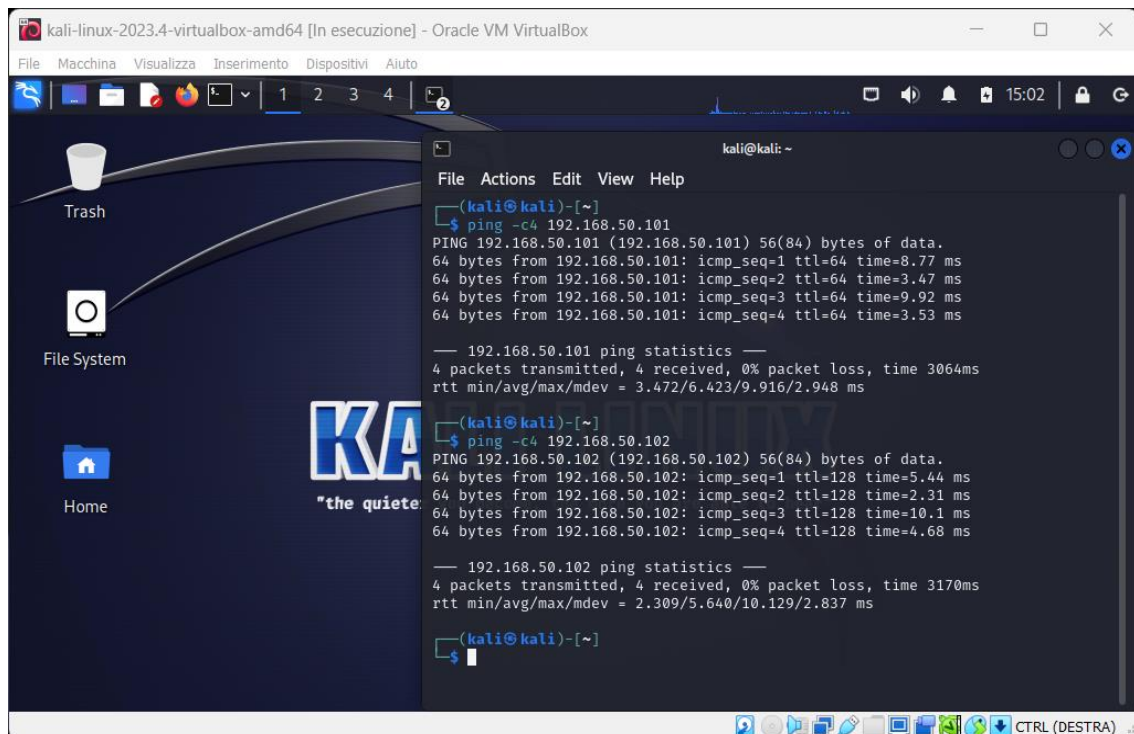
# The primary network interface
auto eth0
iface eth0 inet static
address 192.168.50.101
netmask 255.255.255.0
network 192.168.50.0
broadcast 192.168.50.255
gateway 192.168.50.1

[ Read 16 lines ]
^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos
^X Exit ^J Justify ^W Where Is ^V Next Page ^U UnCut Text ^T To Spell
CTRL (DESTRA)
```

ASSEGNAZIONE DEGLI INDIRIZZI STATICI WINDOWS 7



EVIDENZE PING TRA LE MACCHINE



```
Metaspotable [In esecuzione] - Oracle VM VirtualBox
File Macchina Visualizza Inserimento Dispositivi Aiuto

link/ether 08:00:27:38:02:48 brd ff:ff:ff:ff:ff:ff
inet 192.168.50.101/24 brd 192.168.50.255 scope global eth0
inet6 fe80::a00:27ff:fe38:248/64 scope link
    valid_lft forever preferred_lft forever
msfadmin@metasploitable:~$ ping -c4 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=20.0 ms
64 bytes from 192.168.50.100: icmp_seq=2 ttl=64 time=1.75 ms
64 bytes from 192.168.50.100: icmp_seq=3 ttl=64 time=2.08 ms
64 bytes from 192.168.50.100: icmp_seq=4 ttl=64 time=1.85 ms

--- 192.168.50.100 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 2997ms
rtt min/avg/max/mdev = 1.759/6.445/20.083/7.874 ms
msfadmin@metasploitable:~$ ping -c4 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=26.9 ms
64 bytes from 192.168.50.102: icmp_seq=2 ttl=128 time=1.99 ms
64 bytes from 192.168.50.102: icmp_seq=3 ttl=128 time=2.04 ms
64 bytes from 192.168.50.102: icmp_seq=4 ttl=128 time=2.07 ms

--- 192.168.50.102 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3000ms
rtt min/avg/max/mdev = 1.996/8.265/26.946/10.785 ms
msfadmin@metasploitable:~$
```

```
Windows 7 [In esecuzione] - Oracle VM VirtualBox
File Macchina Visualizza Inserimento Dispositivi Aiuto

C:\Windows\system32\cmd.exe
Microsoft Windows [Versione 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. Tutti i diritti riservati.

C:\Users\User>ping 192.168.50.100

Esecuzione di Ping 192.168.50.100 con 32 byte di dati:
Risposta da 192.168.50.100: byte=32 durata=4ms TTL=64
Risposta da 192.168.50.100: byte=32 durata=8ms TTL=64
Risposta da 192.168.50.100: byte=32 durata=1ms TTL=64
Risposta da 192.168.50.100: byte=32 durata=2ms TTL=64

Statistiche Ping per 192.168.50.100:
    Pacchetti: Trasmessi = 4, Ricevuti = 4,
    Persi = 0 (0% persi),
    Tempo approssimativo percorsi andata/ritorno in millisecondi:
        Minimo = 1ms, Massimo = 8ms, Medio = 3ms

C:\Users\User>ping 192.168.50.101

Esecuzione di Ping 192.168.50.101 con 32 byte di dati:
Risposta da 192.168.50.101: byte=32 durata=3ms TTL=64
Risposta da 192.168.50.101: byte=32 durata=11ms TTL=64
Risposta da 192.168.50.101: byte=32 durata=3ms TTL=64
Risposta da 192.168.50.101: byte=32 durata=2ms TTL=64

Statistiche Ping per 192.168.50.101:
    Pacchetti: Trasmessi = 4, Ricevuti = 4,
    Persi = 0 (0% persi),
    Tempo approssimativo percorsi andata/ritorno in millisecondi:
        Minimo = 2ms, Massimo = 11ms, Medio = 4ms

C:\Users\User>_
```