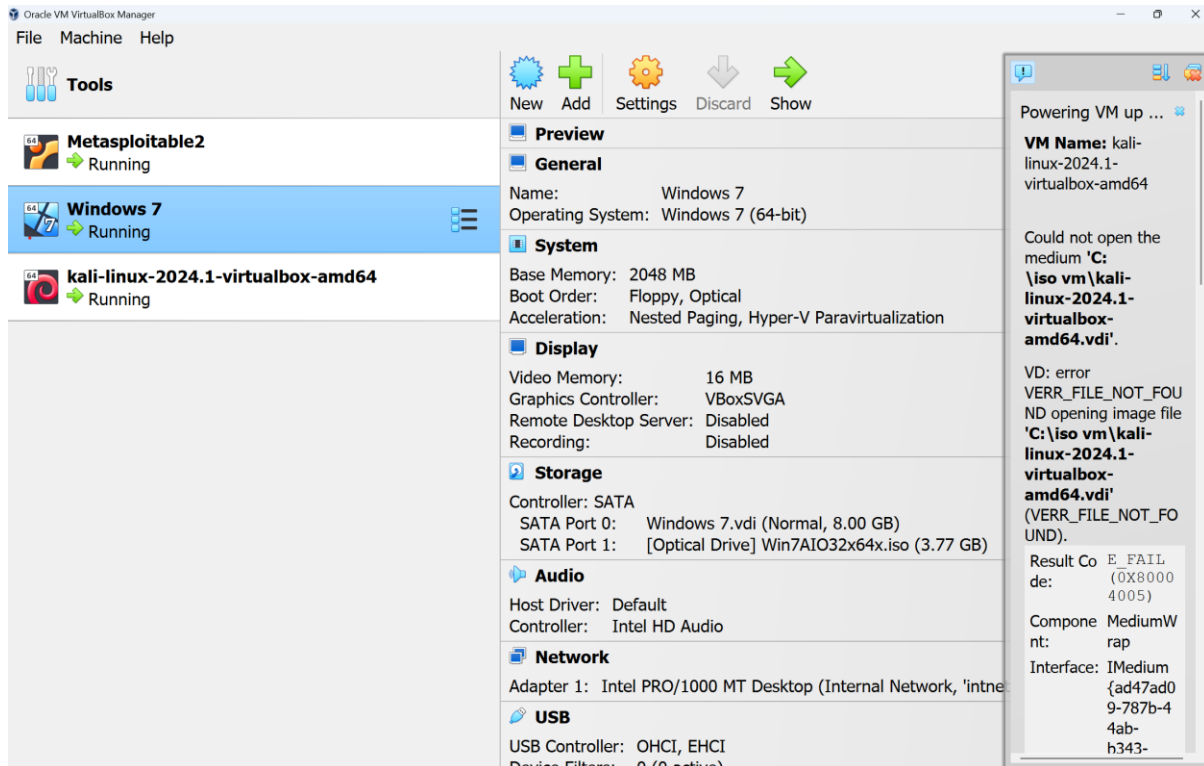


Consegna W1D4

1. Installazione Virtual Box

Creazione delle machine virtuali



2. Impostazione IP statici e ping tra macchine

- Kali

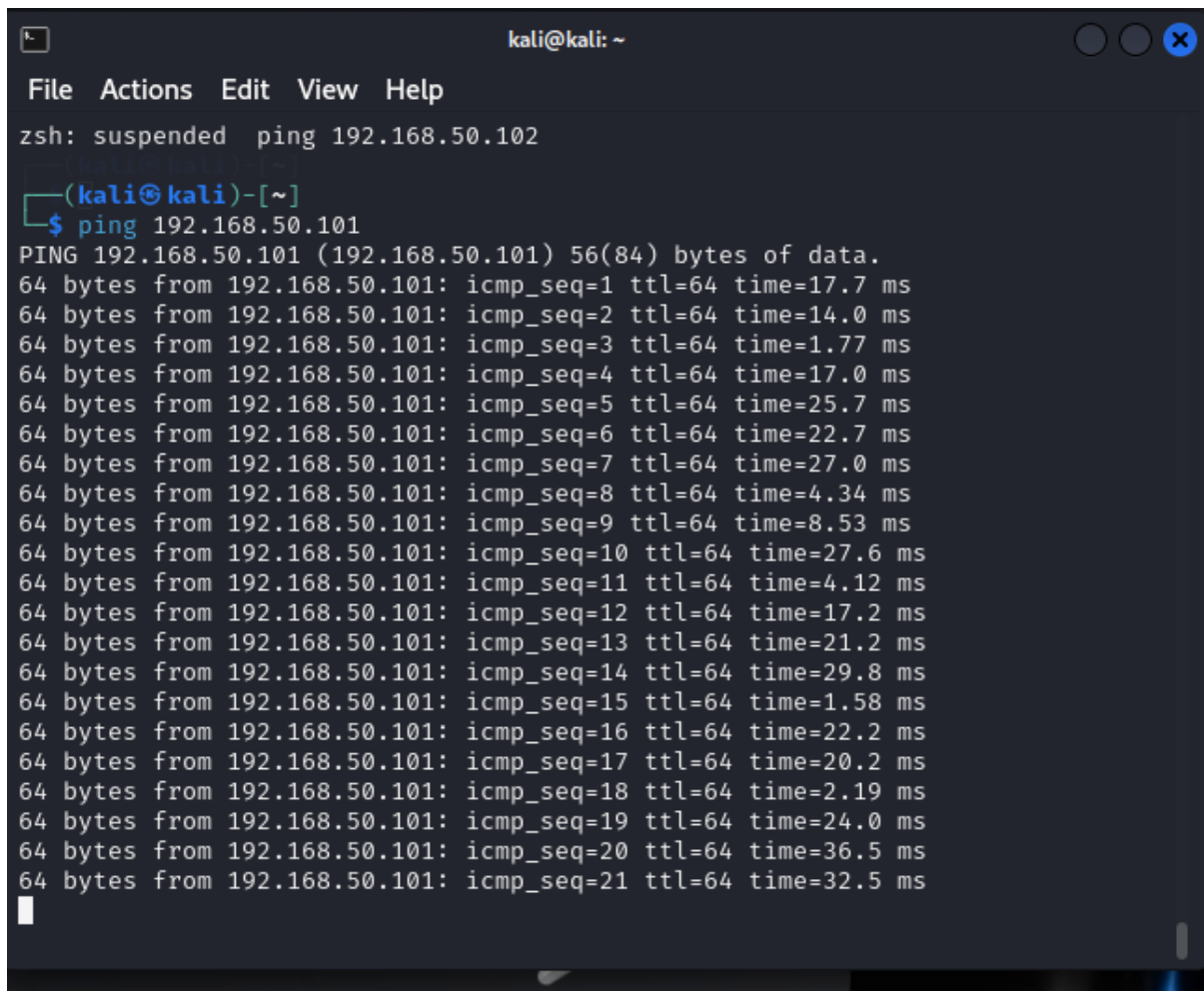
```
kali@kali: ~  
File Actions Edit View Help  
64 bytes from 192.168.50.101: icmp_seq=12189 ttl=64 time=1.53 ms  
^Z  
zsh: suspended ping 192.168.50.101  
  
(kali@kali)-[~]  
$ ifconfig  
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500  
    inet 192.168.50.100 netmask 255.255.255.0 broadcast 192.168.50.255  
    inet6 fe80::a00:27ff:fe1e:364a prefixlen 64 scopeid 0x20<link>  
    ether 08:00:27:1e:36:4a txqueuelen 1000 (Ethernet)  
    RX packets 13189 bytes 1274384 (1.2 MiB)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 12975 bytes 1253040 (1.1 MiB)  
    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 42 bytes 4496 (4.3 KiB)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 42 bytes 4496 (4.3 KiB)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
(kali@kali)-[~]  
$
```

Ping macchina Kali verso macchina windows 7

```
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=1.42 ms  
64 bytes from 192.168.50.102: icmp_seq=2 ttl=128 time=2.98 ms  
64 bytes from 192.168.50.102: icmp_seq=3 ttl=128 time=1.47 ms  
64 bytes from 192.168.50.102: icmp_seq=4 ttl=128 time=1.47 ms  
64 bytes from 192.168.50.102: icmp_seq=5 ttl=128 time=1.66 ms  
64 bytes from 192.168.50.102: icmp_seq=6 ttl=128 time=8.55 ms  
64 bytes from 192.168.50.102: icmp_seq=7 ttl=128 time=1.14 ms  
64 bytes from 192.168.50.102: icmp_seq=8 ttl=128 time=1.44 ms  
64 bytes from 192.168.50.102: icmp_seq=9 ttl=128 time=1.83 ms  
64 bytes from 192.168.50.102: icmp_seq=10 ttl=128 time=1.24 ms  
64 bytes from 192.168.50.102: icmp_seq=11 ttl=128 time=1.28 ms  
64 bytes from 192.168.50.102: icmp_seq=12 ttl=128 time=2.13 ms  
64 bytes from 192.168.50.102: icmp_seq=13 ttl=128 time=1.75 ms  
64 bytes from 192.168.50.102: icmp_seq=14 ttl=128 time=1.53 ms  
64 bytes from 192.168.50.102: icmp_seq=15 ttl=128 time=1.45 ms  
64 bytes from 192.168.50.102: icmp_seq=16 ttl=128 time=1.07 ms  
64 bytes from 192.168.50.102: icmp_seq=17 ttl=128 time=1.27 ms  
64 bytes from 192.168.50.102: icmp_seq=18 ttl=128 time=1.43 ms  
64 bytes from 192.168.50.102: icmp_seq=19 ttl=128 time=1.29 ms  
64 bytes from 192.168.50.102: icmp_seq=20 ttl=128 time=1.57 ms  
64 bytes from 192.168.50.102: icmp_seq=21 ttl=128 time=1.45 ms  
64 bytes from 192.168.50.102: icmp_seq=22 ttl=128 time=1.93 ms  
64 bytes from 192.168.50.102: icmp_seq=23 ttl=128 time=1.86 ms  
64 bytes from 192.168.50.102: icmp_seq=24 ttl=128 time=1.57 ms  
64 bytes from 192.168.50.102: icmp_seq=25 ttl=128 time=1.64 ms  
█
```

```
kali@kali: ~  
File Actions Edit View Help  
zsh: suspended ping 192.168.50.102  
  
(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=17.7 ms  
64 bytes from 192.168.50.101: icmp_seq=2 ttl=64 time=14.0 ms  
64 bytes from 192.168.50.101: icmp_seq=3 ttl=64 time=1.77 ms  
64 bytes from 192.168.50.101: icmp_seq=4 ttl=64 time=17.0 ms  
64 bytes from 192.168.50.101: icmp_seq=5 ttl=64 time=25.7 ms  
64 bytes from 192.168.50.101: icmp_seq=6 ttl=64 time=22.7 ms  
64 bytes from 192.168.50.101: icmp_seq=7 ttl=64 time=27.0 ms  
64 bytes from 192.168.50.101: icmp_seq=8 ttl=64 time=4.34 ms  
64 bytes from 192.168.50.101: icmp_seq=9 ttl=64 time=8.53 ms  
64 bytes from 192.168.50.101: icmp_seq=10 ttl=64 time=27.6 ms  
64 bytes from 192.168.50.101: icmp_seq=11 ttl=64 time=4.12 ms  
64 bytes from 192.168.50.101: icmp_seq=12 ttl=64 time=17.2 ms  
64 bytes from 192.168.50.101: icmp_seq=13 ttl=64 time=21.2 ms  
64 bytes from 192.168.50.101: icmp_seq=14 ttl=64 time=29.8 ms  
64 bytes from 192.168.50.101: icmp_seq=15 ttl=64 time=1.58 ms  
64 bytes from 192.168.50.101: icmp_seq=16 ttl=64 time=22.2 ms  
64 bytes from 192.168.50.101: icmp_seq=17 ttl=64 time=20.2 ms  
64 bytes from 192.168.50.101: icmp_seq=18 ttl=64 time=2.19 ms  
64 bytes from 192.168.50.101: icmp_seq=19 ttl=64 time=24.0 ms  
64 bytes from 192.168.50.101: icmp_seq=20 ttl=64 time=36.5 ms  
64 bytes from 192.168.50.101: icmp_seq=21 ttl=64 time=32.5 ms  
█
```

Ping macchina Kali verso macchina Metasploitable



The screenshot shows a terminal window titled 'kali@kali: ~'. The menu bar includes 'File', 'Actions', 'Edit', 'View', and 'Help'. The prompt is 'zsh: suspended ping 192.168.50.102'. The user enters the command 'ping 192.168.50.101'. The output shows 21 successful ping requests, each with 64 bytes of data and a TTL of 64. The response times vary, with the last few requests showing significantly higher times (up to 36.5 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=17.7 ms  
64 bytes from 192.168.50.101: icmp_seq=2 ttl=64 time=14.0 ms  
64 bytes from 192.168.50.101: icmp_seq=3 ttl=64 time=1.77 ms  
64 bytes from 192.168.50.101: icmp_seq=4 ttl=64 time=17.0 ms  
64 bytes from 192.168.50.101: icmp_seq=5 ttl=64 time=25.7 ms  
64 bytes from 192.168.50.101: icmp_seq=6 ttl=64 time=22.7 ms  
64 bytes from 192.168.50.101: icmp_seq=7 ttl=64 time=27.0 ms  
64 bytes from 192.168.50.101: icmp_seq=8 ttl=64 time=4.34 ms  
64 bytes from 192.168.50.101: icmp_seq=9 ttl=64 time=8.53 ms  
64 bytes from 192.168.50.101: icmp_seq=10 ttl=64 time=27.6 ms  
64 bytes from 192.168.50.101: icmp_seq=11 ttl=64 time=4.12 ms  
64 bytes from 192.168.50.101: icmp_seq=12 ttl=64 time=17.2 ms  
64 bytes from 192.168.50.101: icmp_seq=13 ttl=64 time=21.2 ms  
64 bytes from 192.168.50.101: icmp_seq=14 ttl=64 time=29.8 ms  
64 bytes from 192.168.50.101: icmp_seq=15 ttl=64 time=1.58 ms  
64 bytes from 192.168.50.101: icmp_seq=16 ttl=64 time=22.2 ms  
64 bytes from 192.168.50.101: icmp_seq=17 ttl=64 time=20.2 ms  
64 bytes from 192.168.50.101: icmp_seq=18 ttl=64 time=2.19 ms  
64 bytes from 192.168.50.101: icmp_seq=19 ttl=64 time=24.0 ms  
64 bytes from 192.168.50.101: icmp_seq=20 ttl=64 time=36.5 ms  
64 bytes from 192.168.50.101: icmp_seq=21 ttl=64 time=32.5 ms  
█
```

- Metasploitable

```
Metasploitable2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

To access official Ubuntu documentation, please visit:
http://help.ubuntu.com/
No mail.
msfadmin@metasploitable:~$ ifconfig
eth0      Link encap:Ethernet  HWaddr 08:00:27:32:ac:1b
          inet addr:192.168.50.101 Bcast:192.168.50.255 Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fe32:ac1b/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:63 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:0 (0.0 B)  TX bytes:4466 (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: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:23097 (22.5 KB)  TX bytes:23097 (22.5 KB)

msfadmin@metasploitable:~$ _
```

Ping metasploitable verso machina kali

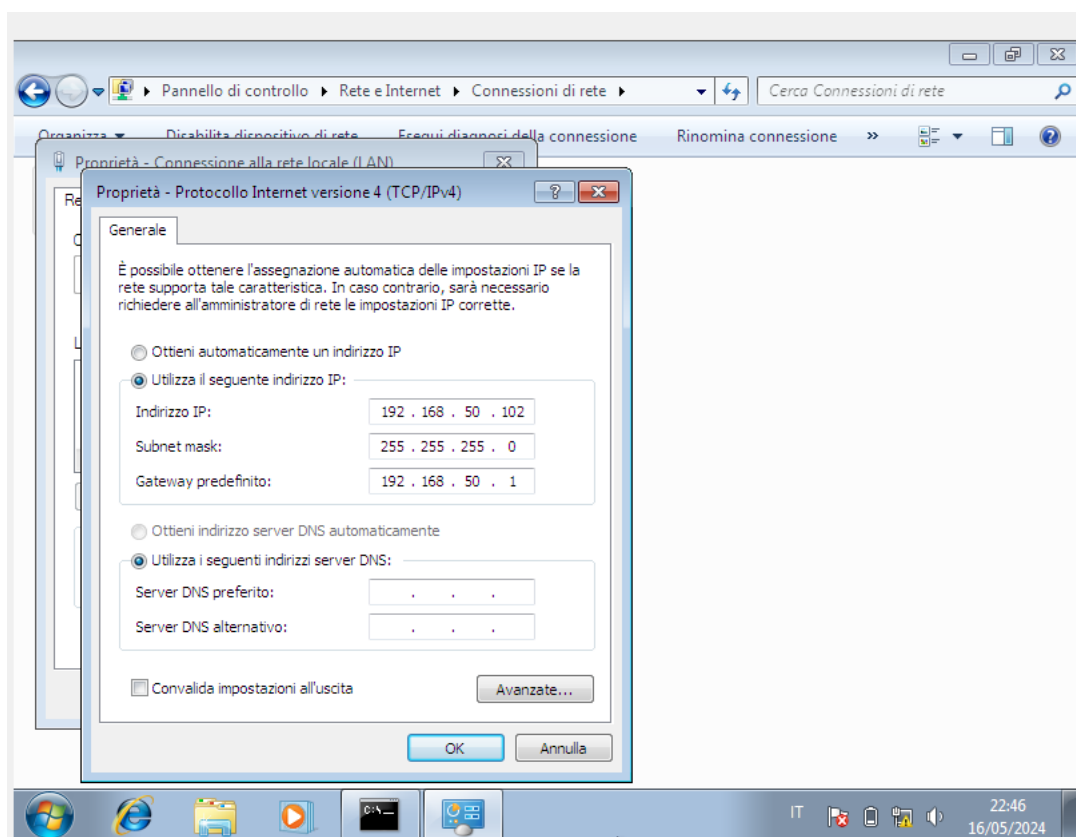
```
Metasploitable2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

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:23097 (22.5 KB)  TX bytes:23097 (22.5 KB)

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=12.2 ms
64 bytes from 192.168.50.100: icmp_seq=2 ttl=64 time=1.37 ms
64 bytes from 192.168.50.100: icmp_seq=3 ttl=64 time=1.71 ms
64 bytes from 192.168.50.100: icmp_seq=4 ttl=64 time=2.85 ms
64 bytes from 192.168.50.100: icmp_seq=5 ttl=64 time=1.88 ms
64 bytes from 192.168.50.100: icmp_seq=6 ttl=64 time=1.57 ms
64 bytes from 192.168.50.100: icmp_seq=7 ttl=64 time=2.10 ms
64 bytes from 192.168.50.100: icmp_seq=8 ttl=64 time=2.66 ms
64 bytes from 192.168.50.100: icmp_seq=9 ttl=64 time=2.83 ms
64 bytes from 192.168.50.100: icmp_seq=10 ttl=64 time=0.94 ms
64 bytes from 192.168.50.100: icmp_seq=11 ttl=64 time=1.90 ms
64 bytes from 192.168.50.100: icmp_seq=12 ttl=64 time=1.60 ms
```

```
Metasploitable2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
64 bytes from 192.168.50.100: icmp_seq=30 ttl=64 time=1.63 ms
[11+ Stopped ping 192.168.50.100
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=53 ttl=128 time=5.50 ms
64 bytes from 192.168.50.102: icmp_seq=54 ttl=128 time=1.70 ms
64 bytes from 192.168.50.102: icmp_seq=55 ttl=128 time=3.36 ms
64 bytes from 192.168.50.102: icmp_seq=56 ttl=128 time=1.44 ms
64 bytes from 192.168.50.102: icmp_seq=57 ttl=128 time=1.70 ms
64 bytes from 192.168.50.102: icmp_seq=58 ttl=128 time=1.62 ms
64 bytes from 192.168.50.102: icmp_seq=59 ttl=128 time=1.16 ms
64 bytes from 192.168.50.102: icmp_seq=60 ttl=128 time=2.66 ms
64 bytes from 192.168.50.102: icmp_seq=61 ttl=128 time=1.46 ms
64 bytes from 192.168.50.102: icmp_seq=62 ttl=128 time=1.52 ms
64 bytes from 192.168.50.102: icmp_seq=63 ttl=128 time=1.29 ms
64 bytes from 192.168.50.102: icmp_seq=64 ttl=128 time=1.39 ms
64 bytes from 192.168.50.102: icmp_seq=65 ttl=128 time=1.69 ms
64 bytes from 192.168.50.102: icmp_seq=66 ttl=128 time=1.61 ms
64 bytes from 192.168.50.102: icmp_seq=67 ttl=128 time=2.41 ms
64 bytes from 192.168.50.102: icmp_seq=68 ttl=128 time=2.60 ms
64 bytes from 192.168.50.102: icmp_seq=69 ttl=128 time=1.16 ms
64 bytes from 192.168.50.102: icmp_seq=70 ttl=128 time=3.09 ms
64 bytes from 192.168.50.102: icmp_seq=71 ttl=128 time=1.16 ms
```

- Windows 7



Ping macchina windows verso machine Kali e Metasploitable

```
Ca. Prompt dei comandi
Microsoft Windows [Versione 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. Tutti i diritti riservati.

C:\Users\admin>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=7ms TTL=64
Risposta da 192.168.50.100: byte=32 durata=1ms TTL=64
Risposta da 192.168.50.100: byte=32 durata=1ms TTL=64
Risposta da 192.168.50.100: byte=32 durata=1ms 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 = 7ms, Medio = 2ms

C:\Users\admin>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=20ms TTL=64
Risposta da 192.168.50.101: byte=32 durata=18ms TTL=64
Risposta da 192.168.50.101: byte=32 durata=2ms TTL=64
Risposta da 192.168.50.101: byte=32 durata=26ms 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 = 26ms, Medio = 16ms

C:\Users\admin>
```