

Activities Terminal Nov 28 15:07

joserojas@joserojas-VirtualBox: ~

```
joserojas@joserojas-VirtualBox:~$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::eee1:e4c0:7e7f:2877 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:ed:d9:ed txqueuelen 1000 (Ethernet)
    RX packets 187906 bytes 278435084 (278.4 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 27599 bytes 1904401 (1.9 MB)
    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 1026 bytes 111142 (111.1 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 1026 bytes 111142 (111.1 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

joserojas@joserojas-VirtualBox:~$
```

ActivitiesTerminalNov 28 15:09

joserojas@joserojas-VirtualBox: ~

```
joserojas@joserojas-VirtualBox:~$ route
Kernel IP routing table
Destination      Gateway         Genmask         Flags Metric Ref    Use Iface
default          _gateway       0.0.0.0         UG    100    0      0 enp0s3
10.0.2.0         0.0.0.0        255.255.255.0   U     100    0      0 enp0s3
link-local       0.0.0.0        255.255.0.0     U     1000   0      0 enp0s3

joserojas@joserojas-VirtualBox:~$ netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
tcp        0      0 joserojas-Virtual:36310 snapstore-content:https ESTABLISHED
udp        0      0 joserojas-Virtua:bootpc _gateway:bootps         ESTABLISHED

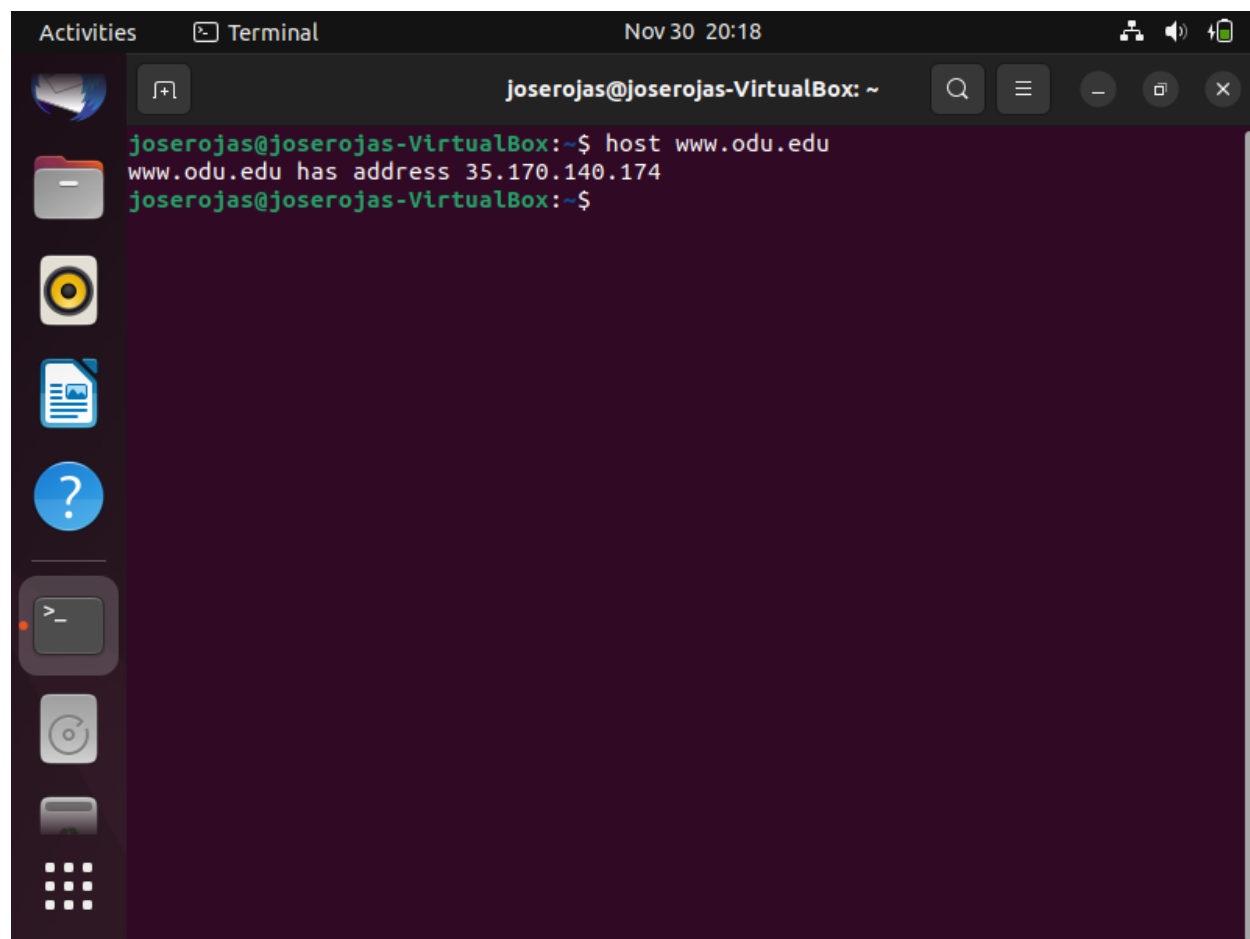
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags   Type       State         I-Node  Path
unix  2      [ ]     DGRAM      State         20075    /run/user/1000/syste
md/notify
unix  3      [ ]     DGRAM      CONNECTED    15695    /run/systemd/notify
unix  2      [ ]     DGRAM      15709        /run/systemd/journal
/syslog
unix  17     [ ]     DGRAM      CONNECTED    15718    /run/systemd/journal
/dev-log
unix  9      [ ]     DGRAM      CONNECTED    15720    /run/systemd/journal
/socket
unix  3      [ ]     STREAM     CONNECTED    21812    @/home/joserojas/.ca
che/ibus/dbus-eo71bI8x
unix  3      [ ]     STREAM     CONNECTED    21719    /run/systemd/journal
/stdout
unix  3      [ ]     STREAM     CONNECTED    21326    /run/systemd/journal
/stdout
```

Activities Terminal Nov 28 15:11 [Icons]

joserojas@joserojas-VirtualBox: ~

```
joserojas@joserojas-VirtualBox:~$ ping -c 10
ping: usage error: Destination address required
joserojas@joserojas-VirtualBox:~$ ping -c 10 ubuntu.com
PING ubuntu.com (185.125.190.21) 56(84) bytes of data.
64 bytes from website-content-cache-2.ps5.canonical.com (185.125.190.21): icmp_
seq=1 ttl=63 time=103 ms
64 bytes from website-content-cache-2.ps5.canonical.com (185.125.190.21): icmp_
seq=2 ttl=63 time=142 ms
64 bytes from website-content-cache-2.ps5.canonical.com (185.125.190.21): icmp_
seq=3 ttl=63 time=181 ms
64 bytes from website-content-cache-2.ps5.canonical.com (185.125.190.21): icmp_
seq=4 ttl=63 time=116 ms
64 bytes from website-content-cache-2.ps5.canonical.com (185.125.190.21): icmp_
seq=5 ttl=63 time=155 ms
64 bytes from website-content-cache-2.ps5.canonical.com (185.125.190.21): icmp_
seq=6 ttl=63 time=200 ms
64 bytes from website-content-cache-2.ps5.canonical.com (185.125.190.21): icmp_
seq=7 ttl=63 time=135 ms
64 bytes from website-content-cache-2.ps5.canonical.com (185.125.190.21): icmp_
seq=8 ttl=63 time=173 ms
64 bytes from website-content-cache-2.ps5.canonical.com (185.125.190.21): icmp_
seq=9 ttl=63 time=108 ms
64 bytes from website-content-cache-2.ps5.canonical.com (185.125.190.21): icmp_
seq=10 ttl=63 time=150 ms

--- ubuntu.com ping statistics ---
10 packets transmitted, 10 received, 0% packet loss, time 9013ms
rtt min/avg/max/mdev = 102.927/146.233/199.890/30.442 ms
joserojas@joserojas-VirtualBox:~$
```



Activities Terminal Nov 30 20:22

joserojas@joserojas-VirtualBox: ~

```
joserojas@joserojas-VirtualBox:~$ cat /etc/hostname
joserojas-VirtualBox
joserojas@joserojas-VirtualBox:~$ cat /etc/resolv.conf
# This is /run/systemd/resolve/stub-resolv.conf managed by man:systemd-resolved
(8).
# Do not edit.
#
# This file might be symlinked as /etc/resolv.conf. If you're looking at
# /etc/resolv.conf and seeing this text, you have followed the symlink.
#
# This is a dynamic resolv.conf file for connecting local clients to the
# internal DNS stub resolver of systemd-resolved. This file lists all
# configured search domains.
#
# Run "resolvectl status" to see details about the uplink DNS servers
# currently in use.
#
# Third party programs should typically not access this file directly, but only
# through the symlink at /etc/resolv.conf. To manage man:resolv.conf(5) in a
# different way, replace this symlink by a static file or a different symlink.
#
# See man:systemd-resolved.service(8) for details about the supported modes of
# operation for /etc/resolv.conf.

nameserver 127.0.0.53
options edns0 trust-ad
search wlan.odu.edu
joserojas@joserojas-VirtualBox:~$
```

Activities Terminal Nov 30 20:23

joserojas@joserojas-VirtualBox: ~

```
# This is /run/systemd/resolve/stub-resolv.conf managed by man:systemd-resolved
# (8).
# Do not edit.
#
# This file might be symlinked as /etc/resolv.conf. If you're looking at
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# See man:systemd-resolved.service(8) for details about the supported modes of
# operation for /etc/resolv.conf.

nameserver 127.0.0.53
options edns0 trust-ad
search wlan.odu.edu

joserojas@joserojas-VirtualBox:~$ sudo pico /etc/hostname
[sudo] password for joserojas:
joserojas@joserojas-VirtualBox:~$ cat /etc/hostname
jroja003
joserojas@joserojas-VirtualBox:~$
```

Ubuntu Software

Task B in bridge mode

```
Activities  Terminal  Nov 30 20:34

jose Rojas@jroja003: ~

jose Rojas@jroja003:~$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        ether 08:00:27:ed:d9:ed  txqueuelen 1000  (Ethernet)
        RX packets 67  bytes 14297 (14.2 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 102  bytes 16935 (16.9 KB)
        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 1363  bytes 100317 (100.3 KB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 1363  bytes 100317 (100.3 KB)
    TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

jose Rojas@jroja003:~$ route
Kernel IP routing table
Destination        Gateway            Genmask           Flags Metric Ref    Use Iface
jose Rojas@jroja003:~$ netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags   Type       State           I-Node  Path
unix  2      [ ]     DGRAM                    19747    /run/user/1000/syste
md/notify
unix  3      [ ]     DGRAM    CONNECTED        15690    /run/systemd/notify
unix  2      [ ]     DGRAM                    15704    /run/systemd/journal
```

Activities Terminal Nov 30 20:36

joserojas@jroja003: ~

```
joserojas@jroja003:~$ ping -c 10 ubuntu.com
ping: ubuntu.com: Temporary failure in name resolution
joserojas@jroja003:~$ ping -c 10 ubuntu.com
ping: ubuntu.com: Temporary failure in name resolution
joserojas@jroja003:~$ host www.odu.edu
Host www.odu.edu not found: 2(SERVFAIL)
joserojas@jroja003:~$ cat /etc/hostname
jroja003
joserojas@jroja003:~$ cat /etc/resolv.conf
# This is /run/systemd/resolve/stub-resolv.conf managed by man:systemd-resolved
(8).
# Do not edit.
#
# This file might be symlinked as /etc/resolv.conf. If you're looking at
# /etc/resolv.conf and seeing this text, you have followed the symlink.
#
# This is a dynamic resolv.conf file for connecting local clients to the
# internal DNS stub resolver of systemd-resolved. This file lists all
# configured search domains.
#
# Run "resolvectl status" to see details about the uplink DNS servers
# currently in use.
#
# Third party programs should typically not access this file directly, but only
# through the symlink at /etc/resolv.conf. To manage man:resolv.conf(5) in a
# different way, replace this symlink by a static file or a different symlink.
#
# See man:systemd-resolved.service(8) for details about the supported modes of
# operation for /etc/resolv.conf.
```