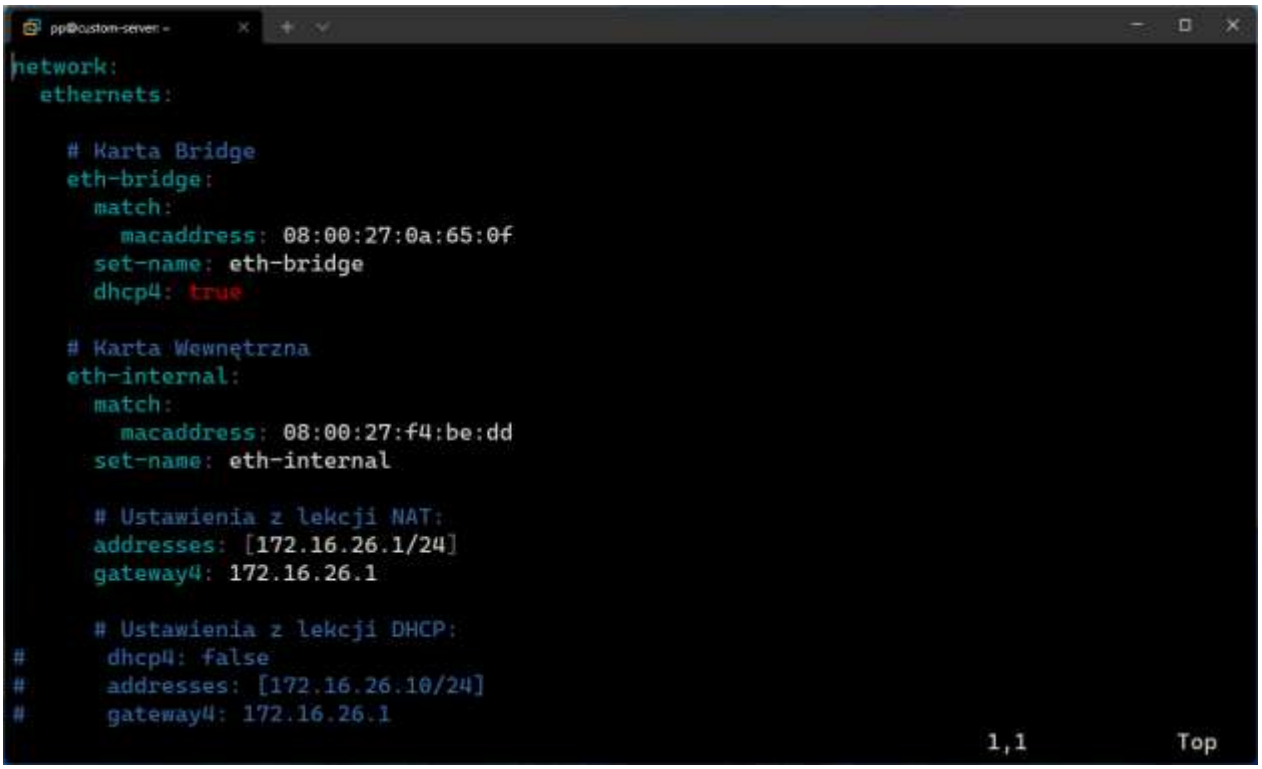
NAT

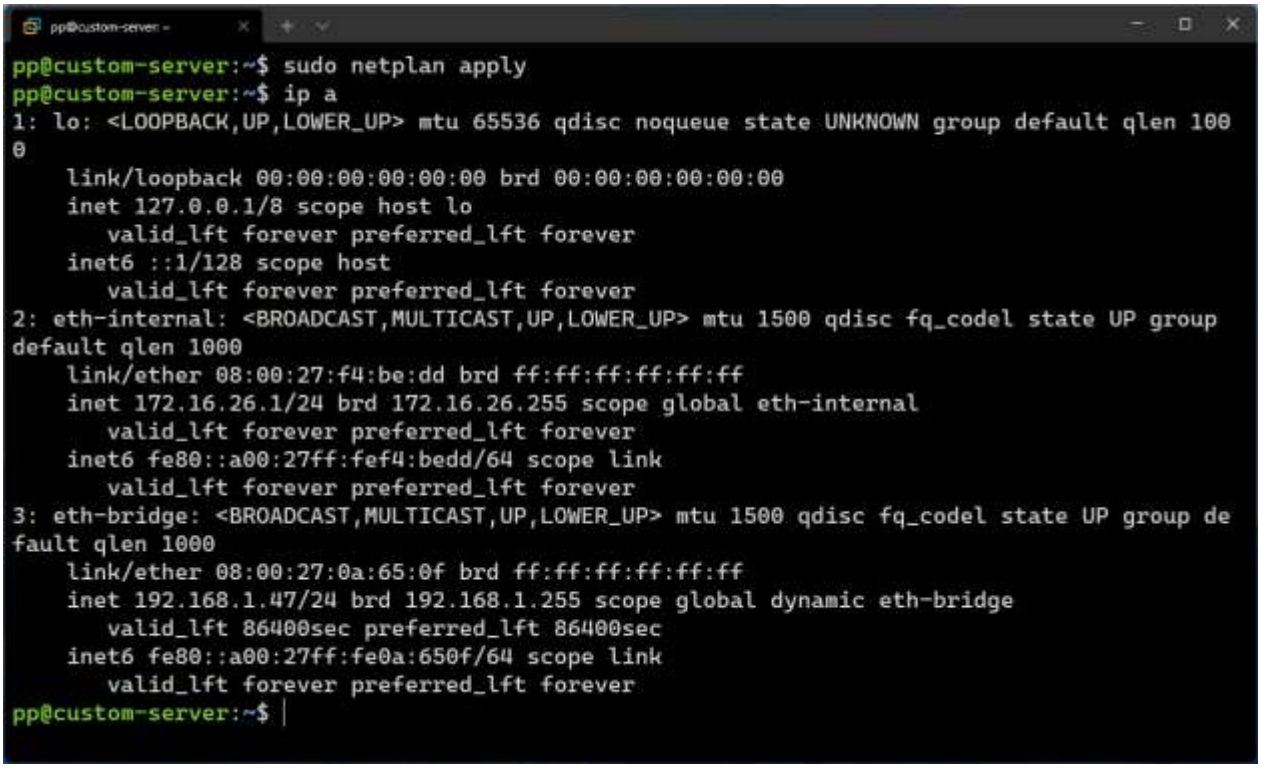
Spis treści

1. Konfiguracja kart sieciowych

Linux - serwer

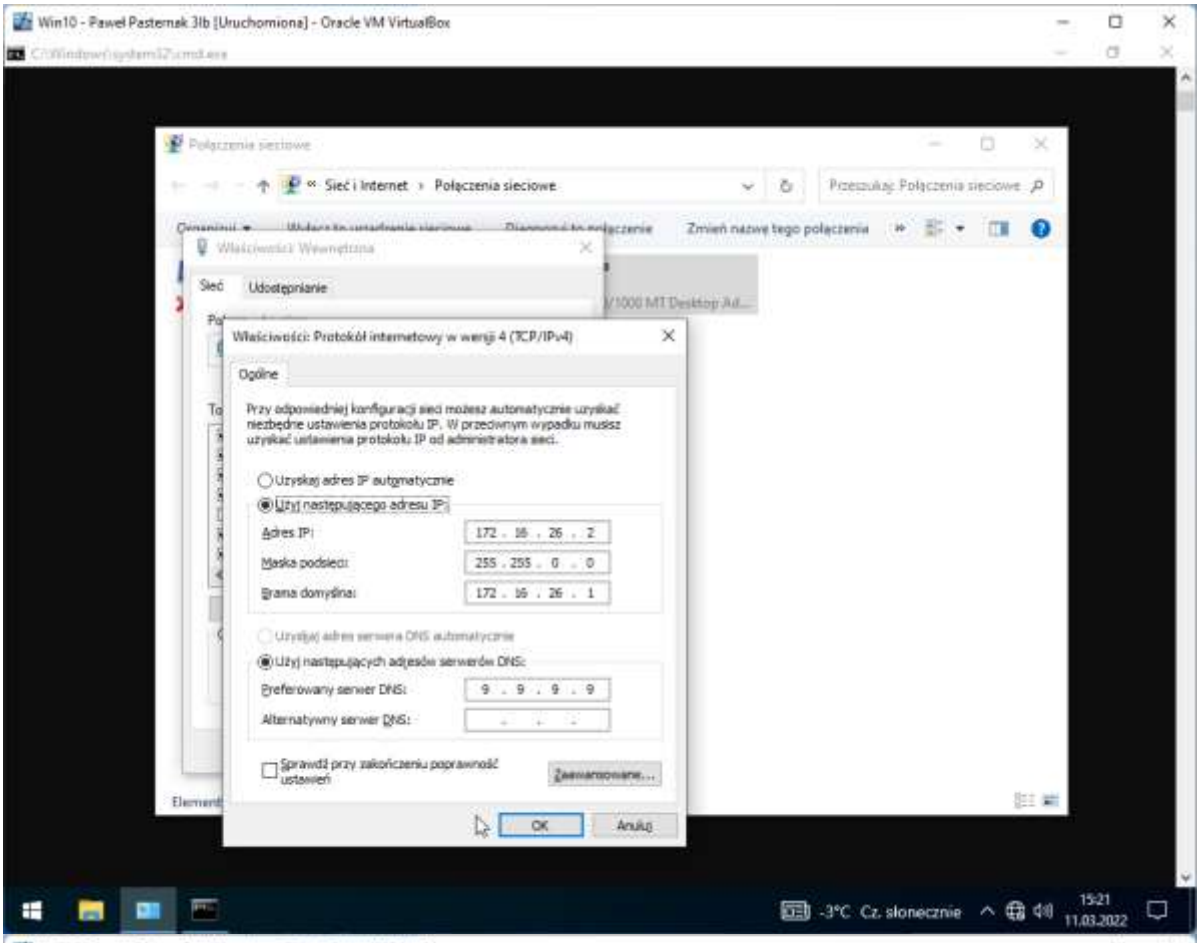


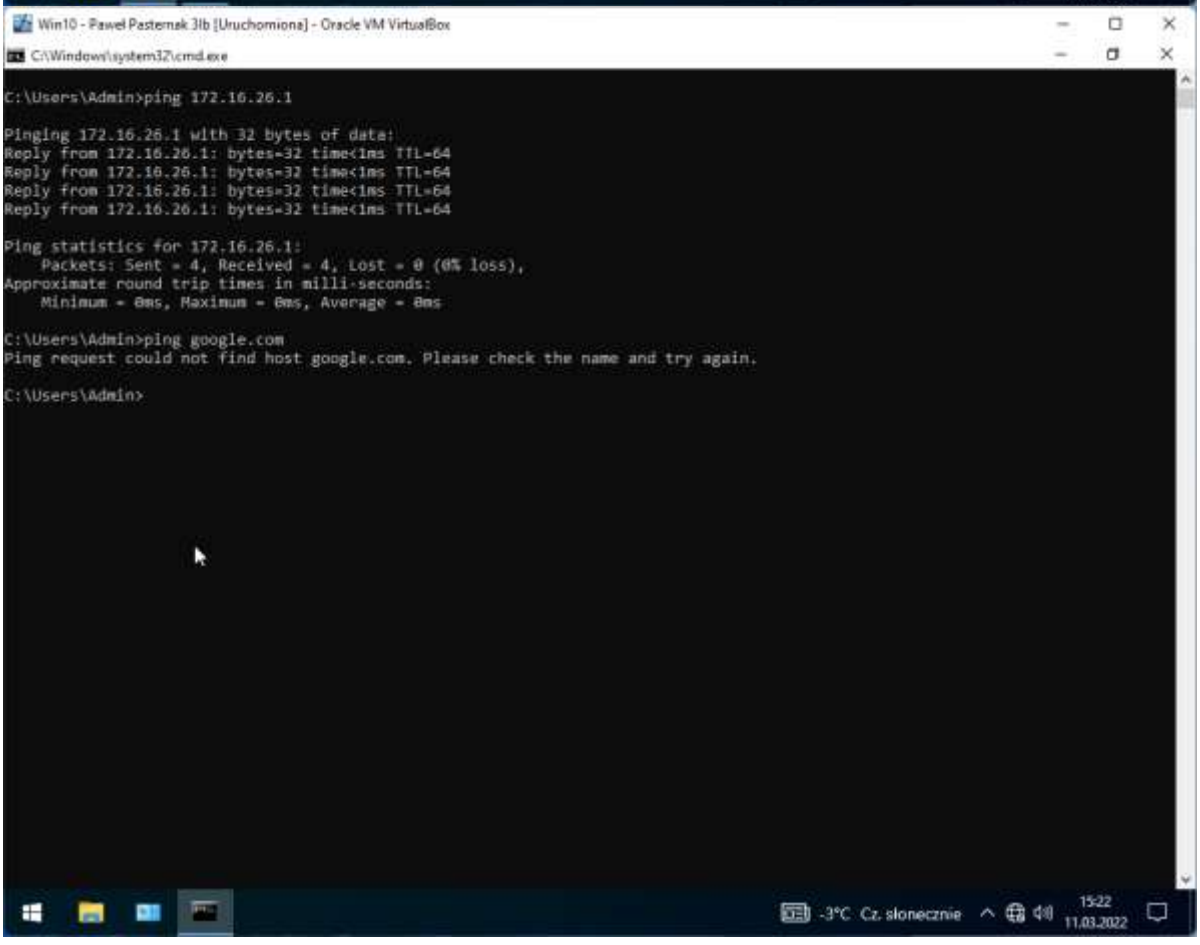
```
network:
  ethernets:

    # Karta Bridge
    eth-bridge:
      match:
        macaddress: 08:00:27:0a:65:0f
      set-name: eth-bridge
      dhcp4: true

    # Karta Wewnętrzna
    eth-internal:
      match:
        macaddress: 08:00:27:f4:be:dd
      set-name: eth-internal

      # Ustawienia z lekcji NAT:
      addresses: [172.16.26.1/24]
      gateway4: 172.16.26.1

      # Ustawienia z lekcji DHCP:
#      dhcp4: false
#      addresses: [172.16.26.10/24]
#      gateway4: 172.16.26.1
                                                    1,1           Top
```



```
pp@custom-server:~$ sudo netplan apply
pp@custom-server:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 100
0
    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: eth-internal: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group
default qlen 1000
    link/ether 08:00:27:f4:be:dd brd ff:ff:ff:ff:ff:ff
    inet 172.16.26.1/24 brd 172.16.26.255 scope global eth-internal
       valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fef4:bedd/64 scope link
       valid_lft forever preferred_lft forever
3: eth-bridge: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group de
fault qlen 1000
    link/ether 08:00:27:0a:65:0f brd ff:ff:ff:ff:ff:ff
    inet 192.168.1.47/24 brd 192.168.1.255 scope global dynamic eth-bridge
       valid_lft 86400sec preferred_lft 86400sec
    inet6 fe80::a00:27ff:fe0a:650f/64 scope link
       valid_lft forever preferred_lft forever
pp@custom-server:~$
```

Windows – klient

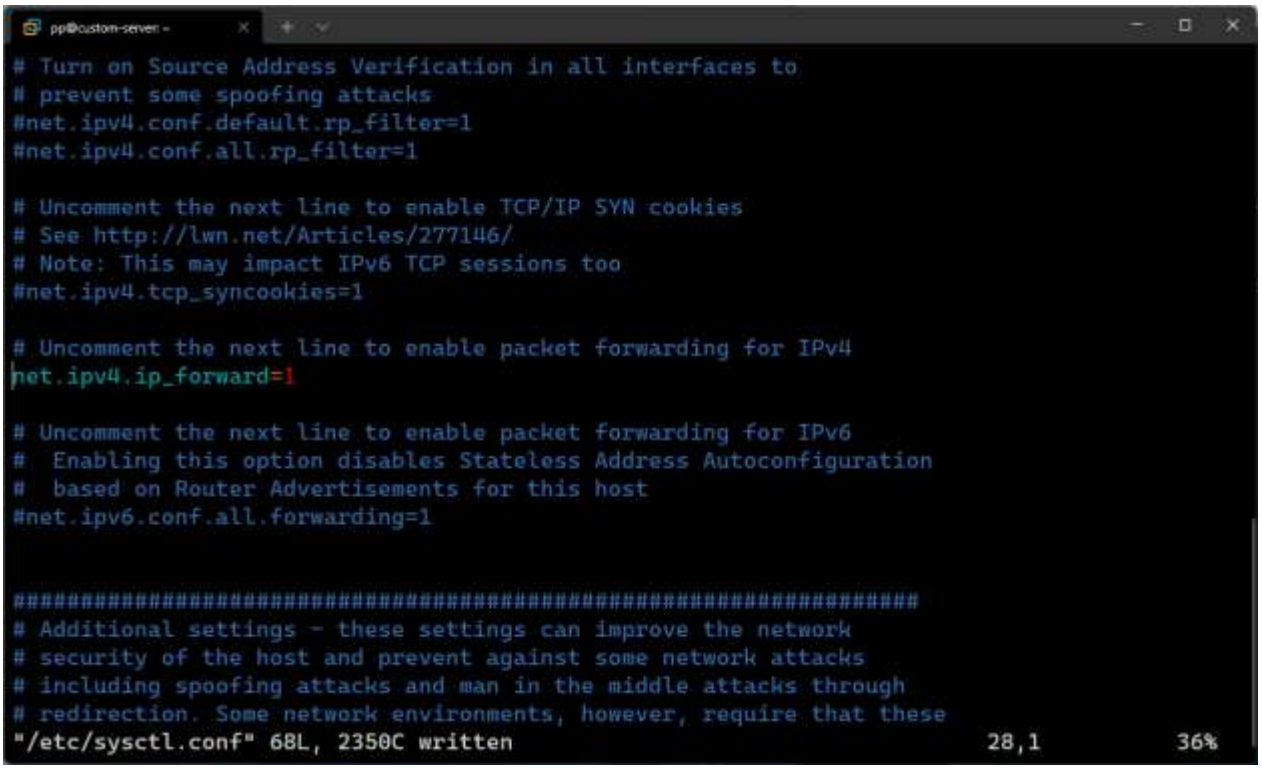




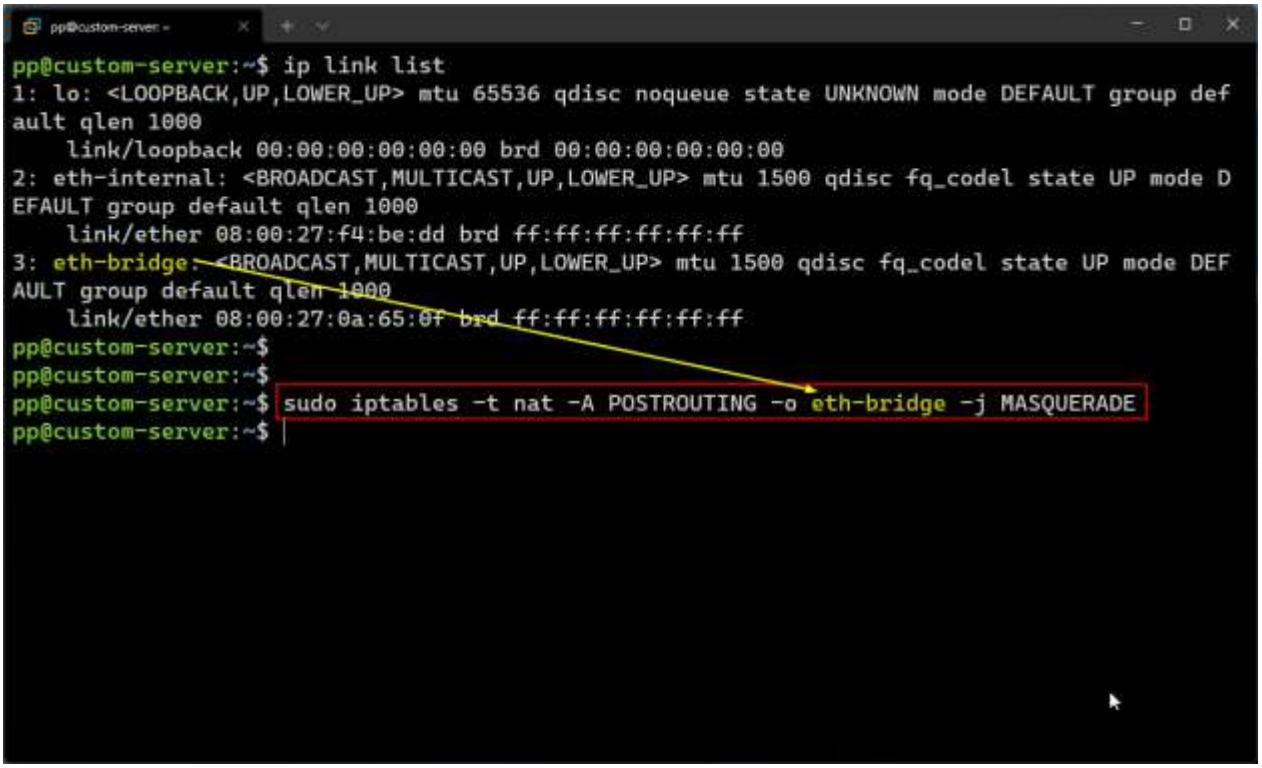
pingowanie w sieci lokalnej działa, natomiast nie ma dostępu do internetu

2. Ustawienie NAT

Włączenie przekierowanie ramek IP



Włączenie NAT-a za pomocą iptables



Dodanie polecenia do crona