

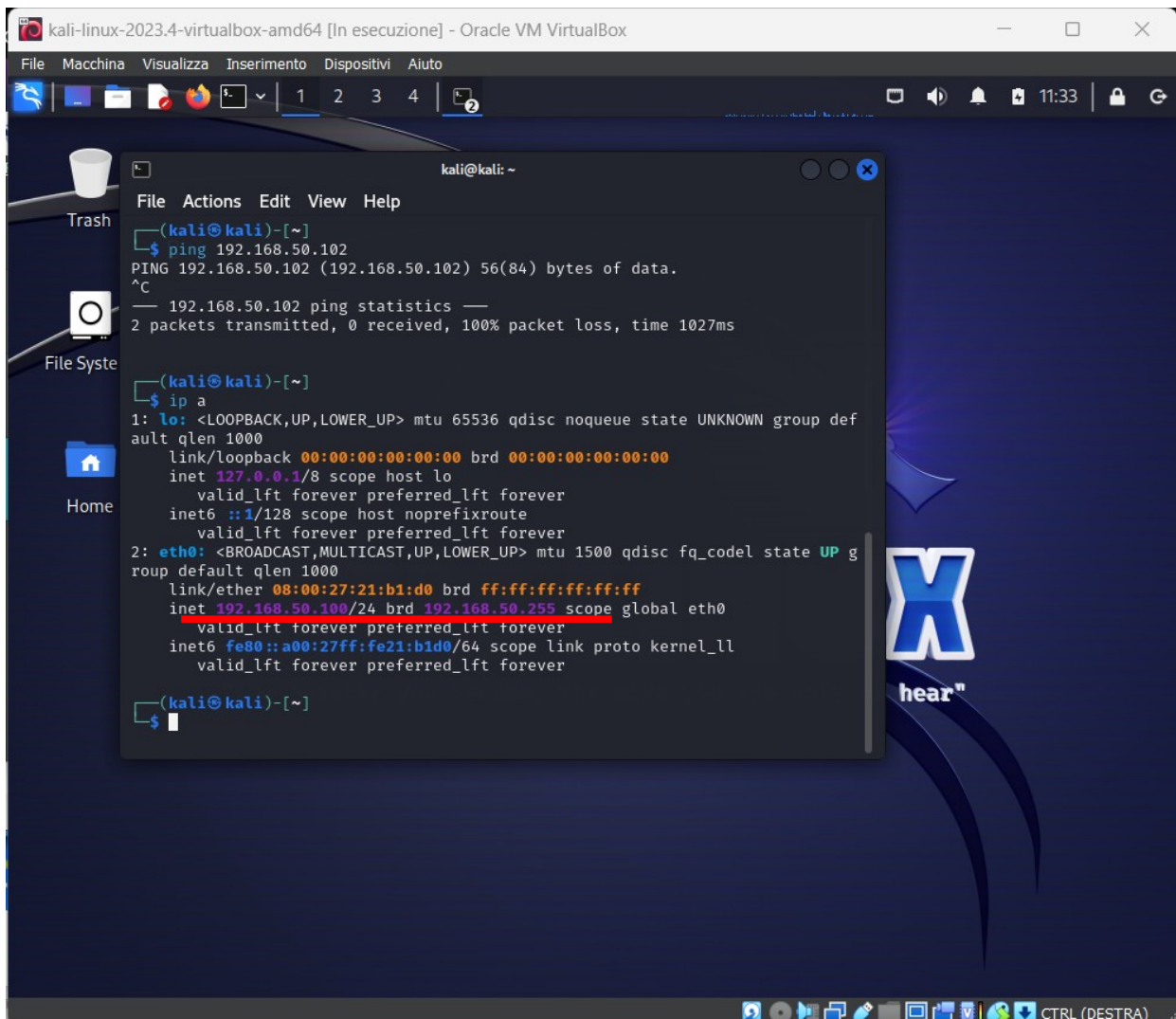
Creazione e configurazione laboratorio virtuale

Manuel Di Gangi

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- 1) Download ed installazione di Oracle VM VirtualBox, per la creazione di macchine virtuali.
- 2) Download dei file .iso e creazione macchine virtuali.
- 3) Configurazione delle macchine.
- 4) Impostazione indirizzi IP statici

- Kali Linux
 1. Apro il file con gli indirizzi di rete
\$ sudo nano /etc/network/interfaces
 2. Modifico il file
auto eth0
iface eth0 inet static
address 192.168.50.100/24
gateway 192.168.50.1
 3. Riavvio della macchina
\$ sudo reboot



- Metasploitable 2
 1. Apro il file con gli indirizzi di rete
\$ sudo /etc/network/interfaces
 2. Modifico il file
auto eth0
iface eth0 inet static
address 192.168.50.100
netmask 255.255.255.0
network 192.168.50.0
broadcast 192.168.50.255
gateway 92.168.50.1
 1. dns-nameserver 192.168.50.4 192.168.50.15
 3. Riavvio i servizi di rete
\$ sudo /etc/init.d/networking restart

```

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

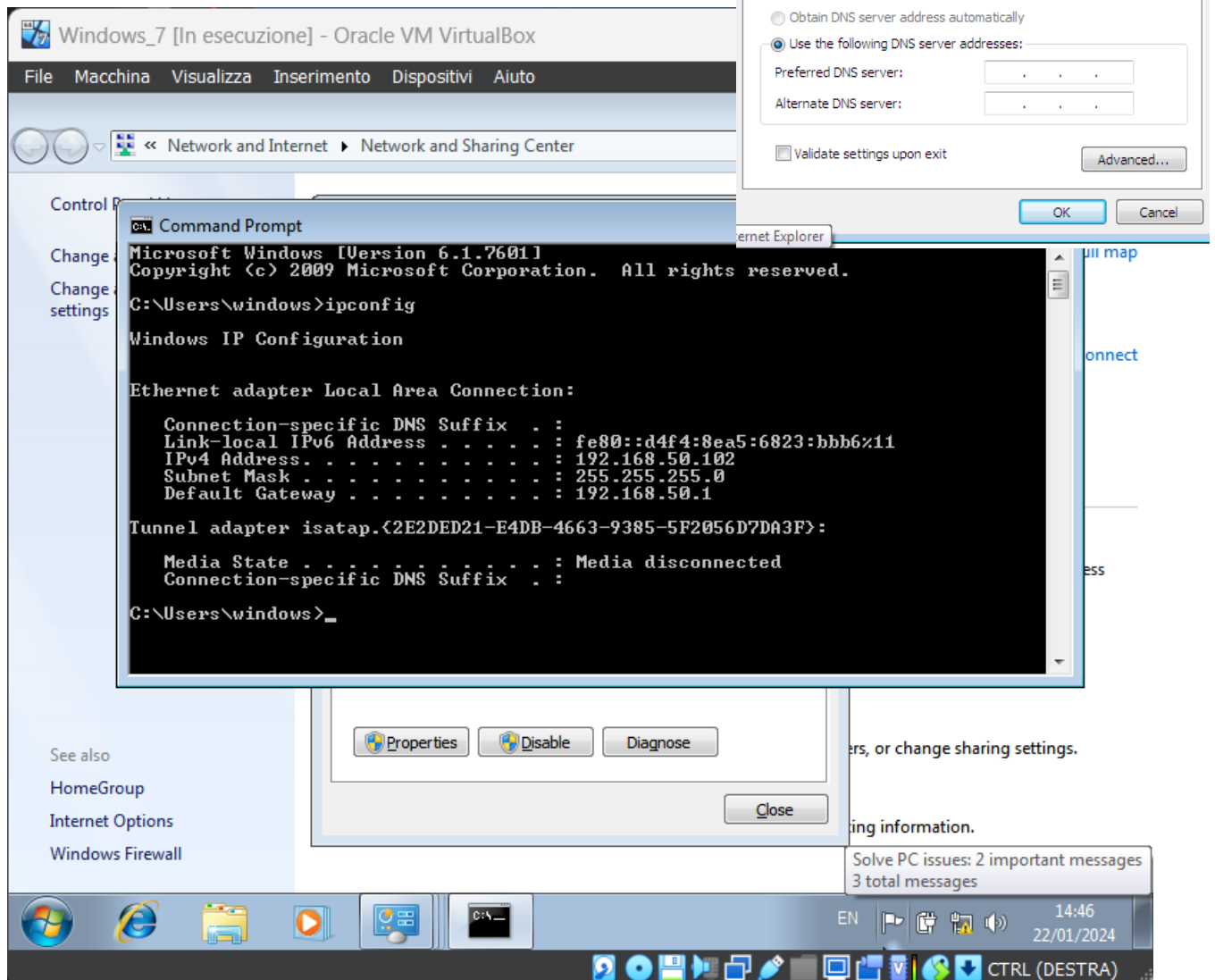
--- 192.168.50.100 ping statistics ---
5 packets transmitted, 0 received, +3 errors, 100% packet loss, time 401ms
, pipe 3
msfadmin@metasploitable:~$ ifconfig
eth0      Link encap:Ethernet  HWaddr 08:00:27:a4:0f:35
          inet addr:192.168.50.101  Bcast:192.168.50.255  Mask:255.255.255.0
          inet6 addr: fe80::a00:2711:ea4:f35/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:45 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:0 (0.0 B)  TX bytes:3710 (3.6 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:119 errors:0 dropped:0 overruns:0 frame:0
          TX packets:119 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:28689 (28.0 KB)  TX bytes:28689 (28.0 KB)

msfadmin@metasploitable:~$

```

- Windows 7
 1. tasto destro icona di rete sulla barra start – centro connessioni di rete e condivisione
 2. Modifica impostazioni scheda
 3. Proprietà
 4. Internet protocol version 4

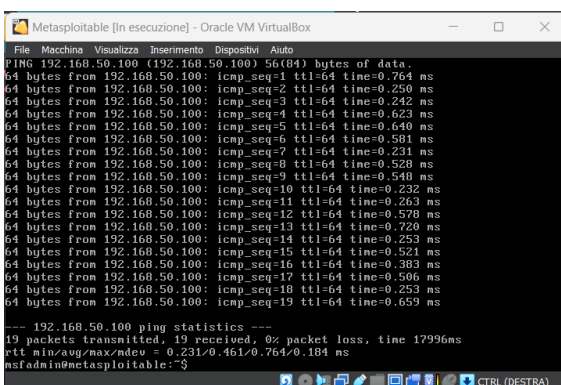


5) Impostazione delle schede di rete delle Virtual Machine in modalità internal

6) Ping degli indirizzi per verificare che le macchine siano nella condizione di comunicare tra di loro tramite il relativo comando

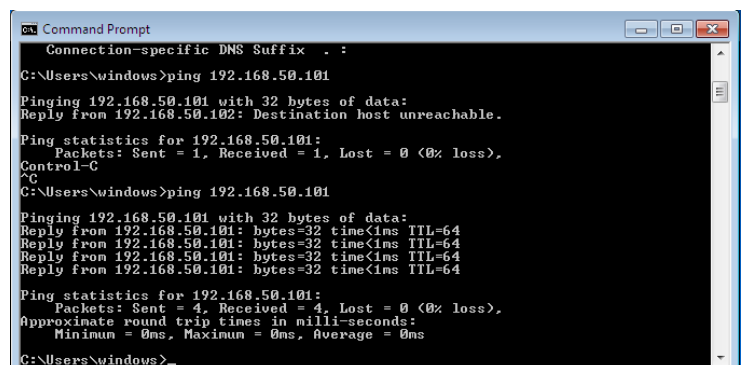
es. ping 192.168.50.100

```
(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=0.511 ms  
64 bytes from 192.168.50.101: icmp_seq=2 ttl=64 time=0.276 ms  
64 bytes from 192.168.50.101: icmp_seq=3 ttl=64 time=0.260 ms  
64 bytes from 192.168.50.101: icmp_seq=4 ttl=64 time=0.273 ms  
64 bytes from 192.168.50.101: icmp_seq=5 ttl=64 time=0.345 ms  
^C
```



Metasploitable [in esecuzione] - Oracle VM VirtualBox

```
File Macchina Visualizza Inserimento Dispositivi Aiuto  
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=0.764 ms  
64 bytes from 192.168.50.100: icmp_seq=2 ttl=64 time=0.259 ms  
64 bytes from 192.168.50.100: icmp_seq=3 ttl=64 time=0.242 ms  
64 bytes from 192.168.50.100: icmp_seq=4 ttl=64 time=0.623 ms  
64 bytes from 192.168.50.100: icmp_seq=5 ttl=64 time=0.640 ms  
64 bytes from 192.168.50.100: icmp_seq=6 ttl=64 time=0.501 ms  
64 bytes from 192.168.50.100: icmp_seq=7 ttl=64 time=0.231 ms  
64 bytes from 192.168.50.100: icmp_seq=8 ttl=64 time=0.528 ms  
64 bytes from 192.168.50.100: icmp_seq=9 ttl=64 time=0.548 ms  
64 bytes from 192.168.50.100: icmp_seq=10 ttl=64 time=0.232 ms  
64 bytes from 192.168.50.100: icmp_seq=11 ttl=64 time=0.263 ms  
64 bytes from 192.168.50.100: icmp_seq=12 ttl=64 time=0.578 ms  
64 bytes from 192.168.50.100: icmp_seq=13 ttl=64 time=0.720 ms  
64 bytes from 192.168.50.100: icmp_seq=14 ttl=64 time=0.253 ms  
64 bytes from 192.168.50.100: icmp_seq=15 ttl=64 time=0.521 ms  
64 bytes from 192.168.50.100: icmp_seq=16 ttl=64 time=0.383 ms  
64 bytes from 192.168.50.100: icmp_seq=17 ttl=64 time=0.506 ms  
64 bytes from 192.168.50.100: icmp_seq=18 ttl=64 time=0.253 ms  
64 bytes from 192.168.50.100: icmp_seq=19 ttl=64 time=0.659 ms  
--- 192.168.50.100 ping statistics ---  
19 packets transmitted, 19 received, 0% packet loss, time 17996ms  
rtt min/avg/max/mdev = 0.231/0.461/0.764/0.184 ms  
msfadmin@metasploitable:~$
```



Command Prompt

```
Connection-specific DNS Suffix . :  
C:\Users\windows>ping 192.168.50.101  
Pinging 192.168.50.101 with 32 bytes of data:  
Reply from 192.168.50.102: Destination host unreachable.  
Ping statistics for 192.168.50.101:  
Packets: Sent = 1, Received = 1, Lost = 0 (0% loss),  
Control-C  
^C  
C:\Users\windows>ping 192.168.50.101  
Pinging 192.168.50.101 with 32 bytes of data:  
Reply from 192.168.50.101: bytes=32 time<1ms 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  
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 = 0ms, Average = 0ms  
C:\Users\windows>
```