



INSTITUT PROVENÇANA

Pràctica

Connectivitat de sistemes operatius amb màquines virtuals

MÒDUL 1:

SISTEMES INFORMÀTICS

UNITAT FORMATIVA 1:

INSTAL·LACIÓ, CONFIGURACIÓ

I EXPLOTACIÓ DEL SISTEMA INFORMÀTIC

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Curs 2022/2023



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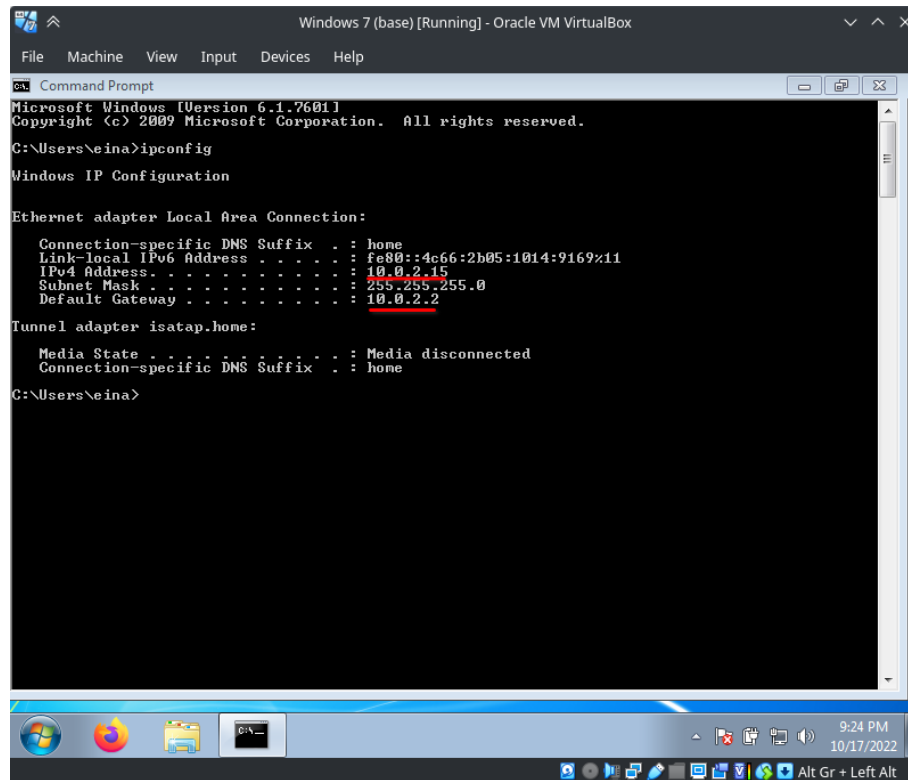
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1 NAT

En aquest mode, VirtualBox crea un router virtual entre la màquina i l'amfitrió. Això permet la connexió de les màquines virtuals amb l'amfitrió i internet, però no entre màquines virtuals, ja que cada una té el seu router.

Ambdues màquines tenen la mateixa IP 10.0.2.15 i el gateway per comunicar-se amb l'exterior és 10.0.2.2.

```
Ubuntu 22.04 (base) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal oct 17 21:23
eina@ubuntu: ~
eina@ubuntu:~$ ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default 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
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:27:26:f4 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
        valid_lft 86098sec preferred_lft 86098sec
    inet6 fe80::8632:662b:eadf:f594/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
eina@ubuntu:~$ ip route
default via 10.0.2.2 dev enp0s3 proto dhcp metric 100
10.0.2.0/24 dev enp0s3 proto kernel scope link src 10.0.2.15 metric 100
169.254.0.0/16 dev enp0s3 scope link metric 1000
eina@ubuntu:~$
```



```

Windows 7 (base) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

C:\Users\eina>ipconfig

Windows IP Configuration

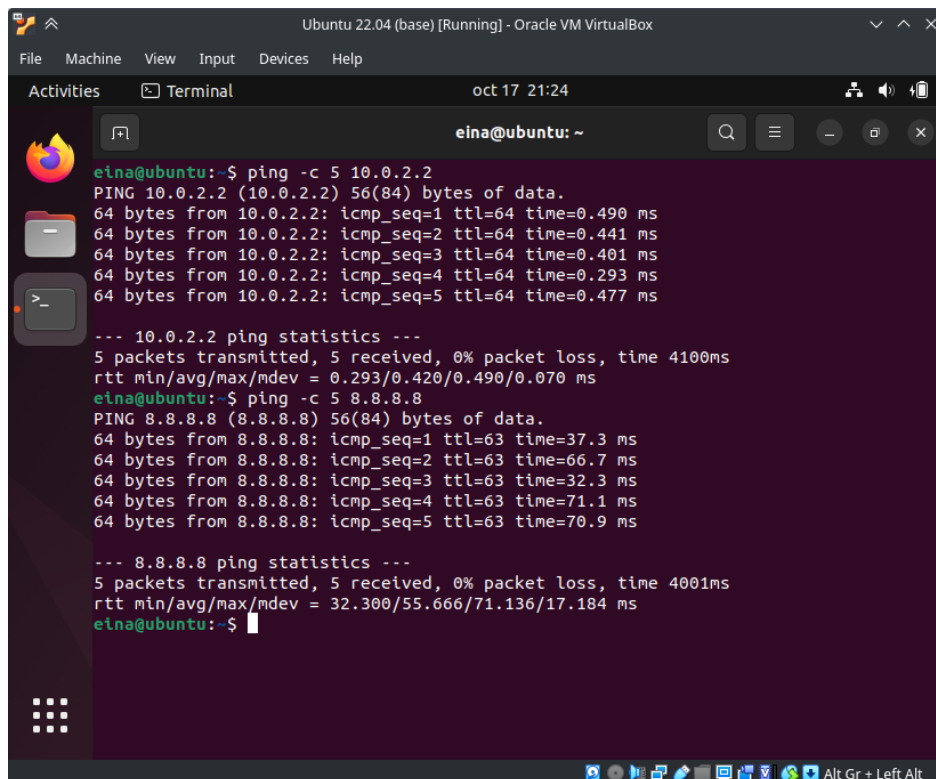
Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : home
    Link-local IPv6 Address . . . . . : fe80::4c66:2b05:1014:9169%11
    IPv4 Address. . . . . : 10.0.2.15
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 10.0.2.2

Tunnel adapter isatap.home:

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

C:\Users\eina>
  
```



```

Ubuntu 22.04 (base) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Activities Terminal oct 17 21:24

eina@ubuntu: ~

eina@ubuntu:~$ ping -c 5 10.0.2.2
PING 10.0.2.2 (10.0.2.2) 56(84) bytes of data:
64 bytes from 10.0.2.2: icmp_seq=1 ttl=64 time=0.490 ms
64 bytes from 10.0.2.2: icmp_seq=2 ttl=64 time=0.441 ms
64 bytes from 10.0.2.2: icmp_seq=3 ttl=64 time=0.401 ms
64 bytes from 10.0.2.2: icmp_seq=4 ttl=64 time=0.293 ms
64 bytes from 10.0.2.2: icmp_seq=5 ttl=64 time=0.477 ms

--- 10.0.2.2 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4100ms
rtt min/avg/max/mdev = 0.293/0.420/0.490/0.070 ms
eina@ubuntu:~$ ping -c 5 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data:
64 bytes from 8.8.8.8: icmp_seq=1 ttl=63 time=37.3 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=63 time=66.7 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=63 time=32.3 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=63 time=71.1 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=63 time=70.9 ms

--- 8.8.8.8 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4001ms
rtt min/avg/max/mdev = 32.300/55.666/71.136/17.184 ms
eina@ubuntu:~$
  
```

```
Windows 7 (base) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

C:\Users\eina>ping 10.0.2.2

Pinging 10.0.2.2 with 32 bytes of data:
Reply from 10.0.2.2: bytes=32 time=4ms TTL=128
Reply from 10.0.2.2: bytes=32 time<1ms TTL=128
Reply from 10.0.2.2: bytes=32 time<1ms TTL=128
Reply from 10.0.2.2: bytes=32 time<1ms TTL=128

Ping statistics for 10.0.2.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 4ms, Average = 1ms

C:\Users\eina>ping 8.8.8.8

Pinging 8.8.8.8 with 32 bytes of data:
Reply from 8.8.8.8: bytes=32 time=52ms TTL=127
Reply from 8.8.8.8: bytes=32 time=18ms TTL=127
Reply from 8.8.8.8: bytes=32 time=40ms TTL=127
Reply from 8.8.8.8: bytes=32 time=32ms TTL=127

Ping statistics for 8.8.8.8:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 18ms, Maximum = 52ms, Average = 35ms

C:\Users\eina>
```

2 XARXA NAT

La xarxa NAT crea una xarxa on les diverses màquines virtuals que en formin part es poden veure les unes a les altres. A més també crea un router virtual que permet la connexió a internet.

La màquina d'Ubuntu té la IP 10.0.2.4 i la de Windows la 10.0.2.15. El gateway que permet comunicar-se amb l'amfitrió i internet té l'adreça 10.0.2.1.

```
Ubuntu 22.04 (base) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal oct 17 21:31
eina@ubuntu: ~
eina@ubuntu:~$ ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default 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
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:27:26:f4 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.4/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
        valid_lft 570sec preferred_lft 570sec
    inet6 fe80::8632:662b:eadf:f594/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
eina@ubuntu:~$ ip route
default via 10.0.2.1 dev enp0s3 proto dhcp metric 100
10.0.2.0/24 dev enp0s3 proto kernel scope link src 10.0.2.4 metric 100
169.254.0.0/16 dev enp0s3 scope link metric 1000
eina@ubuntu:~$
```

```

Windows 7 (base) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

C:\Users\eina>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : home
    Link-local IPv6 Address . . . . . : fe80::4c66:2b05:1014:9169%11
    IPv4 Address. . . . . : 10.0.2.15
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 10.0.2.1

Tunnel adapter isatap.home:

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

C:\Users\eina>
  
```

```

Ubuntu 22.04 (base) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Activities Terminal oct 17 21:32

eina@ubuntu: ~

eina@ubuntu:~$ ping -c 5 10.0.2.15
PING 10.0.2.15 (10.0.2.15) 56(84) bytes of data:
64 bytes from 10.0.2.15: icmp_seq=1 ttl=128 time=1.93 ms
64 bytes from 10.0.2.15: icmp_seq=2 ttl=128 time=0.942 ms
64 bytes from 10.0.2.15: icmp_seq=3 ttl=128 time=0.995 ms
64 bytes from 10.0.2.15: icmp_seq=4 ttl=128 time=0.862 ms
64 bytes from 10.0.2.15: icmp_seq=5 ttl=128 time=0.898 ms

--- 10.0.2.15 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4022ms
rtt min/avg/max/mdev = 0.862/1.125/1.930/0.404 ms
eina@ubuntu:~$ ping -c 5 10.0.2.1
PING 10.0.2.1 (10.0.2.1) 56(84) bytes of data:
64 bytes from 10.0.2.1: icmp_seq=1 ttl=255 time=0.437 ms
64 bytes from 10.0.2.1: icmp_seq=2 ttl=255 time=0.453 ms
64 bytes from 10.0.2.1: icmp_seq=3 ttl=255 time=0.615 ms
64 bytes from 10.0.2.1: icmp_seq=4 ttl=255 time=0.391 ms
64 bytes from 10.0.2.1: icmp_seq=5 ttl=255 time=0.501 ms

--- 10.0.2.1 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4076ms
rtt min/avg/max/mdev = 0.391/0.479/0.615/0.076 ms
eina@ubuntu:~$
  
```

```

Ubuntu 22.04 (base) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal oct 17 21:34
eina@ubuntu: ~
eina@ubuntu:~$ ping -c 5 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=117 time=21.9 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=117 time=56.3 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=117 time=54.6 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=117 time=44.8 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=117 time=31.8 ms

--- 8.8.8.8 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4014ms
rtt min/avg/max/mdev = 21.889/41.872/56.275/13.260 ms
eina@ubuntu:~$

```

```

Windows 7 (base) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Command Prompt
C:\Users\eina>ping 10.0.2.4
Pinging 10.0.2.4 with 32 bytes of data:
Reply from 10.0.2.4: bytes=32 time<1ms TTL=64
Reply from 10.0.2.4: bytes=32 time<1ms TTL=64
Reply from 10.0.2.4: bytes=32 time<1ms TTL=64
Reply from 10.0.2.4: bytes=32 time<1ms TTL=64

Ping statistics for 10.0.2.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\Users\eina>ping 10.0.2.1
Pinging 10.0.2.1 with 32 bytes of data:
Reply from 10.0.2.1: bytes=32 time=3ms TTL=255
Reply from 10.0.2.1: bytes=32 time<1ms TTL=255
Reply from 10.0.2.1: bytes=32 time<1ms TTL=255
Reply from 10.0.2.1: bytes=32 time<1ms TTL=255

Ping statistics for 10.0.2.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 3ms, Average = 0ms

C:\Users\eina>ping 8.8.8.8
Pinging 8.8.8.8 with 32 bytes of data:
Reply from 8.8.8.8: bytes=32 time=65ms TTL=117
Reply from 8.8.8.8: bytes=32 time=99ms TTL=117
Reply from 8.8.8.8: bytes=32 time=35ms TTL=117
Reply from 8.8.8.8: bytes=32 time=70ms TTL=117

Ping statistics for 8.8.8.8:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 35ms, Maximum = 99ms, Average = 67ms

C:\Users\eina>

```


3 ADAPTADOR PONT

Aquest mode crea un adaptador virtual de xarxa, que mostra les màquines virtuals com un dispositiu més en la xarxa on estigui connectat l'amfitrió.

Windows té l'adreça 192.168.1.142 i l'Ubuntu té la 192.168.1.143. La màquina amfitriona té l'adreça 192.168.1.156.

El gateway és el router de la xarxa local, com passaria amb qualsevol dispositiu que s'hi connectés, amb IP 192.168.1.1.

```

eina@ubuntu:~$ ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default 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
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:27:26:f4 brd ff:ff:ff:ff:ff:ff
    inet 192.168.1.143/24 brd 192.168.1.255 scope global dynamic noprefixroute enp0s3
        valid_lft 86375sec preferred_lft 86375sec
    inet6 fe80::8632:662b:eadf:f594/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
eina@ubuntu:~$ ip route
default via 192.168.1.1 dev enp0s3 proto dhcp metric 100
169.254.0.0/16 dev enp0s3 scope link metric 1000
192.168.1.0/24 dev enp0s3 proto kernel scope link src 192.168.1.143 metric 100
eina@ubuntu:~$
  
```

```

Windows 7 (base) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

C:\Users\eina>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : home
    Link-local IPv6 Address . . . . . : fe80::4c66:2b05:1014:9169%11
    IPv4 Address. . . . . : 192.168.1.142
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.1.1

Tunnel adapter isatap.home:

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

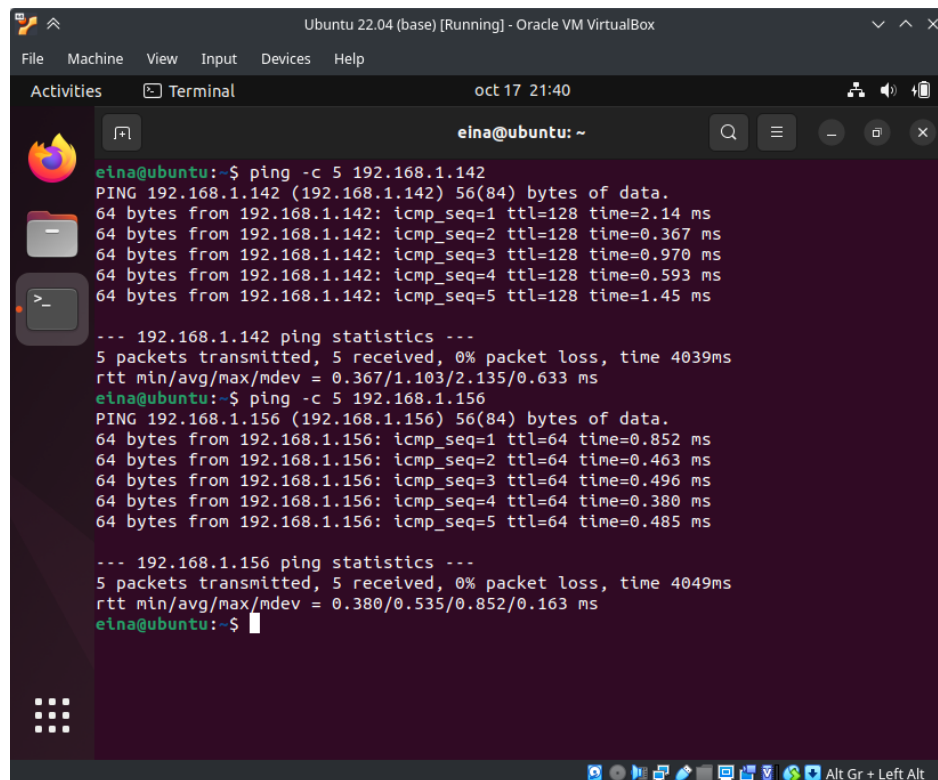
C:\Users\eina>
  
```

```

~: zsh — Konsole
File Edit View Bookmarks Plugins Settings Help

New Tab Split View Copy Paste Find

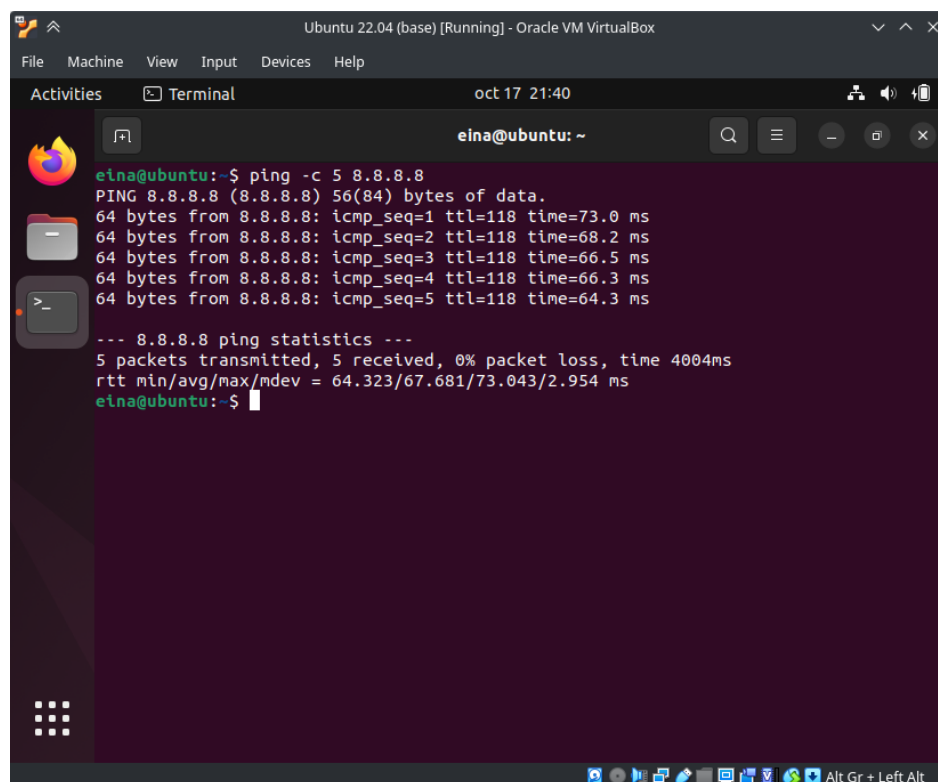
~ ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
   link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
   inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
   inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: eno1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
   link/ether f8:b4:6a:a3:67:3f brd ff:ff:ff:ff:ff:ff
   altname enp3s0
   inet 192.168.1.156/24 brd 192.168.1.255 scope global dynamic noprefixroute eno1
       valid_lft 59875sec preferred_lft 59875sec
   inet6 fe80::ac38:fd82:f1ad:cf29/64 scope link noprefixroute
       valid_lft forever preferred_lft forever
   inet6 fe80::f31e:b0dd:63c6:9e28/64 scope link
       valid_lft forever preferred_lft forever
3: wlo1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default qlen 1000
   link/ether c0:b5:d7:e1:9d:01 brd ff:ff:ff:ff:ff:ff
   altname wlp4s0
   inet 192.168.110.1/24 brd 192.168.110.255 scope global wlo1
       valid_lft forever preferred_lft forever
4: vboxnet0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc fq_codel state DOWN group default qlen 1
   link/ether 0a:00:27:00:00:00 brd ff:ff:ff:ff:ff:ff
  
```



```
Ubuntu 22.04 (base) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal oct 17 21:40
eina@ubuntu: ~
eina@ubuntu:~$ ping -c 5 192.168.1.142
PING 192.168.1.142 (192.168.1.142) 56(84) bytes of data.
64 bytes from 192.168.1.142: icmp_seq=1 ttl=128 time=2.14 ms
64 bytes from 192.168.1.142: icmp_seq=2 ttl=128 time=0.367 ms
64 bytes from 192.168.1.142: icmp_seq=3 ttl=128 time=0.970 ms
64 bytes from 192.168.1.142: icmp_seq=4 ttl=128 time=0.593 ms
64 bytes from 192.168.1.142: icmp_seq=5 ttl=128 time=1.45 ms

--- 192.168.1.142 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4039ms
rtt min/avg/max/mdev = 0.367/1.103/2.135/0.633 ms
eina@ubuntu:~$ ping -c 5 192.168.1.156
PING 192.168.1.156 (192.168.1.156) 56(84) bytes of data.
64 bytes from 192.168.1.156: icmp_seq=1 ttl=64 time=0.852 ms
64 bytes from 192.168.1.156: icmp_seq=2 ttl=64 time=0.463 ms
64 bytes from 192.168.1.156: icmp_seq=3 ttl=64 time=0.496 ms
64 bytes from 192.168.1.156: icmp_seq=4 ttl=64 time=0.380 ms
64 bytes from 192.168.1.156: icmp_seq=5 ttl=64 time=0.485 ms

--- 192.168.1.156 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4049ms
rtt min/avg/max/mdev = 0.380/0.535/0.852/0.163 ms
eina@ubuntu:~$
```



```
Ubuntu 22.04 (base) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal oct 17 21:40
eina@ubuntu: ~
eina@ubuntu:~$ ping -c 5 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=118 time=73.0 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=118 time=68.2 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=118 time=66.5 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=118 time=66.3 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=118 time=64.3 ms

--- 8.8.8.8 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4004ms
rtt min/avg/max/mdev = 64.323/67.681/73.043/2.954 ms
eina@ubuntu:~$
```

```

Windows 7 (base) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

C:\Users\eina>ping 192.168.1.143

Pinging 192.168.1.143 with 32 bytes of data:
Reply from 192.168.1.143: bytes=32 time<1ms TTL=64
Reply from 192.168.1.143: bytes=32 time<1ms TTL=64
Reply from 192.168.1.143: bytes=32 time<1ms TTL=64
Reply from 192.168.1.143: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.1.143:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\Users\eina>ping 192.168.1.156

Pinging 192.168.1.156 with 32 bytes of data:
Reply from 192.168.1.156: bytes=32 time<1ms TTL=64
Reply from 192.168.1.156: bytes=32 time<1ms TTL=64
Reply from 192.168.1.156: bytes=32 time<1ms TTL=64
Reply from 192.168.1.156: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.1.156:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\Users\eina>ping 8.8.8.8

Pinging 8.8.8.8 with 32 bytes of data:
Reply from 8.8.8.8: bytes=32 time=102ms TTL=118
Reply from 8.8.8.8: bytes=32 time=65ms TTL=118
Reply from 8.8.8.8: bytes=32 time=61ms TTL=118
Reply from 8.8.8.8: bytes=32 time=46ms TTL=118

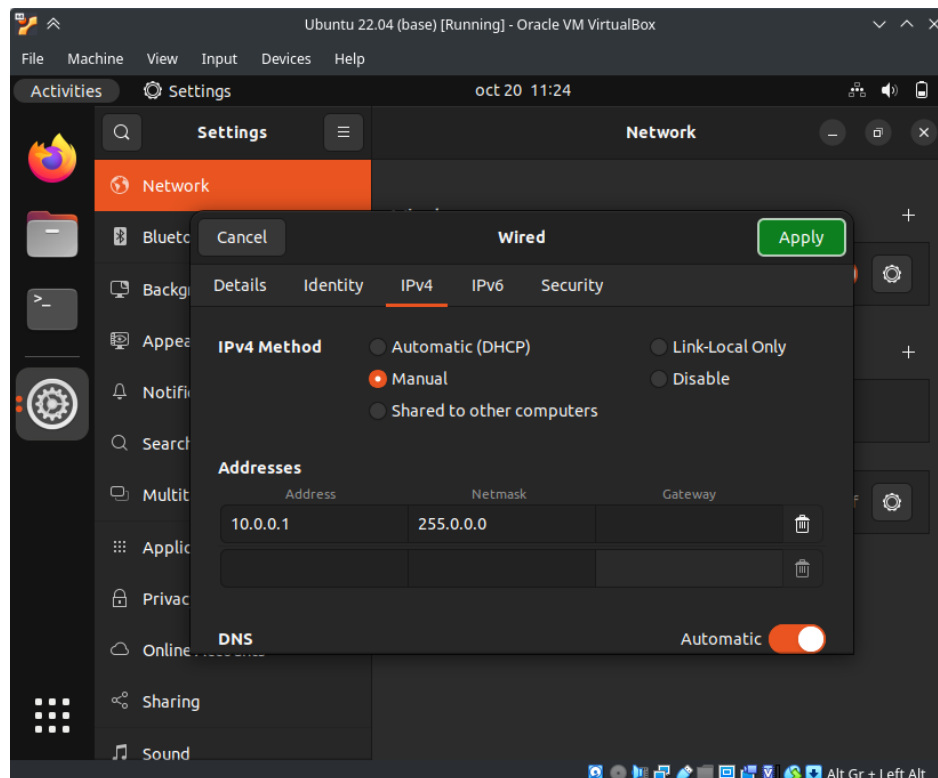
Ping statistics for 8.8.8.8:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 46ms, Maximum = 102ms, Average = 68ms

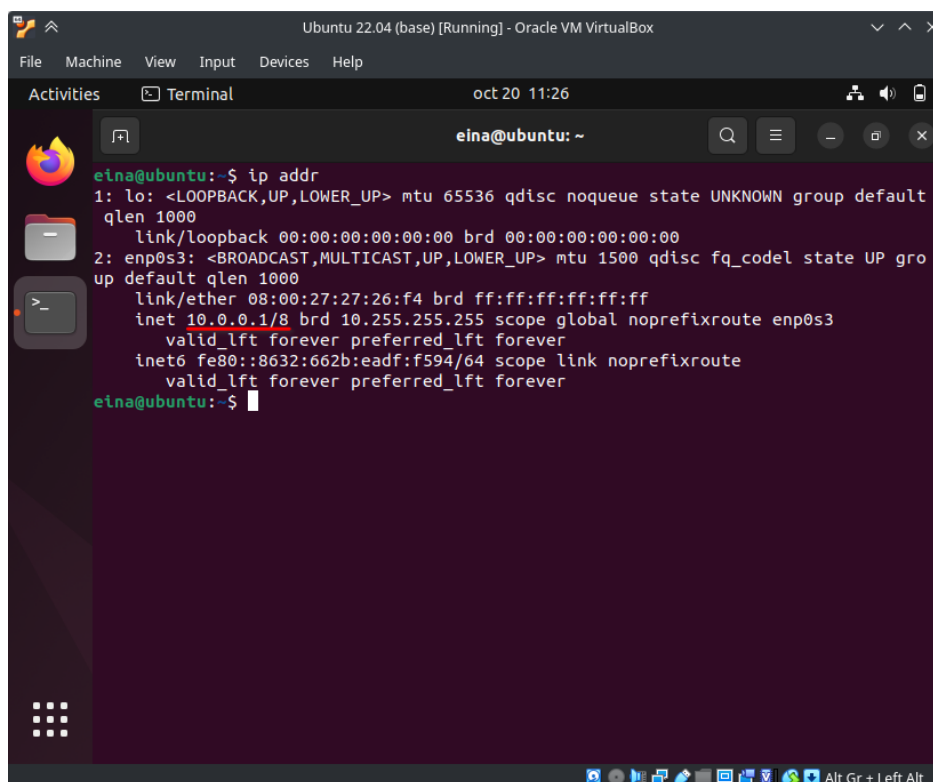
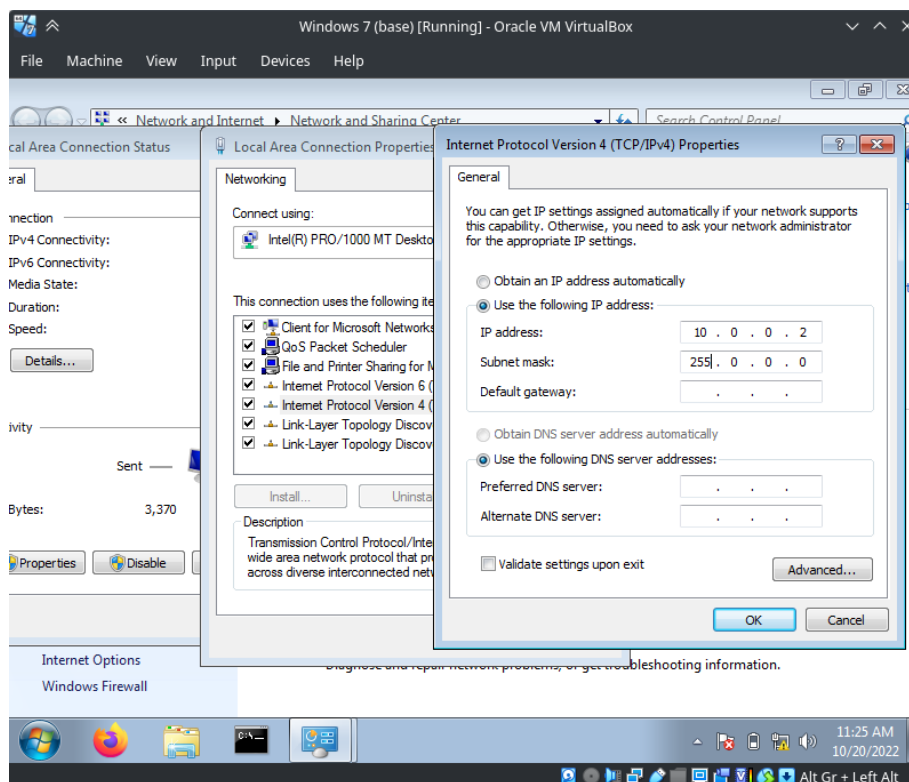
C:\Users\eina>_
  
```

4 XARXA INTERNA

La Xarxa Interna connecta entre si les màquines que en formen part, sense cap mena de connexió amb el món exterior. No crea cap router ni servidor DHCP, així que hem d'assignar manualment les adreces IP.

A Ubuntu li assignarem la IP 10.0.0.1 i a Windows la 10.0.0.2.





```

Windows 7 (base) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

C:\Users\eina>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::4c66:2b05:1014:9169%11
    IPv4 Address. . . . . : 10.0.0.2
    Subnet Mask . . . . . : 255.0.0.0
    Default Gateway . . . . . : 

Tunnel adapter isatap.{3725A1FB-7CD5-4965-AB88-4899A431A9E3}:

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

C:\Users\eina>_
  
```

```

Ubuntu 22.04 (base) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Activities Terminal oct 21 18:23

eina@ubuntu: ~
eina@ubuntu:~$ ping -c 5 10.0.0.2
PING 10.0.0.2 (10.0.0.2) 56(84) bytes of data:
64 bytes from 10.0.0.2: icmp_seq=1 ttl=128 time=0.813 ms
64 bytes from 10.0.0.2: icmp_seq=2 ttl=128 time=0.999 ms
64 bytes from 10.0.0.2: icmp_seq=3 ttl=128 time=0.998 ms
64 bytes from 10.0.0.2: icmp_seq=4 ttl=128 time=0.819 ms
64 bytes from 10.0.0.2: icmp_seq=5 ttl=128 time=1.03 ms

--- 10.0.0.2 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4039ms
rtt min/avg/max/mdev = 0.813/0.931/1.027/0.094 ms
eina@ubuntu:~$ ping -c 5 8.8.8.8
ping: connect: Network is unreachable
eina@ubuntu:~$
  
```

```

Windows 7 (base) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

C:\Users\eina>ping 10.0.0.1

Pinging 10.0.0.1 with 32 bytes of data:
Reply from 10.0.0.1: bytes=32 time<1ms TTL=64
Reply from 10.0.0.1: bytes=32 time<1ms TTL=64
Reply from 10.0.0.1: bytes=32 time<1ms TTL=64
Reply from 10.0.0.1: bytes=32 time<1ms TTL=64

Ping statistics for 10.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\eina>ping 8.8.8.8

Pinging 8.8.8.8 with 32 bytes of data:
PING: transmit failed. General failure.
PING: transmit failed. General failure.
PING: transmit failed. General failure.
PING: transmit failed. General failure.

Ping statistics for 8.8.8.8:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\Users\eina>
  
```

5 CARPETA COMPARTIDA

Creem una carpeta a l'amfitrió i la compartim amb totes dues màquines virtuals. A Ubuntu ens apareixerà com una partició més i a Windows com una unitat de xarxa.

