Vaja 9

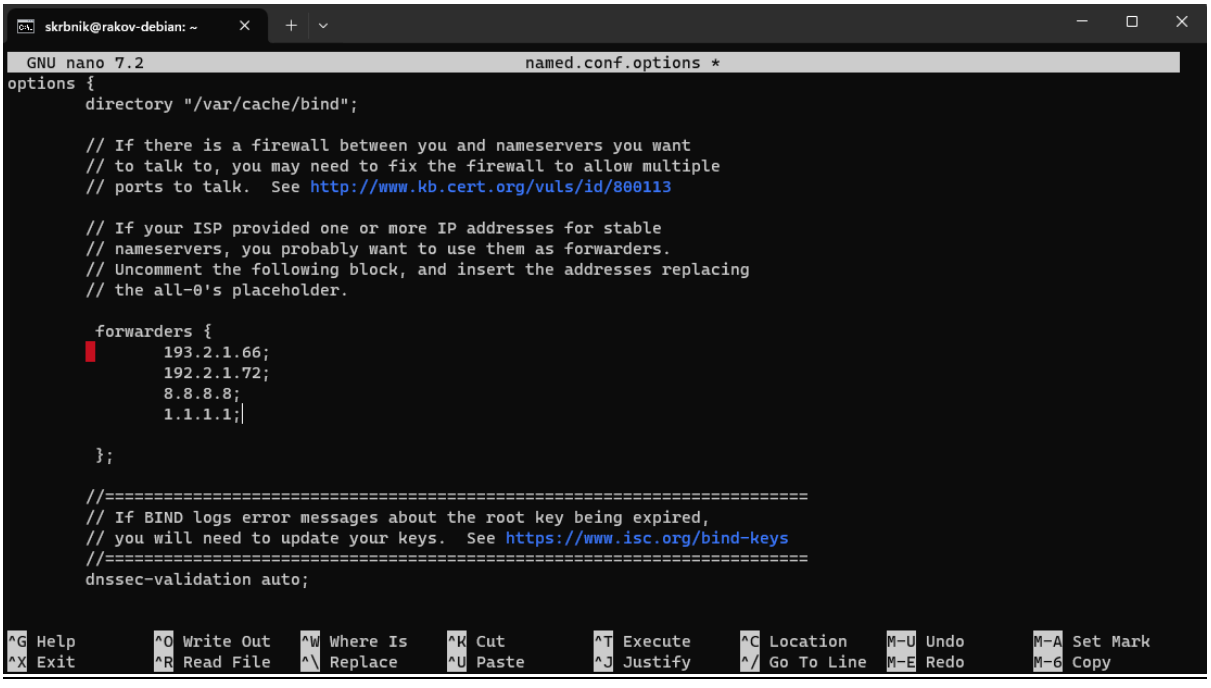
ssh-jamo se v server za boljši dostop

```
skrbnik@rakov-debian: ~
Microsoft Windows [Version 10.0.22631.2506]
(c) Microsoft Corporation. Vse pravice pridržane.

C:\Users\Vegova>ssh skrbnik@192.168.56.10
The authenticity of host '192.168.56.10 (192.168.56.10)' can't be established.
ED25519 key fingerprint is SHA256:ETW/XTadtjqjY/8eQKPjHG0mFIUoRECttHtHKr3t4hI.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.56.10' (ED25519) to the list of known hosts.
skrbnik@192.168.56.10's password:
Linux rakov-debian 6.1.0-31-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.1.128-1 (2025-02-07) x86_64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Mon Mar 24 07:47:51 2025
skrbnik@rakov-debian:~$
```

1. skrbnik@rakov-debian:~$ sudo su
2. root@rakov-debian:/home/skrbnik# apt update
3. root@rakov-debian:/home/skrbnik# apt install bind9
4. root@rakov-debian:/home/skrbnik# cd /etc/bind

db. - datoteke z vpisi dns (če ls-jamo, vidimo datoteke. Tiste ki se začnejo z db. so datoteke z vpisi dns)

5. root@rakov-debian:/etc/bind# nano named.conf.options

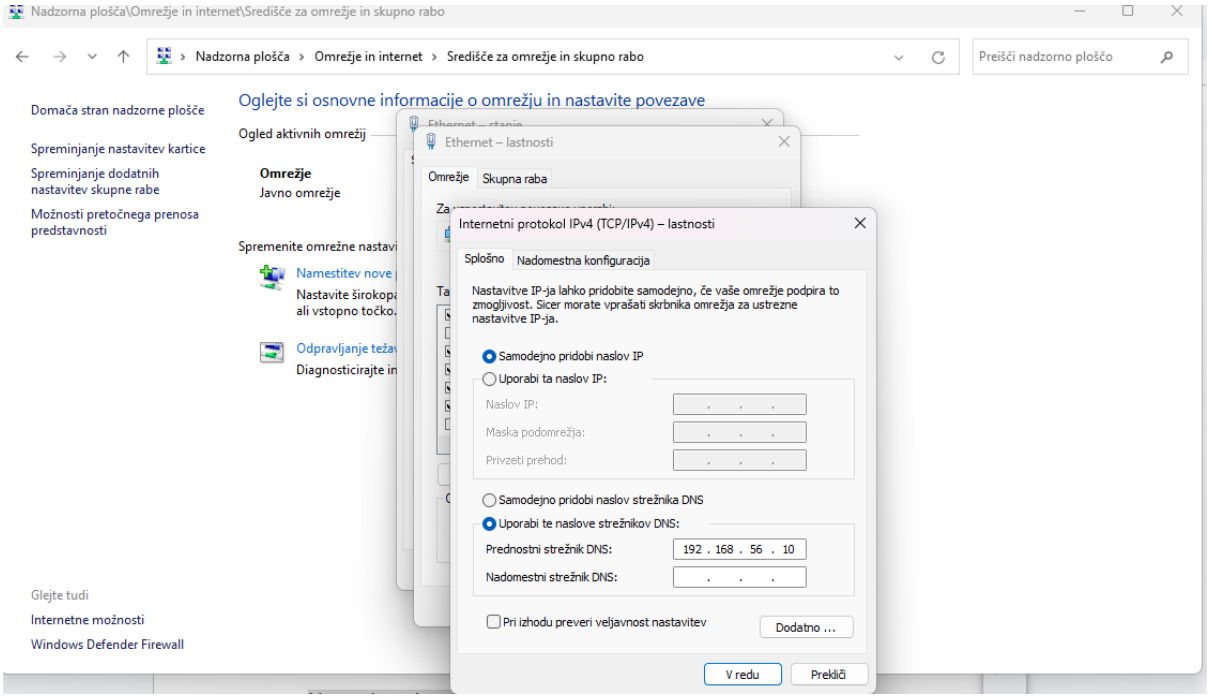


6. root@rakov-debian:/etc/bind# systemctl restart named

(navadni cmd)

```
C:\Users\Vegova>nslookup www.vegova.si 192.168.56.10
Server:  UnKnown
Address:  192.168.56.10

Non-authoritative answer:
Name:    www.vegova.si
Address:  194.249.3.118


C:\Users\Vegova>
```

Nastavimo dns server: (na windows pc-ju)

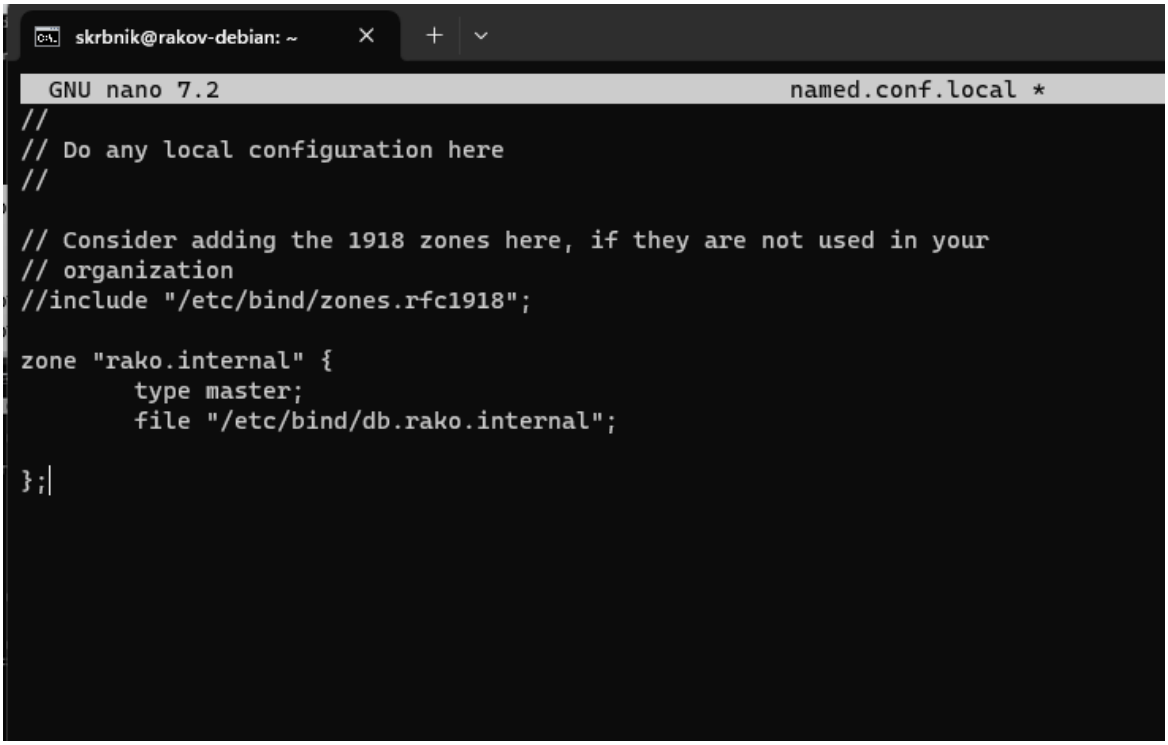


TEST (na windos pc-ju)

```
C:\Users\Vegova>nslookup www.vegova.si
Server:  UnKnown
Address:  192.168.56.10

Non-authoritative answer:
Name:    www.vegova.si
Address:  194.249.3.118


C:\Users\Vegova>
```

Debian:

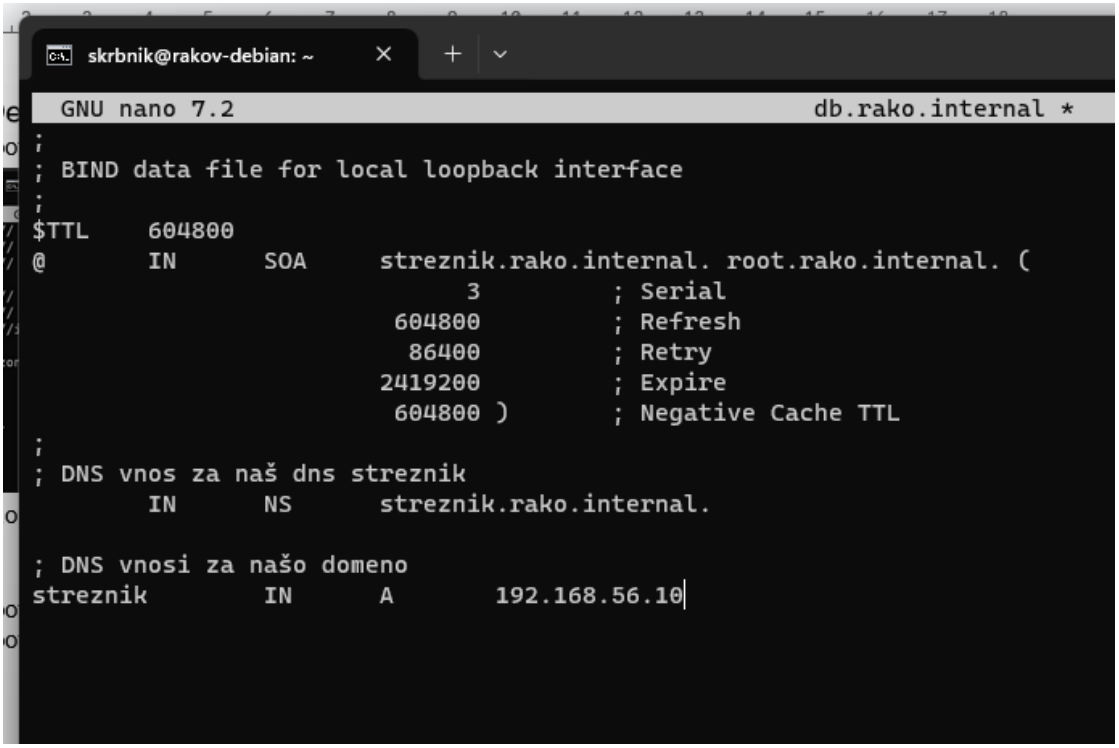
root@rakov-debian:/etc/bind# nano named.conf.local



(zone: naš server je zadolžen za domeno rako.internal)

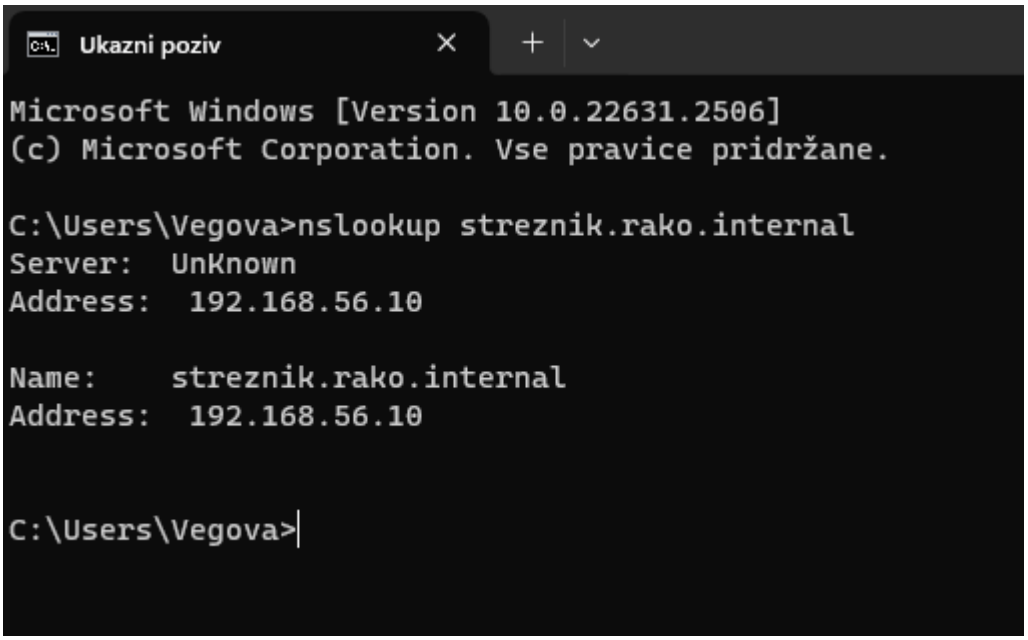
root@rakov-debian:/etc/bind# cp db.local db.rako.internal

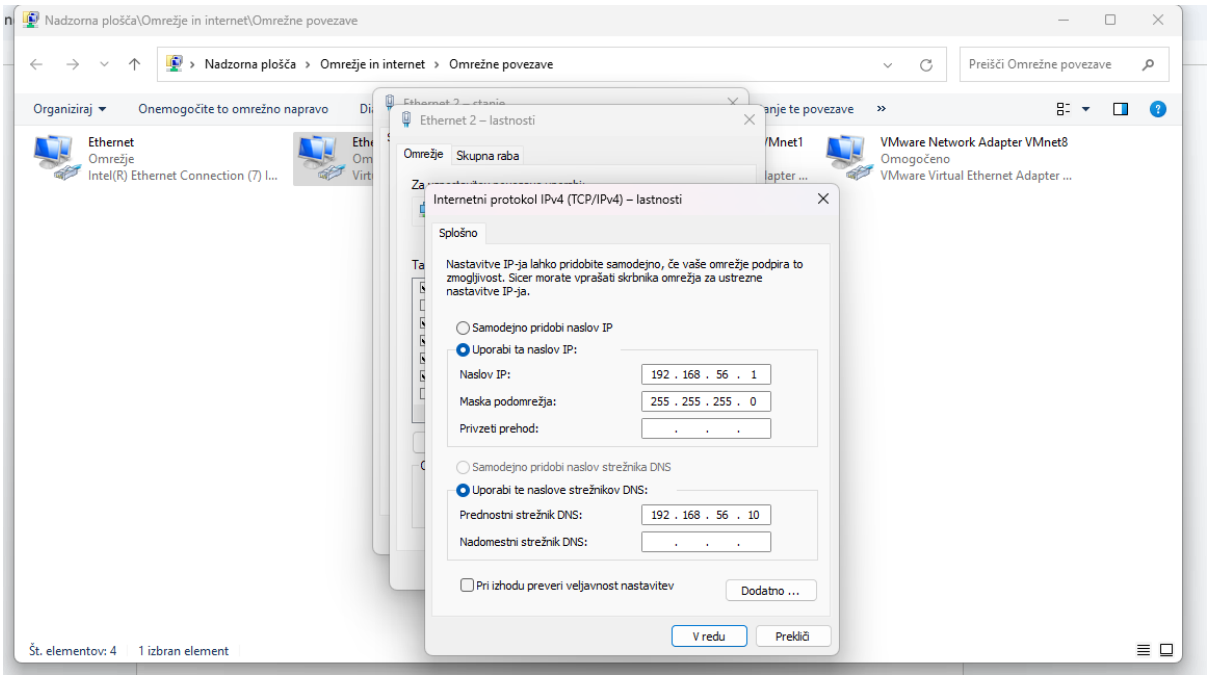
root@rakov-debian:/etc/bind# nano db.rako.internal



root@rakov-debian:/etc/bind# systemctl restart named

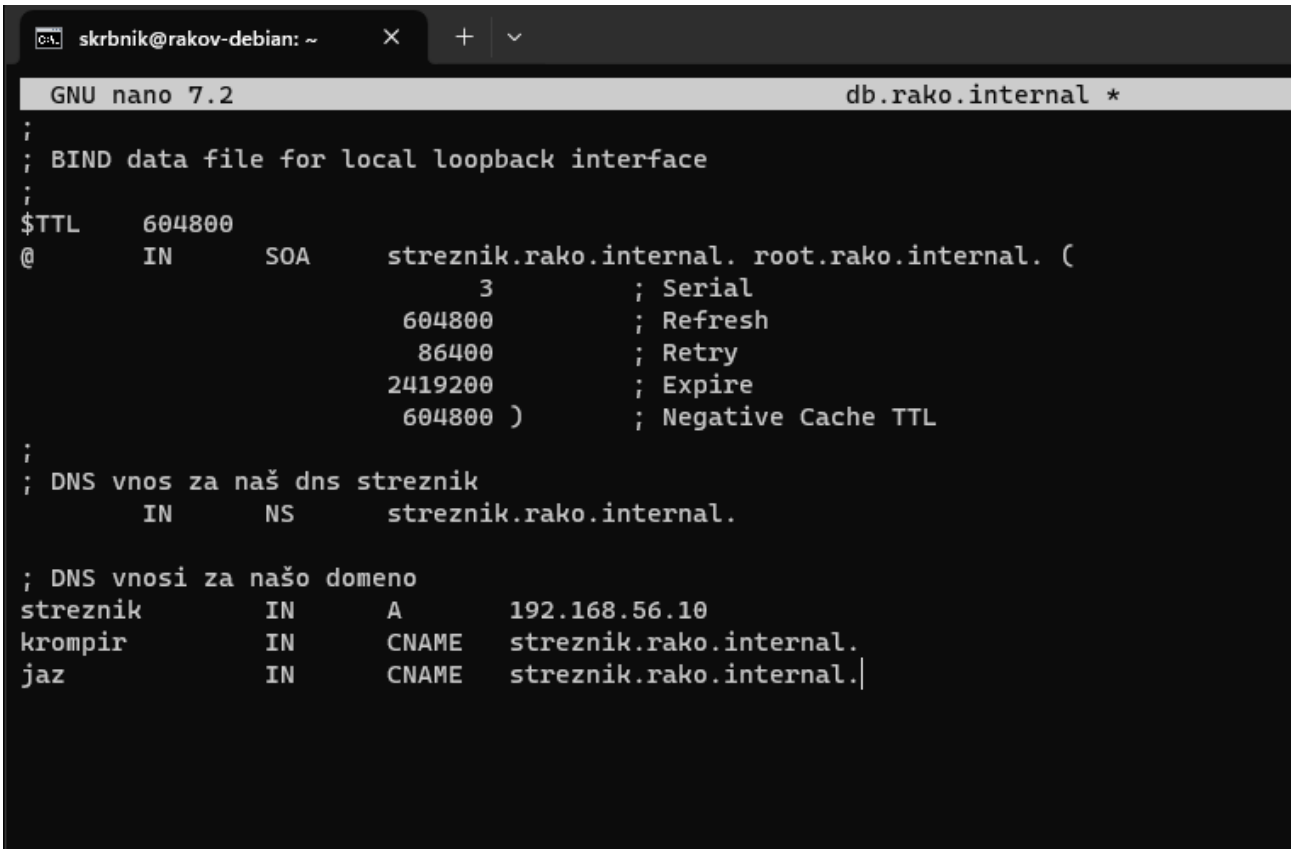
test (windows pc)





nato onemogočimo ethernet, ter v brskalnik napišemo:

root@rakov-debian:/etc/bind# nano db.rako.internal



root@rakov-debian:/etc/bind# systemctl restart named

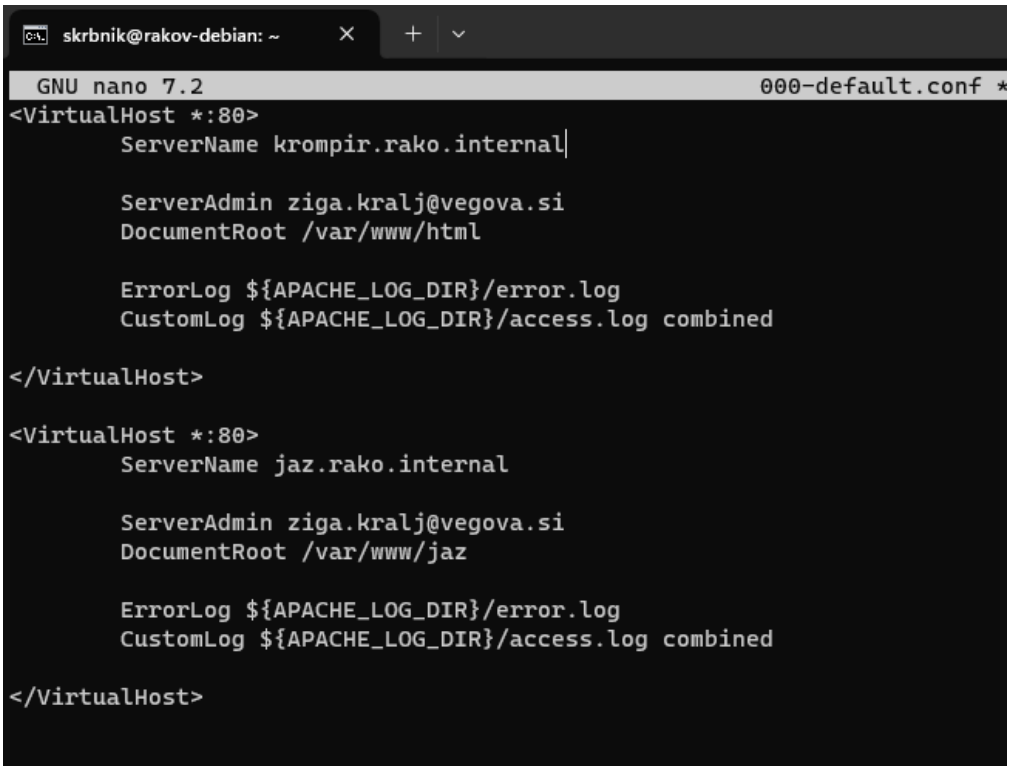
Za test napišemo v browser: *jaz.rako.internal* ali pa *krompir.rako.internal* . Mora se nam pokazati stran s praženim krompirjem od Kralja.

Preskočili smo del z obratno ip cono

Debian:

root@rakov-debian:/etc/bind# cd /etc/apache2/sites-available/

root@rakov-debian:/etc/apache2/sites-available# nano 000-default.conf



root@rakov-debian:/etc/apache2/sites-available# systemctl restart apache2

root@rakov-debian:/etc/apache2/sites-available# cd /var/www

root@rakov-debian:/var/www# mkdir jaz

root@rakov-debian:/var/www# chown -R skrbnik:www-data jaz

root@rakov-debian:/var/www# chmod 775 jaz

root@rakov-debian:/var/www# ls -la

total 16

drwxr-xr-x 4 root root 4096 Mar 24 08:41 .

drwxr-xr-x 12 root root 4096 Mar 10 08:21 ..

drwxrwxr-x 2 skrbnik www-data 4096 Mar 10 08:54 html

drwxrwxr-x 2 skrbnik www-data 4096 Mar 24 08:41 jaz

root@rakov-debian:/var/www# exit

skrbnik@rakov-debian:/var/www/jaz$ nano index.html

skrbnik@rakov-debian:/var/www/jaz$

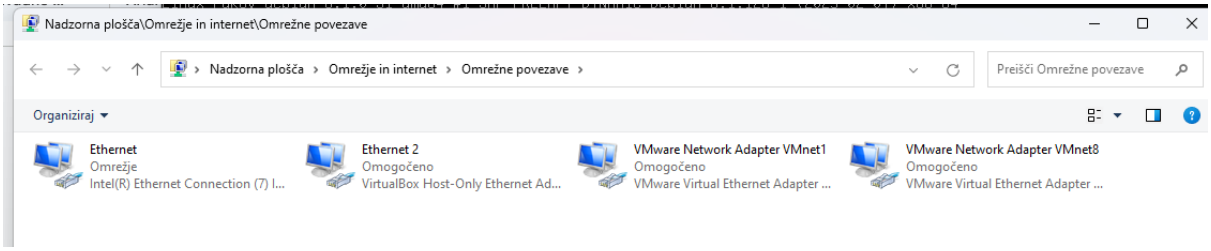
vaja 10

Prenesemo debian file in ga zaženemo v virtual boxu (2 krat klikni na .vbox file)

V etc so konfiguracijske datoteke

Uporabnik: skrbnik

Geslo: Passw0rd!



CMD (windows): ifconfig

sudo su

nano /etc/network/interfaces

iface enp0s3 inet static

```
  GNU nano 7.2                                                  /etc/network/interfaces *
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
allow-hotplug enp0s8
iface enp0s8 inet dhcp

iface enp0s3 inet static
        address 192.168.56.10/24
        gateway 192.168.56.1
```

```
  GNU nano 7.2                                                  /etc/network/interfaces *
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
allow-hotplug enp0s8
iface enp0s8 inet dhcp

auto enp0s3

iface enp0s3 inet static
        address 192.168.56.10/24
#_      gateway 192.168.56.1
```

```
root@rakov-debian:/home/skrbnik# ifup enp0s3
RTNETLINK answers: File exists
ifup: failed to bring up enp0s3
root@rakov-debian:/home/skrbnik# ip a
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 noprefixroute
       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:fc:be:51 brd ff:ff:ff:ff:ff:ff
    inet 192.168.56.10/24 brd 192.168.56.255 scope global enp0s3
       valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fefc:be51/64 scope link
       valid_lft forever preferred_lft forever
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:3c:87:f9 brd ff:ff:ff:ff:ff:ff
    inet 10.0.3.15/24 brd 10.0.3.255 scope global dynamic enp0s8
       valid_lft 85301sec preferred_lft 85301sec
    inet6 fe80::a00:27ff:fe3c:87f9/64 scope link
       valid_lft forever preferred_lft forever
root@rakov-debian:/home/skrbnik#
```

v windowsu: ping 192.168.56.10. Moralo biti pingati

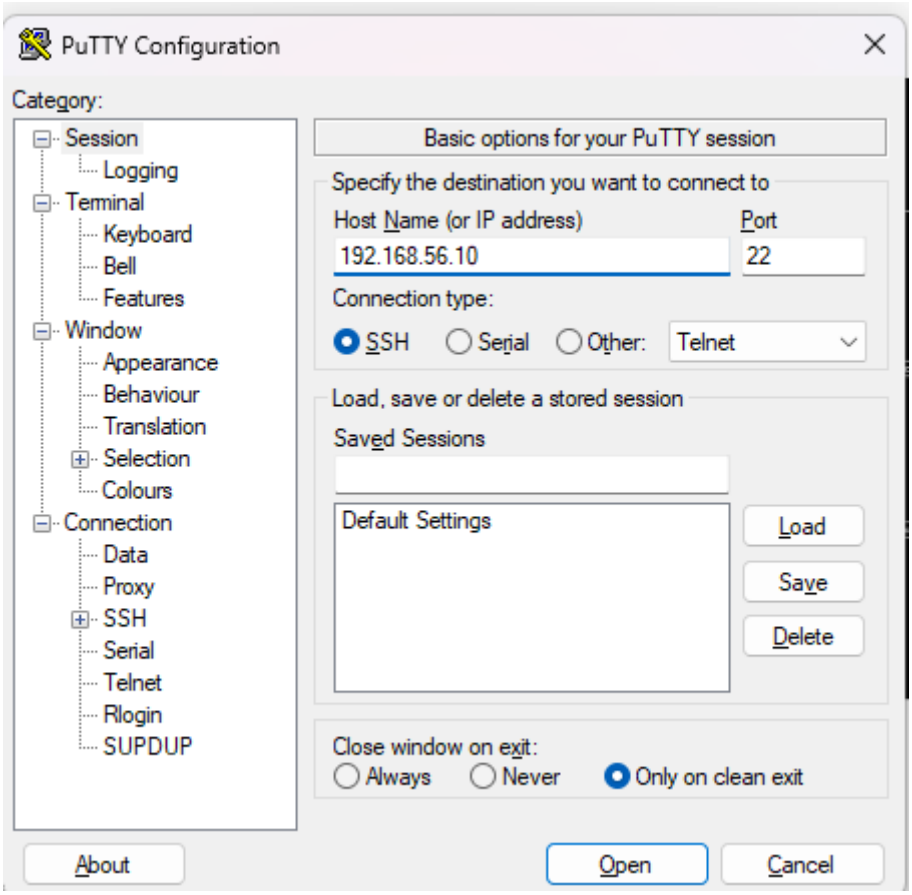
Linux:

sudo apt install openssh-server

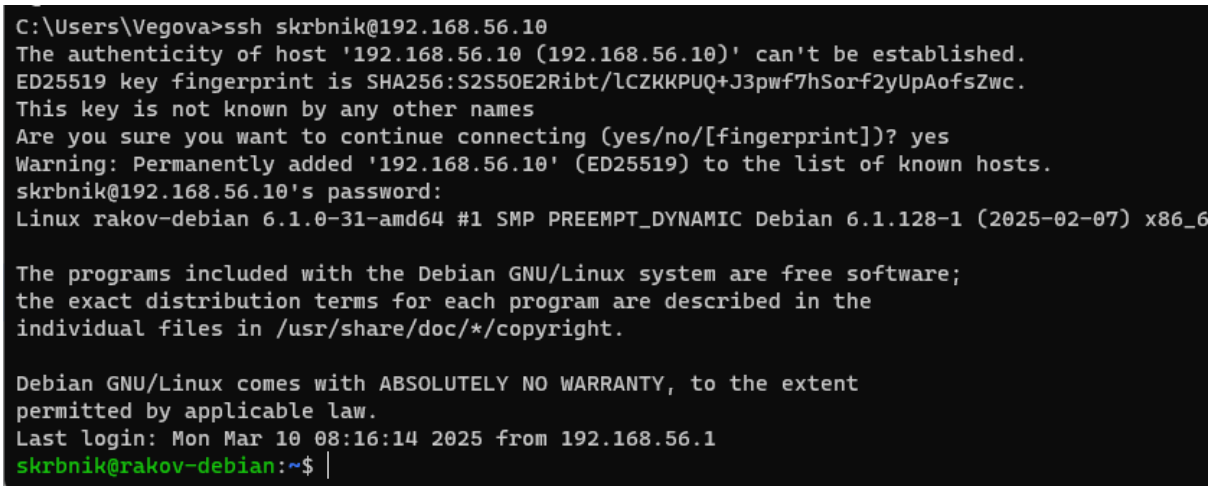
```
root@rakov-debian:/home/skrbnik# apt install openssh-server
```

pojdi na putty in se poveži s ssh

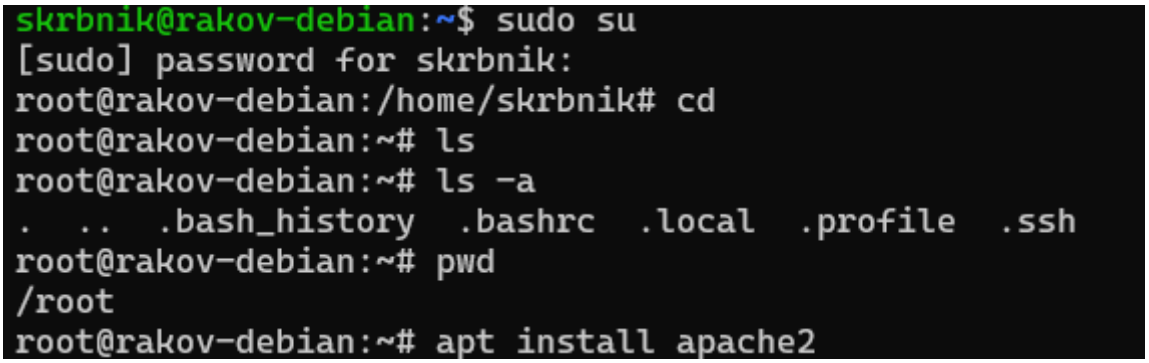
Poveži se s shh



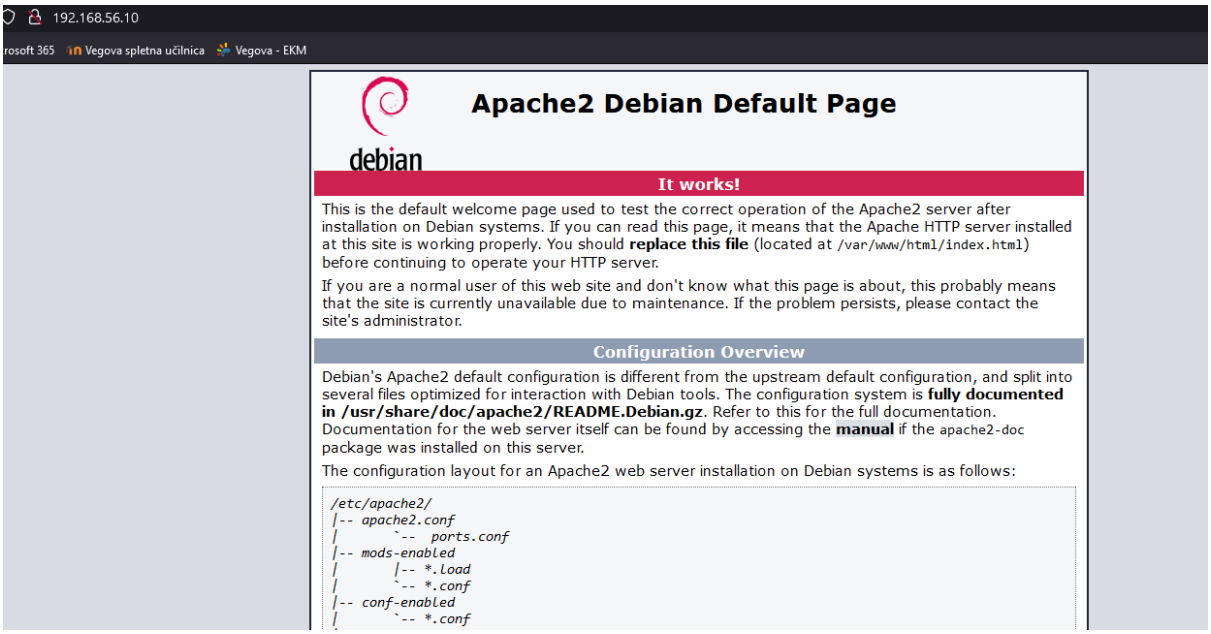
Lahko se prijavimo tudi tako preko ssh (v windowsu):



Nastavimo http strežnik



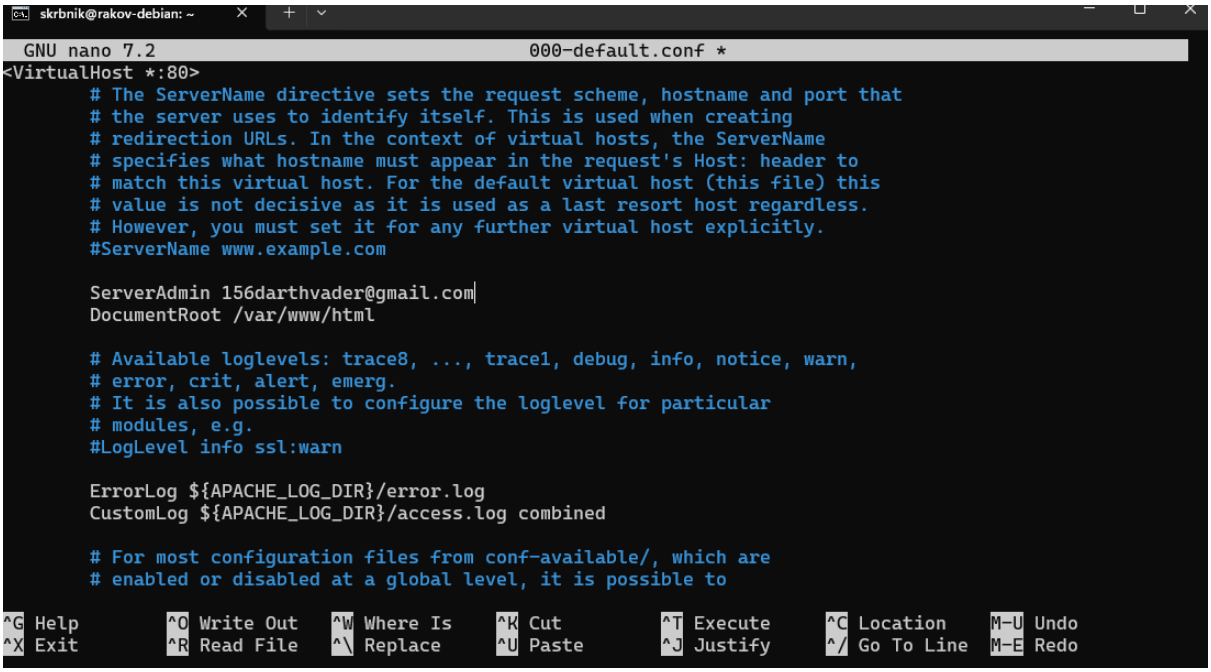
gremo na naš ip z browserjem

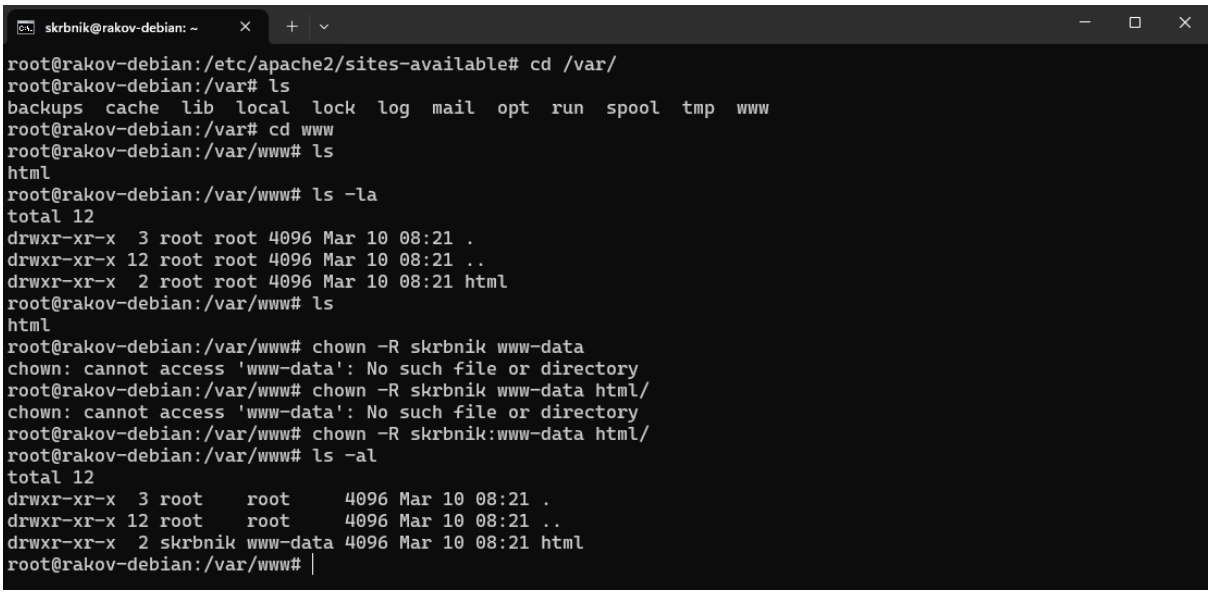


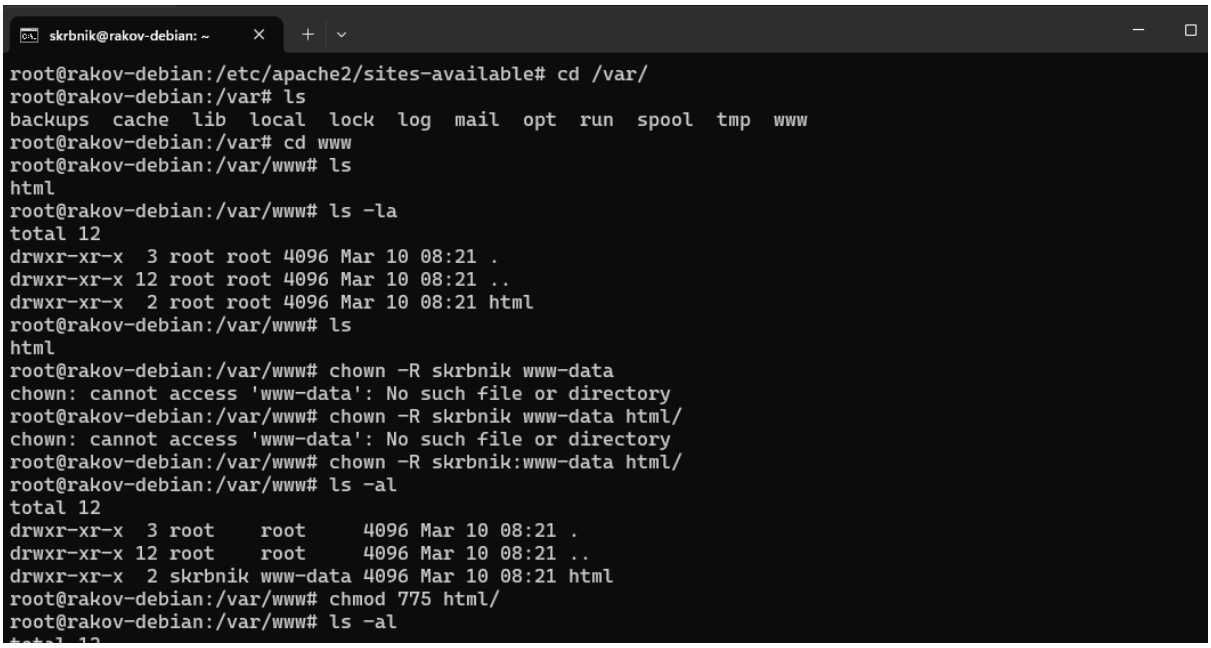
Nastavimo error 404 sporočilo:

```
root@rakov-debian:~# cd /etc/apache2/sites-available/
root@rakov-debian:/etc/apache2/sites-available# ls
000-default.conf  default-ssl.conf
root@rakov-debian:/etc/apache2/sites-available#
```

nano 000-default.conf







Nastavimo spletno stran:

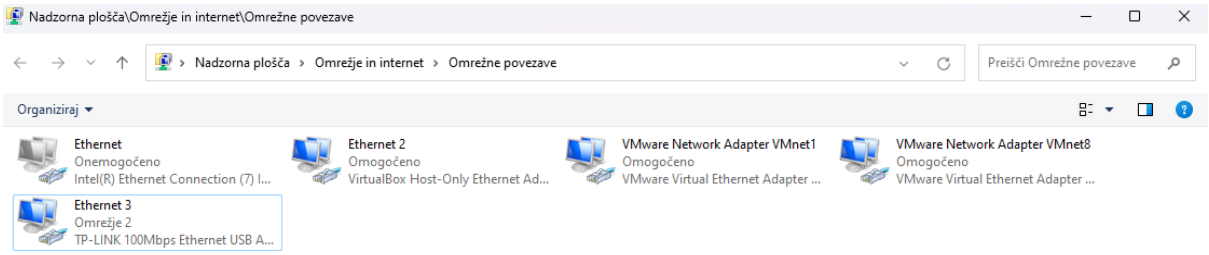
v ssh damo

Na testu

dobimo fizični router, zvežemo ju in povežemo vm in pc. Potem lahko uporabljamo internet

VAJA 11

onemogočimo vmesnik ethernet



na ethernet 3 dobimo od dhcp ip naslov

proklopimo router

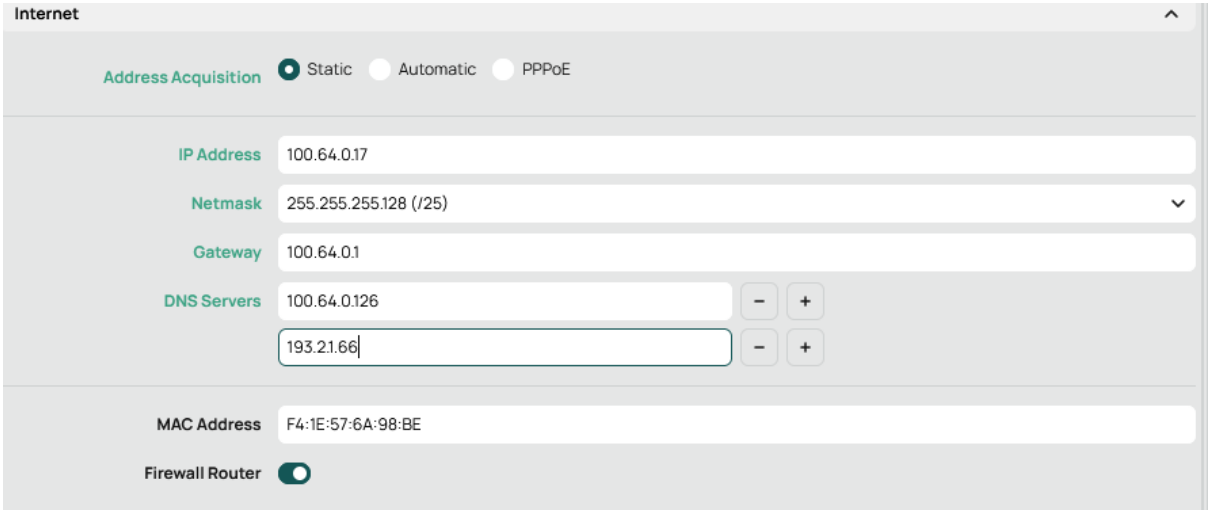
```
Ethernet adapter Ethernet 3:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::5728:722f:8530:19de%38
   IPv4 Address. . . . . . . . . . . : 192.168.88.254
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : 192.168.88.1
PS C:\Users\Vegova>
```

192.168.88.1 v browser, da dostopamo do vmesnika

Najdemo password na listku od routerja

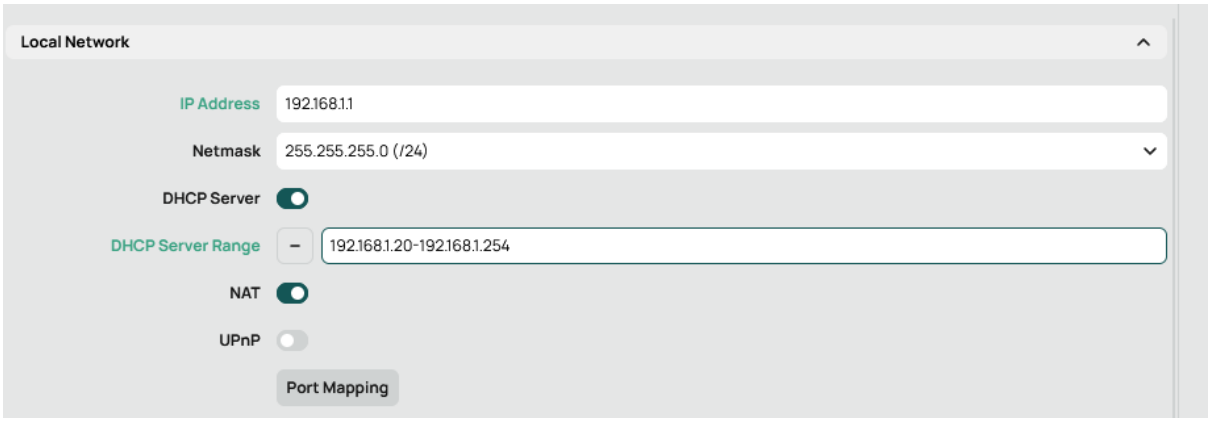
coko

nastavimo static ip, ter vse ostalo:



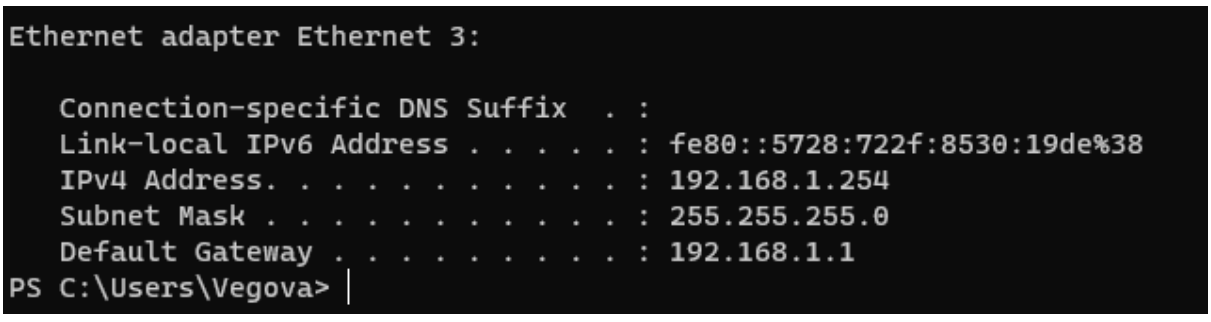
Testiramo:

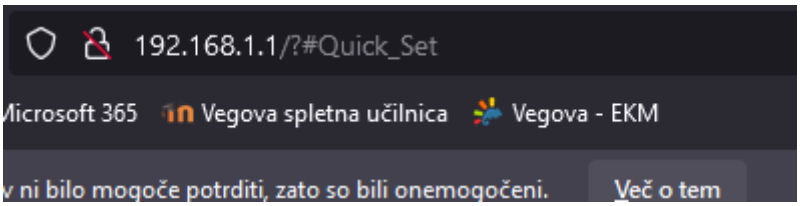
ping 8.8.8.8



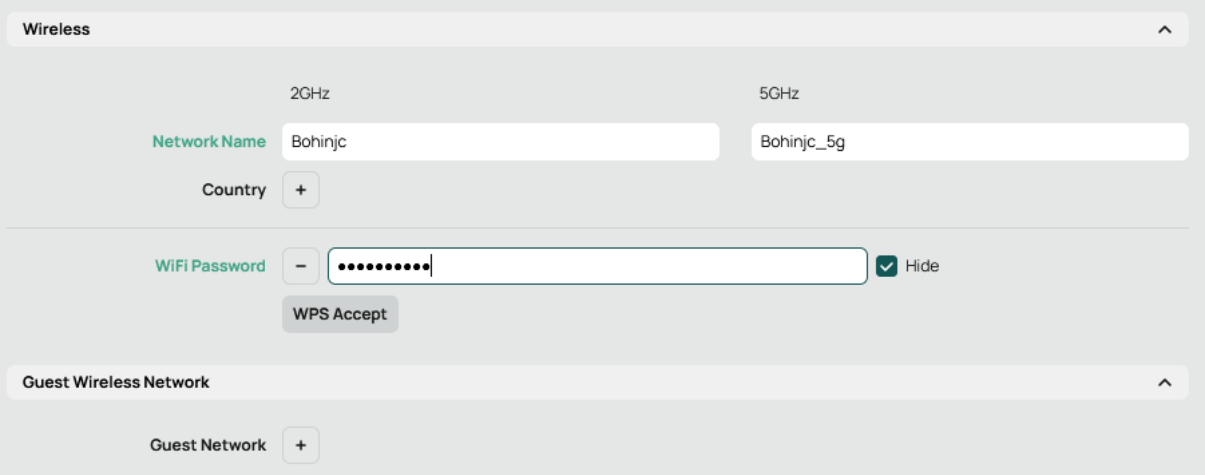
Izlopimo router za 15 sekund in ga vklopimo nazaj

Ipconfig – dobimo nov ip



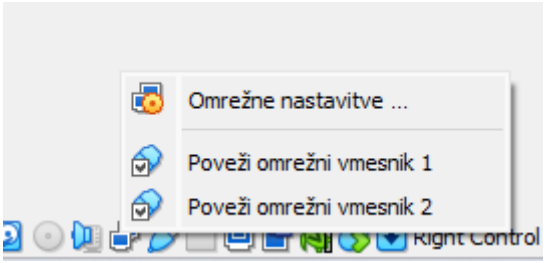


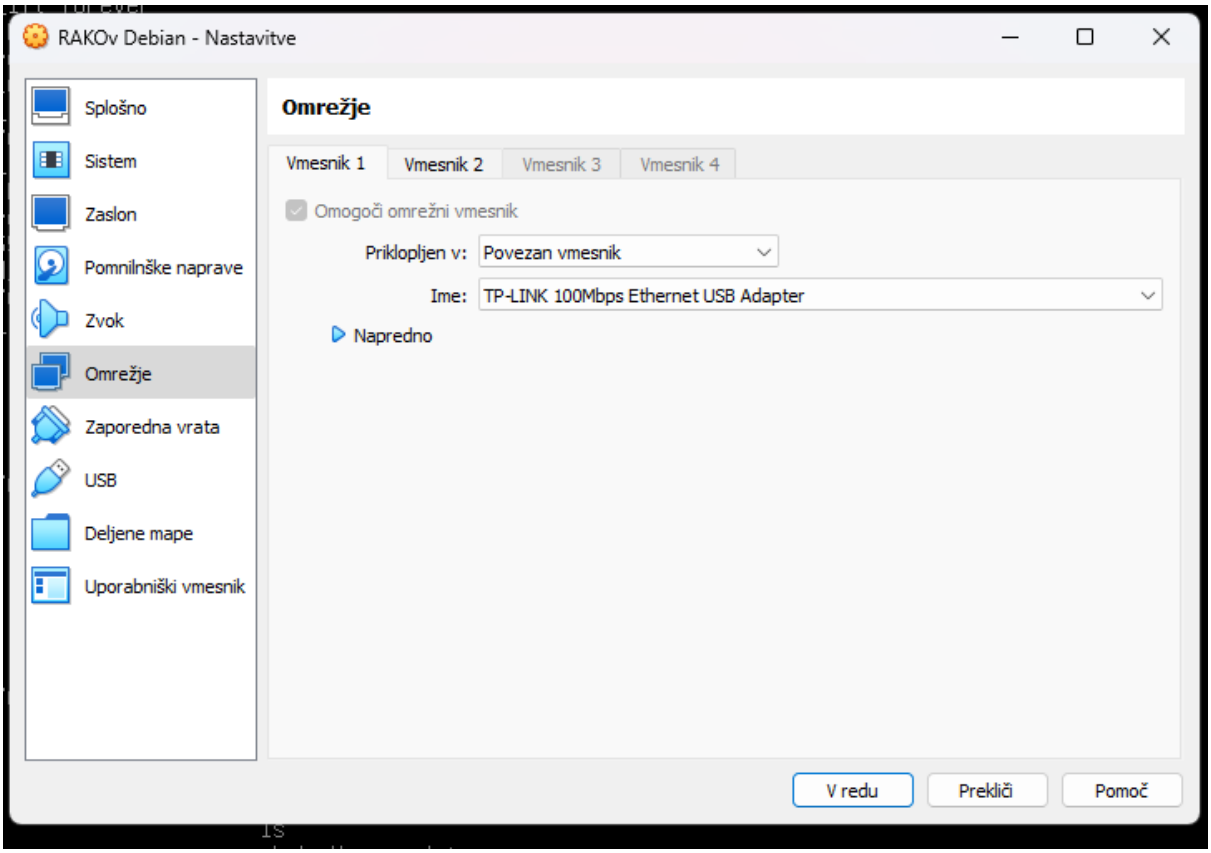
Geslo: varnogeslo

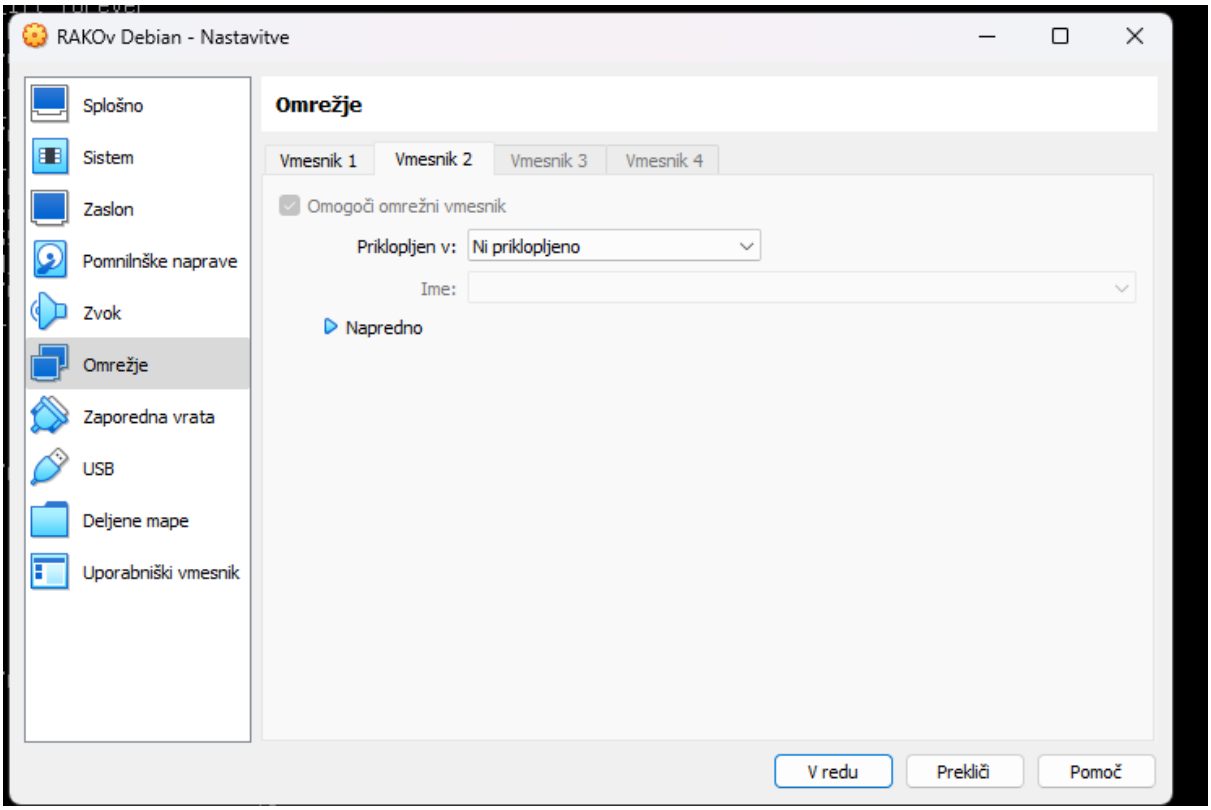


Povežemo se gor s telefonom

V virtualki debian:



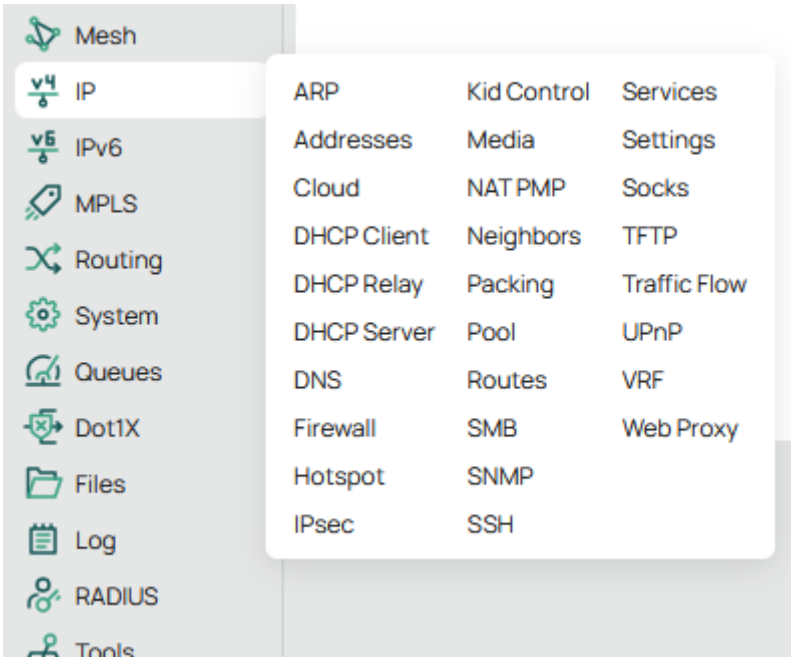



RAKOv Debian - Nastavitve
Splošno
Sistem
Zaslon
Pomnilnške naprave
Zvok
Omrežje
Zaporedna vrata
USB
Deljene mape
Uporabniški vmesnik
Omrežje
Vmesnik 1
Vmesnik 2
Vmesnik 3
Vmesnik 4
Omogoči omrežni vmesnik
Priklopljen v:
Ni priklopljeno
Ime:
Napredno
V redu
Prekliči
Pomoč

Nano /etc/network/interfaces

```
  GNU nano 7.2
# This file describes the network interfaces available on
# and how to activate them. For more information, see inte

source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
allow-hotplug enp0s8
iface enp0s8 inet dhcp

auto enp0s3

iface enp0s3 inet static
        address 192.168.1.10/24
        gateway 192.168.1.1
        dns-nameservers 100.64.0.126
```

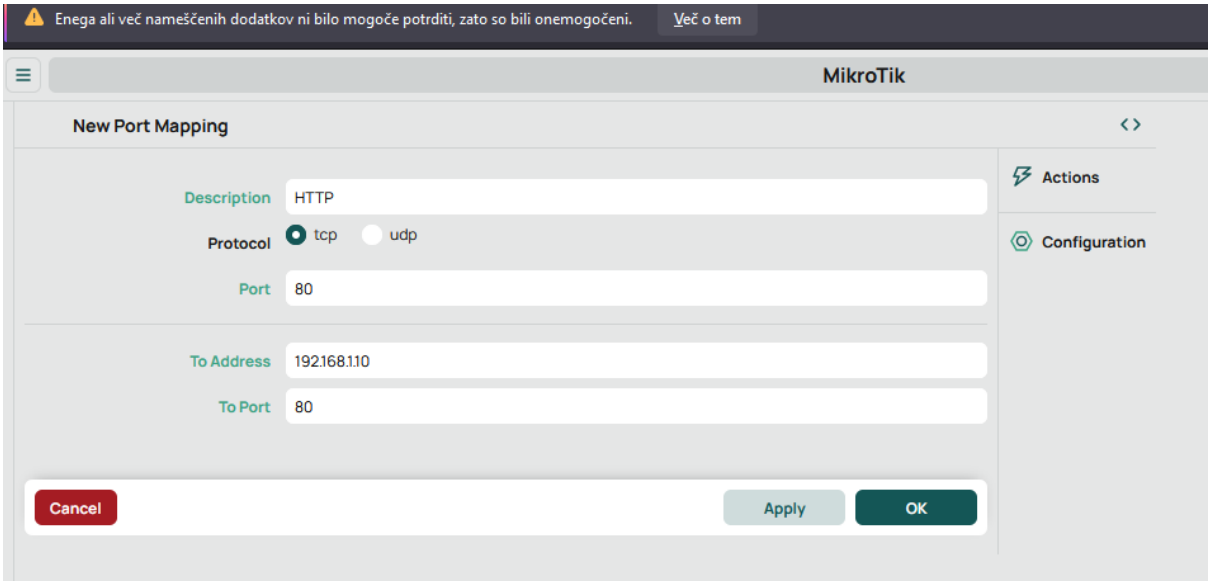
sudo reboot



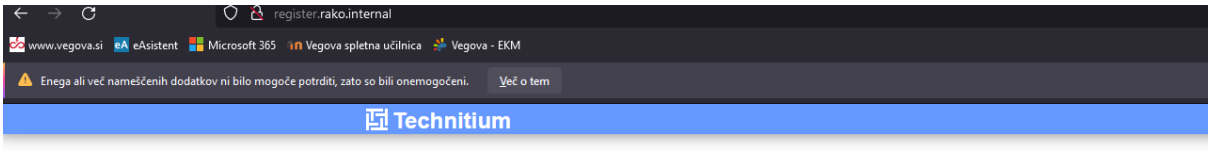
dns – flush cache

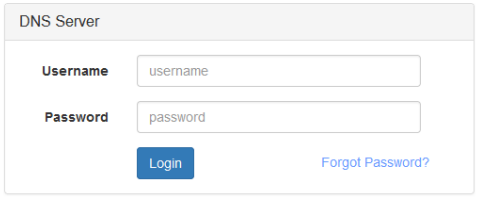
BROWSER

port mapping -> new



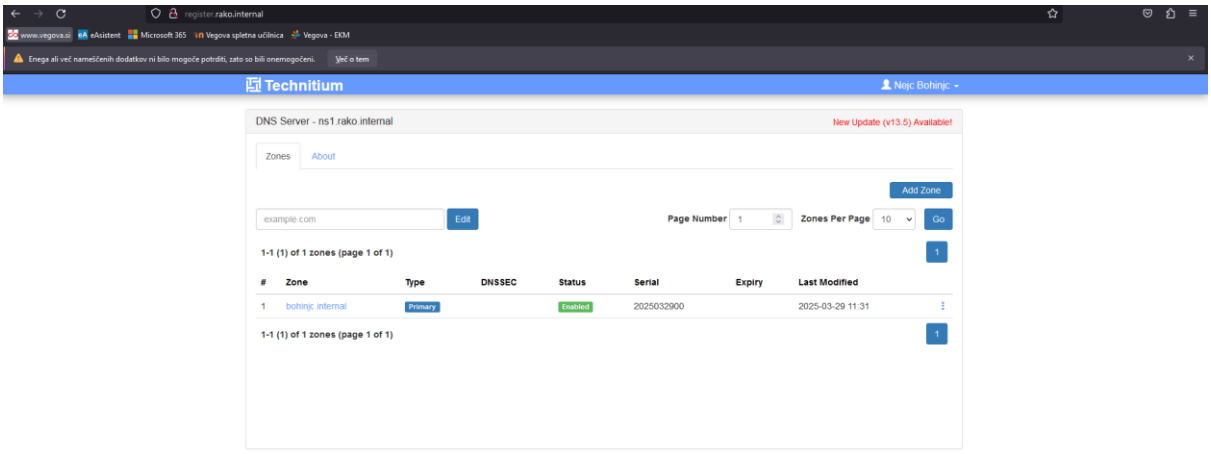
testiramo tako da v browser vpišemo static ip soseda. Če naloži stran s krompirjem, je ok.





nejc.bohinjc

20081111

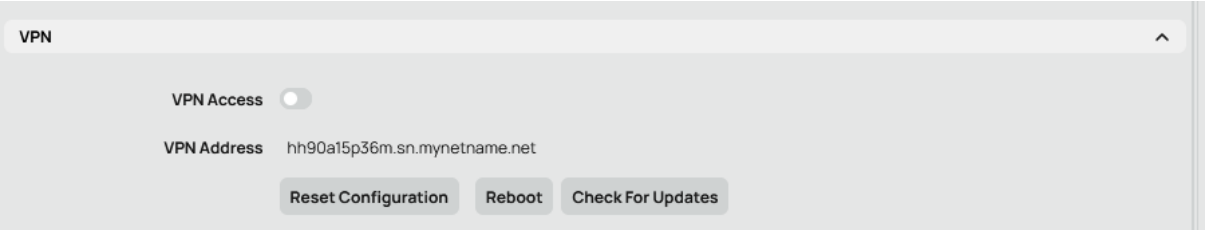


add record

name: nejc

cname

ttl 3600



Reset config

Postavljanje strani brez domene, povezovanje omrežja