Systemy Operacyjne Moduł IV Zadanie Domowe Radosław Terelak Gr. 4G

Zadanie 1

Debian:

```
Debian 9 - Stretch Terelak [Uruchomiona] - Oracle VM VirtualBox
   Plik Maszyna Widok Wejście Urządzenia Pomoc
# and how to activate them. For more information, see interfaces(5).
   ource /etc/network/interfaces.d/*
# The loopback network interface
  iface lo inet loopback
   auto enpOs3
   face enpOs3 inet dhcp
    face enpOs3 inet6 auto
                                                                                                      Debian 9 - Stretch Terelak [Uruchomiona] - Oracle VM VirtualBox
   face enpOs8 inet static
address 172.30.10.10/24
                                                                                                     Plik Maszvna Widok Weiście Urzadzenia Pomoc
                                                                                                     valid_lft forever preferred_lft forever
root@debianstretch:~# mcedit /etc/network/interfaces
   face enpOs8:1 inet static
address 192.168.190.10/24
                                                                                                     root@debianstretch:~# systemctl restart networking
                                                                                                     root@debianstretch:~# systemctl restart networking
root@debianstretch:~# ip a
L: lo: <LOOPBACK,UP,LOMER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1
link/loopback 00:00:00:00:00:00 brd 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
LYP valid_lft forever preferred_lft forever
SI enpos3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1
   face enpOs9 inet6 auto
  ₩Radosław Terelak
                                                                                                   000
link/ether 08:00:27:d2:7a:29 brd ff:ff:ff:ff:ff
inet 10.0.2.15/24 brd 10.0.2.255 scope global enp0s3
valid_lft forever preferred_lft forever
inet6 fe80::a00:27ff:fed2:7a29/64 scope link
valid_lft forever preferred_lft forever
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1
                        2Zapisz 3Zazncz 4Zastap
                                                                                                         1ink/ether 08:00:27:90:d6:f8 brd ff:ff:ff:ff:ff:ff
inet 172.16.0.10/24 brd 172.16.0.255 scope global enp0s8
    valid_lft forever preferred_lft forever
inet 172.30.10.10/24 brd 172.30.10.255 scope global enp0s8
    valid_lft forever preferred_lft forever
inet 192.168.190.10/24 brd 192.168.190.255 scope global enp0s8:1
    valid_lft forever preferred_lft forever
inet 192.168.190.10/24 brd 192.168.190.255 scope global enp0s8:1
    valid_lft forever preferred_lft forever
inet6 fe80::a00:27ff:fe90:d6f8/64 scope link
    valid_lft forever preferred_lft forever
enp0s9: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1
                                                                                                      00
link/ether 08:00:27:d0:94:7b brd ff:ff:ff:ff:ff:ff
inet 192.168.56.101/24 brd 192.168.56.255 scope global enp0s9
valid_lft forever preferred_lft forever
inet6 fe80::a00:27ff:fed0:947b/64 scope link
valid_lft forever preferred_lft forever
oot@debianstretch:~# _
```

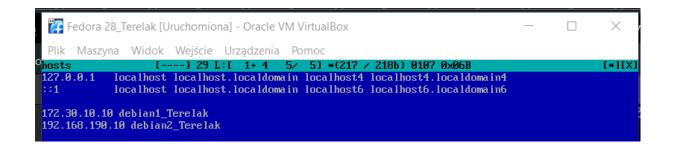
Fedora:

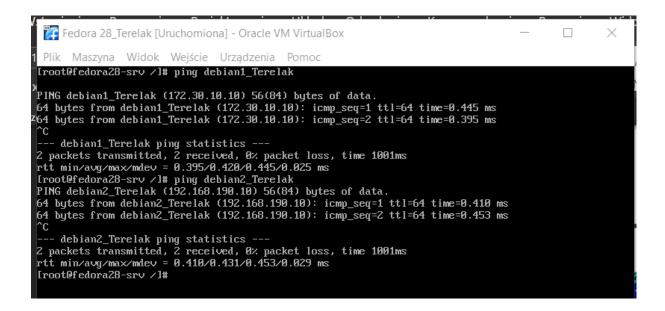
```
🌠 Fedora 28_Terelak [Uruchomiona] - Oracle VM VirtualBox
         Maszyna Widok Wejście Urządzenia Pomoc
[root@fedora28-srv /l# nmcli connection show
NAME
                                        UUID
                                                                                                       TYPE
                                                                                                                       DEVICE
                                        8e2331cd-5965-3590-b3d6-1bd9c1ef9a45
 ołączenie przewodowe 1
                                                                                                      ethernet
                                                                                                                      enp0s9
                                        4eb23d96-4568-3ddb-bc52-f16517277965
576d9f86-0808-3c7a-a149-06d7fd825276
                                                                                                                      enp0s3
                                                                                                      ethernet
 enn0s3
 np0s8
                                                                                                                      enn0s8
                                                                                                      ethernet
Iroot@fedora28-srv /l# nmcli connection modify Połączenie\ przewodowe\ 1 con-name enp@s9
Iroot@fedora28-srv /l# nmcli connection show
                                                                           TYPE
                                                                                           DEVICE
 enp0s3
             4eb23d96-4568-3ddb-bc52-f16517277965
                                                                          ethernet
                                                                                           enp0s3
                                                                                           enp0s8
 np0s8 576d9f86-0808-3c7a-a149-06d7fd825276
                                                                          ethernet
            8e2331cd-5965-3590-b3d6-1bd9c1ef9a45
                                                                          ethernet
[root@fedora28-srv /]# nmcli connection modify enp@s3 ipv4.method
                   disabled link-local manual
                                                                             shared
[root@fedora28-srv /]# nmcli connection modify enp@s3 ipv4.method auto
[root@fedora28-srv /]# nmcli connection modify enp0s3 ipv6.method auto
[root@fedora28-srv /]# nmcli connection modify enp0s9 ipv6.method auto
[root@fedora28-srv /]# nmcli connection modify enp0s9 ipv4.method auto
[root@fedora28-srv /l# nmcli connection modify enp0s8 ipv4.addresses 172.30.10.20/24 192.168.190.20/
Błąd: nieprawidłowe lub niedozwolone ustawienie "192": "192" nie jest w [connection, 802-3-ethernet
(ethernet), 802-1×, dcb, ip∨4, ip∨6, tc, proxy1.
[root@fedora28-srv / ]# nmcli connection modify enp@s8 ipv4.addresses 172.30.10.20/24
Iroot@fedora28-srv /l# nmcli connection modify enp0s8 ipv4.addresses +192.168.198.20/24
Błąd: zmodyfikowanie ipv4.addresses się nie powiodło: nieprawidłowy adres IP: Nieprawidłowy adres IP
v4 ____+192.168.190.20"
[root@fedora28-srv /l# nmcli connection modify enp@s8 +ipv4.addresses 192.168.190.20/24
[root@fedora28-srv /l# nmcli connection up enp@s3
Pomyślnie aktywowano połączenie (ścieżka aktywacji D-Bus: /org/freedesktop/NetworkManager/ActiveConn
ection/4)
[root@fedora28-srv /]# nmcli connection up enp0s8
Pomyślnie aktywowano połączenie (ścieżka aktywacji D-Bus: /org/freedesktop/NetworkManager/ActiveConn
ection/5)
[root@fedora28-srv /l# nmcli connection up enp0s9
Pomyślnie aktywowano połączenie (ścieżka aktywacji D-Bus: /org/freedesktop/NetworkManager/ActiveConn
ection/6)
[root@fedora28-srv /l# nmcli connection reload
[rootOfedora28-srv /]#
                                                                       Fedora 28_Terelak [Uruchomiona] - Oracle VM VirtualBox
                                                                              Maszyna Widok Weiście Urządzenia Pomo
                                                                         valid_lft forever preferred_lft forever
enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 100
                                                                        link/ether 08:00:27:d5:98:41 brd ff:ff:ff:ff:ff:ff:inet 172.30.10.20/24 brd 172.30.10.255 scope global noprefixroute enp0s8
    valid_lft forever preferred_lft forever
    inet 192.168.190.28/24 brd 192.168.190.255 scope global noprefixroute enp0s8
    valid_lft forever preferred_lft forever
    inet6 fd00::23/64 scope global noprefixroute
    valid_lft forever preferred_lft forever
    inet6 fd00::22/64 scope global noprefixroute
    valid_lft forever preferred_lft forever
    inet6 fd00::22/64 scope global noprefixroute
    valid_lft forever preferred_lft forever
    inet6 fd00::28/64 scope global noprefixroute
    valid_lft forever preferred_lft forever
    inet6 fd00::28/64 scope global noprefixroute
    valid_lft forever preferred_lft forever
    inet6 fd00::28/64 scope global noprefixroute
    valid_lft forever preferred_lft forever
    inet6 fe00::1690:733d:4214:a9f0/64 scope link
    valid_lft forever preferred_lft forever
enp0s9: <a href="mailto:KDOACAST.MULTICAST.UP.LOWER_UP">KDOACAST.MULTICAST.UP.LOWER_UP</a> mtu 1500 gdisc fq_codel state UP group default glen 100
                                                                            link/ether 08:00:27:d5:98:41 brd ff:ff:ff:ff:ff:ff
                                                                           link/ether 08:00:27:fe:b4:a2 brd ff:ff:ff:ff:ff
inet 192.168.56.103/24 brd 192.168.56.255 scope global dynamic noprefixroute enp0s9
valid_lft 441sec preferred_lft 441sec
inet6 fe00:1bcc:3c3:662a:8966/64 scope link noprefixroute
                                                                         valid_lft forever preferred_lft forever
oot@fedora28-srv /l#
```

Testowanie połączenia:

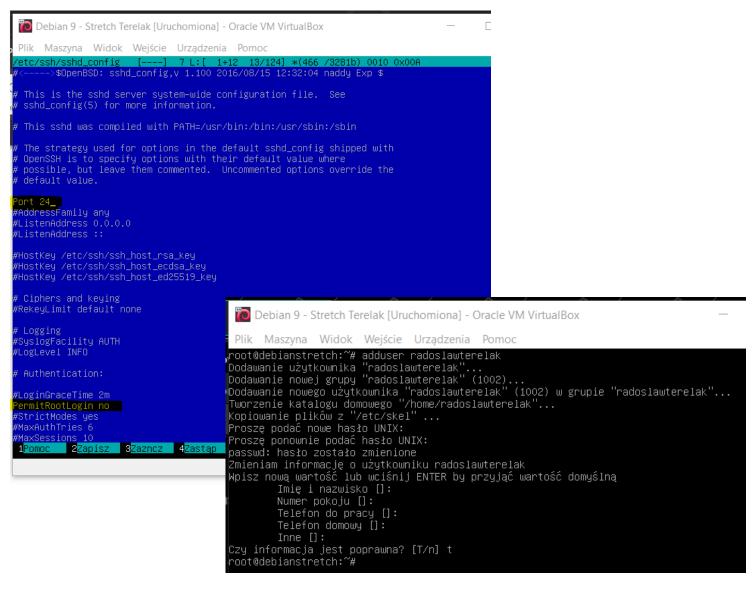
```
🌠 Fedora 28_Terelak [Uruchomiona] - Oracle VM VirtualBox
  Plik Maszyna Widok Wejście Urządzenia Pomoc
[root@fedora28-srv /]# ping www.google.com
PING www.google.com (142.250.203.132) 56(84) bytes of data.
64 bytes from waw07s06-in-f4.1e100.net (142.250.203.132): icmp_seq=1 ttl=120 time=11.4 ms 64 bytes from waw07s06-in-f4.1e100.net (142.250.203.132): icmp_seq=2 ttl=120 time=7.14 ms
 --- www.google.com ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1000ms rtt min/avg/max/mdev = 7.149/9.321/11.493/2.172 ms
[root@fedora28-srv /]# ping 172.30.10.10
PING 172.30.10.10 (172.30.10.10) 56(84) bytes of data.
64 bytes from 172.30.10.10: icmp_seq=1 ttl=64 time=0.767 ms
64 bytes from 172.30.10.10: icmp_seq=2 ttl=64 time=0.493 ms
 ^c
--- 172.30.10.10 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1043ms
rtt min/avg/max/mdev = 0.493/0.630/0.767/0.137 ms
[root@fedora28-srv /]# ping 192.168.190.10
PING 192.168.190.10 (192.168.190.10) 56(84) bytes of data.
64 bytes from 192.168.190.10: icmp_seq=1 ttl=64 time=0.660 ms 64 bytes from 192.168.190.10: icmp_seq=2 ttl=64 time=0.322 ms
 ^C
 --- 192.168.190.10 ping statistics --
2 packets transmitted, 2 received, 0% packet loss, time 1063ms rtt min/avg/max/mdev = 0.322/0.491/0.660/0.169 ms
[root@fedora28-srv /]# ping 192.168.56.101
PING 192.168.56.101 (192.168.56.101) 56(84) bytes of data.
64 bytes from 192.168.56.101: icmp_seq=1 ttl=64 time=0.735 ms
64 bytes from 192.168.56.101: icmp_seq=2 ttl=64 time=0.447 ms
--- 192.168.56.101 ping statistics --- 2 packets transmitted, 2 received, 0% packet loss, time 1005ms rtt min/avg/max/mdev = 0.447/0.591/0.735/0.144 ms
 [root@fedora28-srv /]# _
```

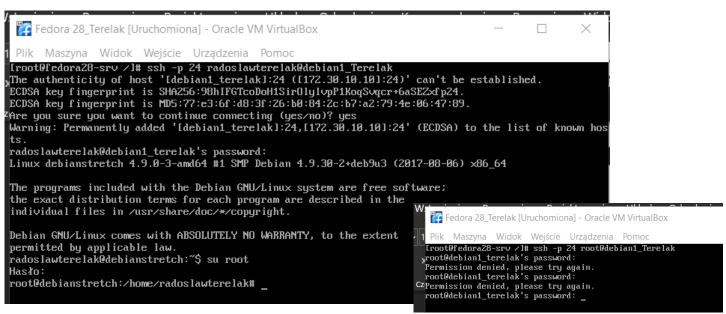
Zadanie 2





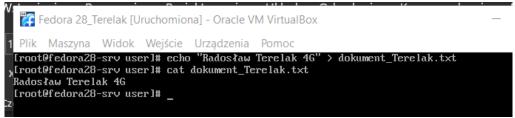
Zadanie 3

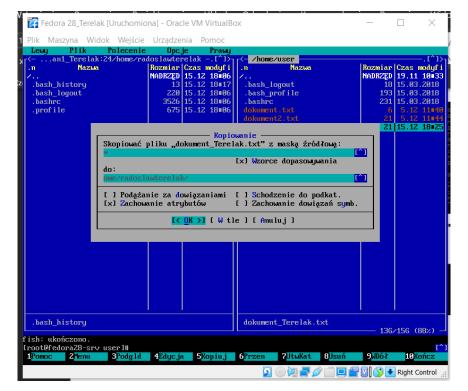


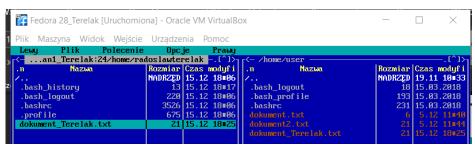


```
radoslawterelak@debianstretch:/home/user

| login as: radoslawterelak
| radoslawterelak@debianstretch | home/user
| radoslawterelak@debianstretch: home/user | radoslawterelak@debianstretch: home/user | radoslawterelak@debianstretch: home/user | radoslawterelak@debianstretch: home/user | radoslawterelak@debianstretch: home/user | radoslawterelak@debianstretch: home/user | radoslawterelak@debianstretch: home/user | radoslawterelak@debianstretch: home/user | radoslawterelak@debianstretch: home/user | radoslawterelak@debianstretch: home/user | radoslawterelak@debianstretch: home/user | radoslawterelak@debianstretch: home/user | radoslawterelak@debianstretch: home/user | radoslawterelak@debianstretch: home/user | radoslawterelak@debianstretch
```







```
Debian 9 - Stretch Terelak [Uruchomiona] - Oracle VM VirtualBox

Plik Maszyna Widok Wejście Urządzenia Pomoc

root@debianstretch:~# cd /home/radoslawterelak

root@debianstretch:/home/radoslawterelak# ls

dokument_Terelak.txt

root@debianstretch:/home/radoslawterelak# cat dokument_Terelak.txt

Radosław Terelak 4G

root@debianstretch:/home/radoslawterelak#
```