

The background features abstract, organic shapes in shades of purple and blue. A large, irregular shape dominates the right side, with a smaller circular shape above it and another irregular shape at the bottom right.

# ESERCITAZIONE

n° 1

creazione laboratorio virtuale

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# configurazione VM win7

The image shows the Oracle VM VirtualBox Manager interface. On the left, a list of VMs includes 'kali-linux-2023.3-virtualbox-amd64', 'Ubuntu2', 'win7' (selected), and 'metasploitable'. The main pane displays the configuration for the 'win7' VM, which is currently running. The configuration is organized into several sections: Generale, Sistema, Schermo, Archiviazione, Audio, Rete, USB, Cartelle condivise, and Descrizione. The 'win7' VM is configured with 4096 MB of base memory, 2 processors, and a hard disk of 32.00 GB. The 'Archiviazione' section shows the SATA controller and the hard disk configuration. The 'Audio' section shows the Intel HD Audio controller. The 'Rete' section shows the Intel PRO/1000 MT Desktop (NAT) network adapter. The 'USB' section shows the OHCI, EHCI controller. The 'Cartelle condivise' section shows no shared folders. The 'Descrizione' section shows no description. On the right, a preview window shows the Windows 7 desktop. In the foreground, a Windows 7 command prompt window is open, displaying the output of the 'ipconfig' command. The output shows the IP configuration for the 'Local Area Connection' and the 'isatap' adapter.

Oracle VM VirtualBox Gestore

File Macchina Aiuto

Strumenti

kali-linux-2023.3-virtualbox-amd64 In esecuzione

Ubuntu2 Spenta

win7 In esecuzione

metasploitable In esecuzione

**Generale**

Nome: win7  
Sistema operativo: Windows 7 (64-bit)

**Sistema**

Memoria di base: 4096 MB  
Processori: 2  
Ordine di avvio: Disco fisso, Ottico, Floppy  
Accelerazione: Paginazione nidificata, Paravirtualizzazione Hyper-V

**Schermo**

Memoria video: 27 MB  
Scheda grafica: VBoxSVGA  
Server di desktop remoto: Disabilitato  
Registrazione: Disabilitata

**Archiviazione**

Controller: SATA  
Porta SATA 0: win7.vdi (Normale, 32,00 GB)  
Porta SATA 1: [Lettore ottico] win7\_64\_bit.iso (3,09 GB)  
Controller: Floppy  
Dispositivo floppy 0: Unattended-dac9f4b5-f393-4b0e-b672-ad7a087efa4a-aux-floppy.img (1,41 MB)

**Audio**

Driver host: Predefinita  
Controller: Intel HD Audio

**Rete**

Scheda 1: Intel PRO/1000 MT Desktop (NAT)

**USB**

Controller USB: OHCI, EHCI  
Filtri dispositivi: 0 (0 attivo)

**Cartelle condivise**

Nessuna

**Descrizione**

Nessuna

**Anteprima**

C:\Windows\system32\cmd.exe

Microsoft Windows [Version 6.1.7601]  
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\winboxuser>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

Connection-specific DNS Suffix . :  
Link-local IPv6 Address . . . . . : fe80::e440:7dd2:595b:c2f%11  
IPv4 Address. . . . . : 192.168.50.102  
Subnet Mask . . . . . : 255.255.255.0  
Default Gateway . . . . . : 192.168.50.1

Tunnel adapter isatap.{5A70ACFE-DB22-46D7-80FD-72B04FDD4AD1}:

Media State . . . . . : Media disconnected  
Connection-specific DNS Suffix . :  
C:\Users\winboxuser>

# configurazione VM metasploite

The image displays the Oracle VM VirtualBox Gestore interface and a terminal window for a metasploitable VM.

**VirtualBox Gestore - VM List:**

- kali-linux-2023.3-virtualbox-amd64**: In esecuzione
- Ubuntu2**: Spenta
- win7**: In esecuzione
- metasploitable**: In esecuzione

**Configuration Details for metasploitable:**

- Generale**: Nome: metasploitable, Sistema operativo: Other Linux (64-bit)
- Sistema**: Memoria di base: 4096 MB, Processori: 2, Ordine di avvio: Floppy, Ottico, Disco fisso, Accelerazione: Paginazione nidificata, PAE/NX, Paravirtualizzazione KVM
- Schermo**: Memoria video: 16 MB, Scheda grafica: VMSVGA, Server di desktop remoto: Disabilitato, Registrazione: Disabilitata
- Archiviazione**: Controller: IDE, Dispositivo IDE secondario 0: [Lettore ottico] Vuoto, Controller: SATA, Porta SATA 0: Metasploitable.vmdk (Normale, 8,00 GB)
- Audio**: Driver host: Predefinita, Controller: ICH AC97
- Rete**: Scheda 1: Intel PRO/1000 MT Desktop (Rete interna, 'intnet')
- USB**: Controller USB: OHCI, EHCI, Filtri dispositivi: 0 (0 attivo)
- Cartelle condivise**: Nessuna
- Descrizione**: Nessuna

**Terminal Window (metasploitable [In esecuzione] - Oracle VM VirtualBox):**

```
File  Macchina  Visualizza  Inserimento  Dispositivi  Aiuto

--- 192.168.50.100 ping statistics ---
19 packets transmitted, 19 received, 0% packet loss, time 18081ms
rtt min/avg/max/mdev = 0.176/0.301/0.933/0.212 ms
msfadmin@metasploitable:~$ ifconfig
eth0      Link encap:Ethernet  HWaddr 08:00:27:80:c2:66
          inet addr:192.168.50.101  Bcast:192.168.50.155  Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fe80:c266/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:41 errors:0 dropped:0 overruns:0 frame:0
          TX packets:118 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:3726 (3.6 KB)  TX bytes:12179 (11.8 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:180 errors:0 dropped:0 overruns:0 frame:0
          TX packets:180 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:56077 (54.7 KB)  TX bytes:56077 (54.7 KB)

msfadmin@metasploitable:~$
msfadmin@metasploitable:~$ _
```



# configurazione VM Kali

Oracle VM VirtualBox Gestore

File Macchina Aiuto

Strumenti

**kali-linux-2023.3-virtualbox-amd64**  
In esecuzione

**Ubuntu2**  
Spenta

**win7**  
In esecuzione

**metasploitable**  
In esecuzione

**Generale**  
Nome: kali-linux-2023.3-virtualbox-amd64  
Sistema operativo: Debian (64-bit)

**Sistema**  
Memoria di base: 4048 MB  
Processori: 2  
Ordine di avvio: Disco fisso, Ottico  
Accelerazione: Paginazione nidificata, PAE/NX, Paravirtualizzazione KVM

**Schermo**  
Memoria video: 128 MB  
Scheda grafica: VMSVGA  
Server di desktop remoto: Disabilitato  
Registrazione: Disabilitata

**Archiviazione**  
Controller: IDE  
Dispositivo IDE secondario 0: [Lettore ottico] Vuoto  
Controller: SATA  
Porta SATA 0: kali-linux-2023.3-virtualbox-amd64.vdi (Normale, 80,09 GB)

**Audio**  
Driver host: Windows DirectSound  
Controller: ICH AC97

**Rete**  
Scheda 1: Intel PRO/1000 MT Desktop (Rete interna, 'intnet')

**USB**  
Controller USB: OHCI  
Filtri dispositivi: 0 (0 attivo)

**Cartelle condivise**  
Nessuna

**Descrizione**  
Kali Rolling (2023.3) x64  
2023-08-21  
-----  
Username: kali  
Password: kali  
(US keyboard layout)  
-----  
\* Kali Homepage:  
<https://www.kali.org/>  
\* Kali Documentation:  
<https://www.kali.org/docs/>  
\* Kali Tools:  
<https://www.kali.org/tools/>  
\* Forum/Community Support:  
<https://forums.kali.org/>  
\* Community Chat:  
<https://discord.kali.org>

**Anteprima**

```
kali@kali: ~  
File Actions Edit View Help  
^C  
— 192.168.50.101 ping statistics —  
12 packets transmitted, 12 received, 0% packet loss, time 11262ms  
rtt min/avg/max/mdev = 0.203/0.923/8.472/2.276 ms  
  
(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:feeb:7ef5 prefixlen 64 scopeid 0x20<link>  
    ether 08:00:27:cb:7e:f5 txqueuelen 1000 (Ethernet)  
    RX packets 228 bytes 27842 (27.1 KiB)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 339 bytes 32074 (31.3 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 25 bytes 2592 (2.5 KiB)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 25 bytes 2592 (2.5 KiB)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
(kali@kali)-[~]
```

# Presenza virtuale

ping da windows7 vs kali e meta

```
C:\Windows\system32\cmd.exe
C:\Users\winboxuser>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 = 0ms, Average = 0ms

C:\Users\winboxuser>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
```

ping da metasploite vs kali e win7

```
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=6.60 ms
64 bytes from 192.168.50.100: icmp_seq=2 ttl=64 time=0.306 ms
64 bytes from 192.168.50.100: icmp_seq=3 ttl=64 time=0.579 ms
64 bytes from 192.168.50.100: icmp_seq=4 ttl=64 time=0.177 ms
64 bytes from 192.168.50.100: icmp_seq=5 ttl=64 time=0.186 ms
^X64 bytes from 192.168.50.100: icmp_seq=6 ttl=64 time=0.353 ms

--- 192.168.50.100 ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5009ms
rtt min/avg/max/mdev = 0.177/1.368/6.608/2.347 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=1.26 ms
64 bytes from 192.168.50.102: icmp_seq=2 ttl=128 time=0.219 ms
64 bytes from 192.168.50.102: icmp_seq=3 ttl=128 time=0.206 ms
64 bytes from 192.168.50.102: icmp_seq=4 ttl=128 time=0.206 ms
64 bytes from 192.168.50.102: icmp_seq=5 ttl=128 time=0.217 ms
64 bytes from 192.168.50.102: icmp_seq=6 ttl=128 time=0.218 ms

--- 192.168.50.102 ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5003ms
rtt min/avg/max/mdev = 0.206/0.388/1.262/0.390 ms
msfadmin@metasploitable:~$ _
```

ping da kali vs meta e win7

```
kali@kali: ~
File Actions Edit View Help
└─$ 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=3.90 ms
64 bytes from 192.168.50.101: icmp_seq=2 ttl=64 time=0.203 ms
64 bytes from 192.168.50.101: icmp_seq=3 ttl=64 time=0.258 ms
^X64 bytes from 192.168.50.101: icmp_seq=4 ttl=64 time=0.323 ms
^C
--- 192.168.50.101 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3310ms
rtt min/avg/max/mdev = 0.203/1.171/3.903/1.577 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=0.371 ms
64 bytes from 192.168.50.102: icmp_seq=2 ttl=128 time=0.288 ms
64 bytes from 192.168.50.102: icmp_seq=3 ttl=128 time=0.275 ms
64 bytes from 192.168.50.102: icmp_seq=4 ttl=128 time=0.185 ms
64 bytes from 192.168.50.102: icmp_seq=5 ttl=128 time=0.235 ms
64 bytes from 192.168.50.102: icmp_seq=6 ttl=128 time=0.211 ms
^C
--- 192.168.50.102 ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5155ms
rtt min/avg/max/mdev = 0.185/0.260/0.371/0.060 ms
```