

Report Esercizio S1/L1

The screenshot displays the Oracle VM VirtualBox Manager interface. On the left, three virtual machines are listed: Kali-Linux (Spenta), Metasploitable 2 (Spenta), and Windows 7 (Spenta). The main area shows the details of the selected VM, Kali-Linux, including its system, screen, archiving, audio, network, USB, shared folders, and description. The network adapter is set to Intel PRO/1000 MT Desktop (Rete interna, 'intnet').

Below the main window, three terminal windows are open, each showing the output of network configuration and ping tests:

- Kali-Linux [in esecuzione] - Oracle VM VirtualBox**

```
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:fe21:b1d0 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:21:b1:d0 txqueuelen 1000 (Ethernet)
    RX packets 122 bytes 9634 (9.3 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 510 bytes 48356 (47.2 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 48 bytes 5168 (5.0 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 48 bytes 5168 (5.0 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```
- Windows 7 [in esecuzione] - Oracle VM VirtualBox**

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
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C:\Users\Francesco>ipconfig

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix . . . : fe80::h901:24f0:542a:
    Link-local IPv6 Address . . . . . : fe80::h901:24f0:542a:
    IPv4 Address. . . . . : 192.168.50.102
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.50.1

Tunnel adapter isatap.{6FDF6E68-C9E1-481B-B16F-BB7DC74D9541}:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix . . :

C:\Users\Francesco>
```
- Metasploitable 2 [in esecuzione] - Oracle VM VirtualBox**

```
msfadmin@metasploitable:~$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.50.101 netmask 255.255.255.0 broadcast 192.168.50.255
    inet6 addr: fe80::a00:27ff:fe21:b1d0 prefixlen 64 scopeid 0x20<link>
    UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
    RX packets:28 errors:0 dropped:0 overruns:0 frame:0
    TX packets:291 errors:0 dropped:0 overruns:0 carrier:0
    collisions:0 txqueuelen:1000
    RX bytes:2418 (2.3 KB) TX bytes:25332 (24.7 KB)
    Base address:0xd620 Memory:f0200000-f0220000

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet addr: 127.0.0.1 mask:255.0.0.0
    inet6 addr: ::1/128 Scope:Host
    UP LOOPBACK RUNNING MTU:65536 Metric:1
    RX packets:147 errors:0 dropped:0 overruns:0 frame:0
    TX packets:147 errors:0 dropped:0 overruns:0 carrier:0
    collisions:0 txqueuelen:0
    RX bytes:33013 (32.2 KB) TX bytes:33013 (32.2 KB)

msfadmin@metasploitable:~$
```

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Come si può notare dalla [prima immagine](#), abbiamo realizzato l'installazione e la configurazione di 3 macchine virtuali dedicate a una rete interna. Una volta effettuata l'installazione, siamo passati alla configurazione degli indirizzi ip in 2 diversi modi. Su Kali-Linux e Metasploitable si utilizza il comando "sudo nano /etc/network/interfaces", mentre su Windows 7 si utilizza il Pannello di controllo per accedere alle impostazioni di rete. Una volta effettuata la modifica e aver reso gli indirizzi ip statici, abbiamo riavviato le macchine virtuali e con gli appositi comandi (ipconfig per windows e ifconfig per Kali e Metasploitable) abbiamo verificato il funzionamento della rete interna utilizzando il comando ping.