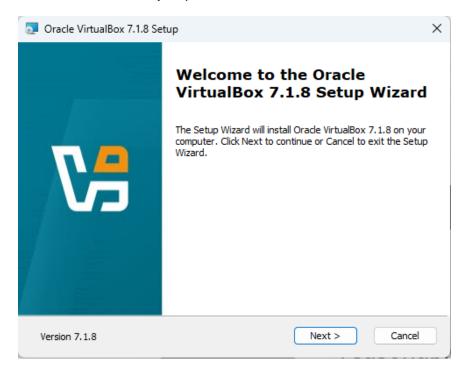
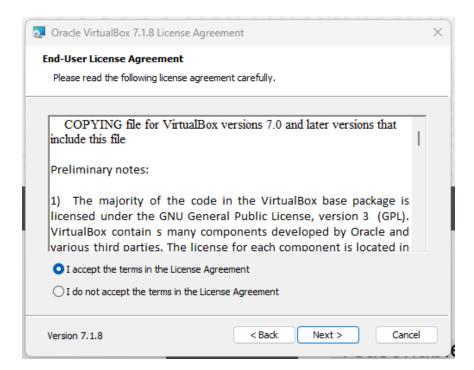
Vježba 4 – Rad na virtualnom stroju (Bojan Alikavazović)

Instalacija VirtualBox rješenja

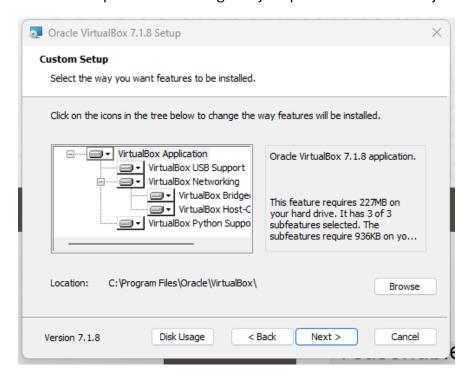
Pokrećemo instalacijski paket za Virtual Box.



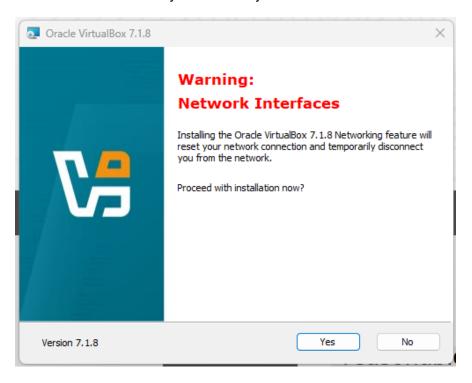
Prihvaćamo licencu.



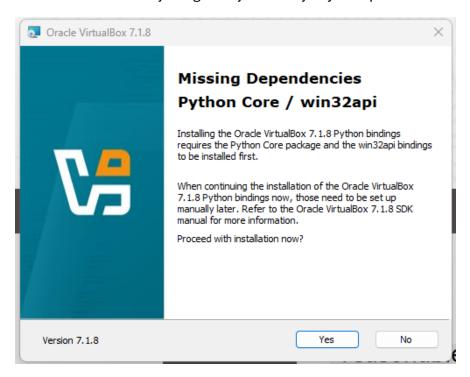
Prihvaćamo predložene konfiguracijske postavke za instalacijske komponente.



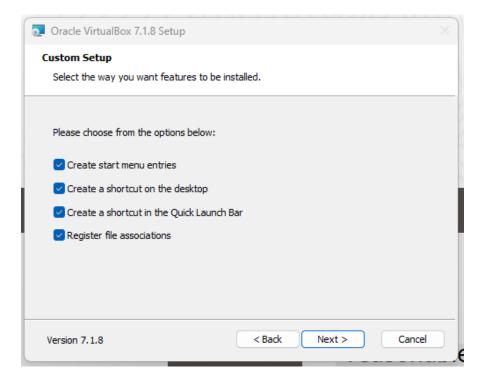
Prihvaćamo upozorenje vezano za promjene na mrežnom sučelju operacijskog sustava na kojeg instaliramo virtualizacijsko okruženje.



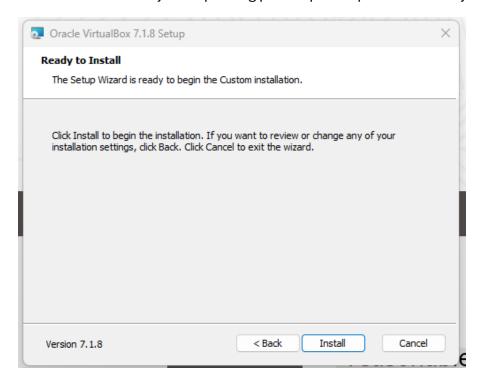
Prihvaćamo instalaciju odgovarajuće verzije Python paketa.



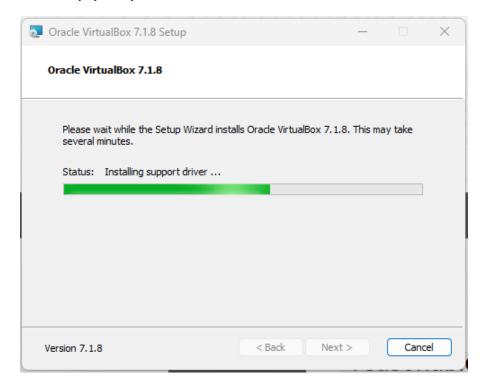
Postavljmo dodatne konfiguracijske postavke na operacijski sustav Windows za kraticu na desktop-u i u traci za pokretanje (Quick Launch Bar).



Pokrećemo instalaciju kompeltnog paketa prema postavkama koje su definirane u čarobnjaku.

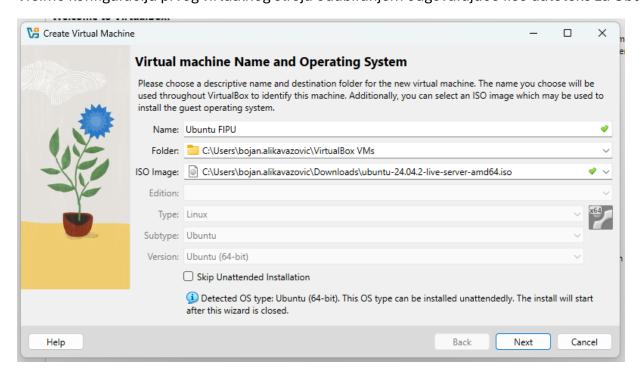


Instalacija je u tijeku.

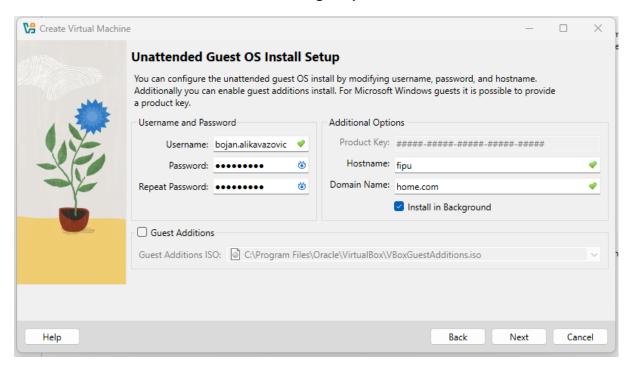


Konfiguracija i instalacija virualnog stroja

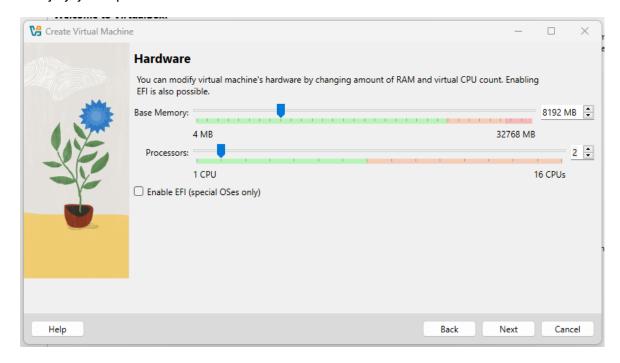
Vršimo konfiguraciju prvog virtualnog stroja odabiranjem odgovarajuće .iso datoteke za Ubuntu server.



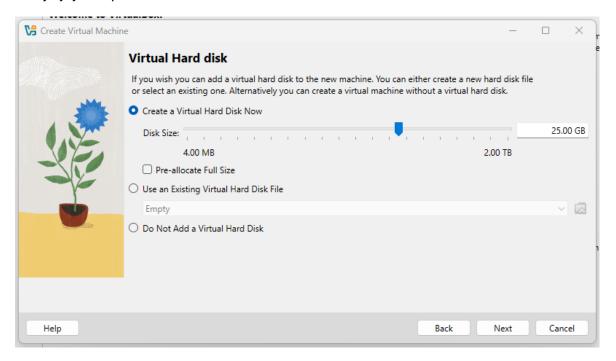
Podešavamo korisničko ime i naziv virtualnog stroja.



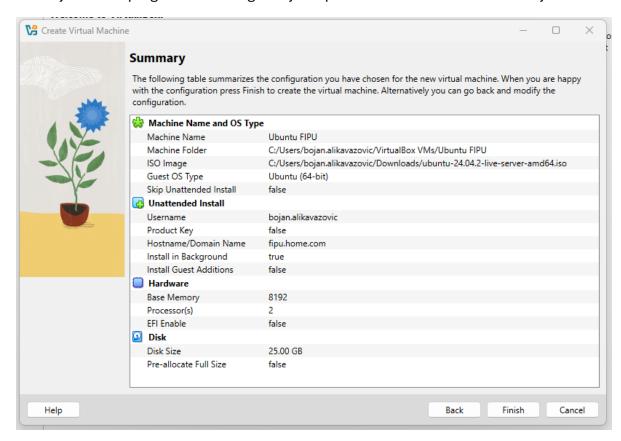
Dodjeljujemo potrebne resurse za CPU i RAM.



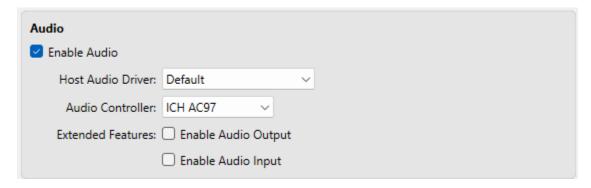
Dodjeljujemo potrebne resurse za disk.



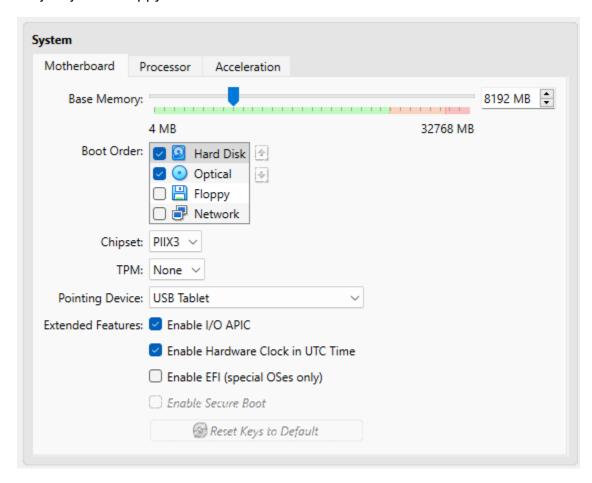
Na kraju imamo pregled svih konfiguracijskih parametara za virtualizirani stroj.



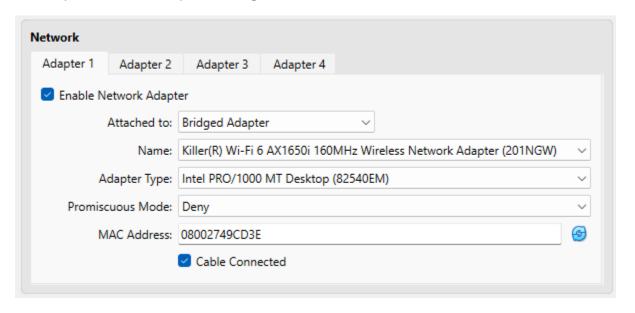
Dodatno vršimo konfiguraciju zvučne kartice. Isključujemo ju obzirom da neće biti potrebna za rad.



Isključujemo i Floppy disk.



Postavljamo mrežni adapter u Bridged mode.



Rad u virtualnom stroju.

Vršimo provjeru korisničkog imena i naziva virtualnog stroja sa naredbama:

whoami

hostname

```
bojan.alikavazovic@fipu:~$ whoami
bojan.alikavazovic
bojan.alikavazovic@fipu:~$ hostname
fipu
bojan.alikavazovic@fipu:~$ _
```

Pregledavamo konfiguraciju IP adrese na adapteru enp0s3, vidljivo je da nema IP adrese jer u LAN mreži nemam aktiviran DHCP servis.

ip a

```
root@fipu:/home/bojan.alikavazovic# 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
    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 08:00:27:49:cd:3e brd ff:ff:ff:ff:
        inet6 fe80::a00:27ff:fe49:cd3e/64 scope link
        valid_lft forever preferred_lft forever
root@fipu:/home/bojan.alikavazovic# _
```

Ručno sam postavio IP adresu u odgovarajuću konfiguracijsku datoteku na putanji /etc/netplan/.

```
root@fipu:/etc/netplan# more 50-cloud-init.yaml
network:
  version: 2
 renderer: networkd
  ethernets:
    enp0s3:
      dhcp4: no
      addresses:
        - 192.168.10.23/24
     routes:
        - to: 0.0.0.0/0
          via: 192.168.10.1
      nameservers:
        addresses:
          - 8.8.8.8
          - 8.8.4.4
root@fipu:/etc/netplan#
```

Primijenio sam na adapter novu konfiguraciju sa naredbom:

netplan apply

Dodatno sam provjerio spoj virtualnog stroja sa internetom sa naredbom

ping 4.2.2.2 -c 5

```
root@fipu:/etc/netplan# ping 4.2.2.2 -c 5
PING 4.2.2.2 (4.2.2.2) 56(84) bytes of data.
64 bytes from 4.2.2.2: icmp_seq=1 ttl=51 time=26.7 ms
64 bytes from 4.2.2.2: icmp_seq=2 ttl=51 time=27.8 ms
64 bytes from 4.2.2.2: icmp_seq=3 ttl=51 time=25.8 ms
64 bytes from 4.2.2.2: icmp_seq=4 ttl=51 time=26.2 ms
64 bytes from 4.2.2.2: icmp_seq=5 ttl=51 time=26.5 ms
--- 4.2.2.2 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4008ms
rtt min/avg/max/mdev = 25.801/26.589/27.789/0.673 ms
```

Provjerio sam i ispravnost DNS servisa sa naredbom:

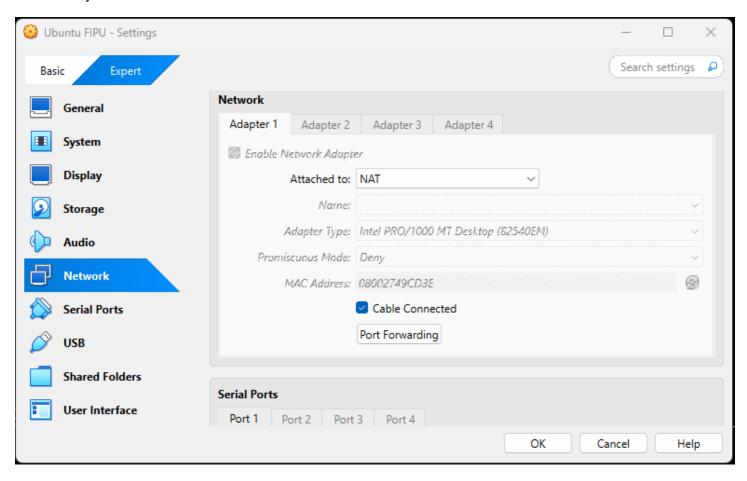
ping unipu.hr

```
root@fipu:/etc/netplan# ping unipu.hr
PING unipu.hr (31.147.206.15) 56(84) bytes of data.
64 bytes from pellicus2.unipu.hr (31.147.206.15): icmp_seq=1 ttl=242 time=15.3 ms
64 bytes from pellicus2.unipu.hr (31.147.206.15): icmp_seq=2 ttl=242 time=33.1 ms
64 bytes from pellicus2.unipu.hr (31.147.206.15): icmp_seq=3 ttl=242 time=15.0 ms
64 bytes from pellicus2.unipu.hr (31.147.206.15): icmp_seq=4 ttl=242 time=14.9 ms
^C
--- unipu.hr ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3010ms
rtt min/avg/max/mdev = 14.872/19.565/33.135/7.835 ms
```

Virtualni stroj ima uredan pristup internetu.

NAT podešavanje

Podešena je mrežna kartica da radi u NAT modu.



Obzirom da VirtualBox sam kreira novi LAN subnet i u njemu aktivira DHCP servis, konfigurirao sam mrežnu karticu tako da automatski preuzima IP adresu od DHCP servisa.

```
root@fipu:/etc/netplan# more 50-cloud-init.yaml
network:
   version: 2
   renderer: networkd
   ethernets:
      enp0s3:
      dhcp4: true
root@fipu:/etc/netplan# _
```

netplan apply

Provjerio sam IP adresu sa naredbom

ip a

Vidljivo je da je virtualni stroj dobio IP adresu od DHCP-a.

Za pristup SSH servisu konfigurirao sam odgovarajuću Port Forwarding konfiguraciju na mrežnom adapteru u Virtual Box-u.



Osvježavanje liste novih nadogradnji sam odradio sa naredbom:

apt update

```
root@fipu:/etc/netplan# apt update
Get:1 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Hit:2 http://hr.archive.ubuntu.com/ubuntu noble InRelease
Get:3 http://hr.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:4 http://hr.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:5 http://hr.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1,090 kB]
Get:6 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [21.6 kB]
Get:7 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:8 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.2 kB]
Get:9 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 B]
Get:10 http://hr.archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [161 kB]
Get:11 http://hr.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]
Get:12 http://hr.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1,062 kB]
Get:13 http://hr.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [376 kB]
Get:14 http://hr.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]
Get:15 http://hr.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [7,068 B]
Get:16 http://hr.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]
Get:17 http://hr.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [16.4 kB]
Get:18 http://hr.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Fetched 3,167 kB in 2s (1,765 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
64 packages can be upgraded. Run 'apt list --upgradable' to see them.
```

Zatim nadogradnju svega sa

apt upgrade

```
Unpacking townpack .../46-pollinate_4.33-3.iubuntui.1_all.deb ...
Unpacking pollinate (4.33-3.iubuntui.1) over (4.33-3.iubuntui.1) ...
Preparing to unpack .../46-pollinate_4.33-3.iubuntui.1] over (4.33-3.iubuntui.1)
Unpacking pollinate (4.33-3.iubuntui.1) over (4.33-3.iubuntui.1)
Preparing to unpack .../47-software-properties common (0.99.49.2) over (0.99.49.1) ...
Preparing to unpack .../48-puthons.software-properties_0.99.49.2.all.deb ...
Unpacking software-properties (0.99.49.2) over (0.99.49.1) ...
Preparing to unpack .../49-snapd_2.67.1/24.40.44 and64.deb ...
Unpacking snapd (2.67.1/24.40) over (2.66.1/24.04) ...
Preparing to unpack .../59-sosreport_4.8.2-ebuntui0~24.04.1 over (4.7.2-ebuntui1~24.04.2) ...
Preparing to unpack .../51-clud-init_24.4.1-ebuntui0~24.04.2 ...
Preparing to unpack .../51-clud-init_24.4.1-ebuntui0~24.04.3 all.deb ...
Unpacking sosreport (4.8.2-ebuntui0~24.04.3) over (24.4-ebuntui1~24.04.2) ...
Petting up libapparmori-sma64 (4.6.1-really4.0-1-ebuntue0.24.04.4) ...
Setting up pci. ids (0.0~2024.83.31-ubuntue0.1) ...
Setting up pilnux-base (4.5buntua) -...
Setting up pilnux-base (4.5buntua) -...
Setting up udstro-info-data (0.6buntue.3) ...
Setting up librupu2.3-abuntus.1) ...
Installing new yersion of config file /etc/apparmor_d/usr.sbin.rsyslogd ...
Info: The user Syslog' is already a member of 'adm'
Setting up libpackagett, glib2-listand64 (1.2.2-buntutu.2) ...
Setting up libpackagett, glib2-listand64 (
```

Zatim instalaciju SSH servisa.

apt install openssh-server

```
Preconfiguring packages ...
Selecting previously unselected package openssh-sftp-server.
(Reading database ... 83940 files and directories currently installed.)
Preparing to unpack .../openssh-sftp-server_1%3a9.6p1-3ubuntu13.11_amd64.deb ...
Unpacking openssh-sftp-server (1:9.6p1-3ubuntu13.11) ...
Selecting previously unselected package libwrap0:amd64.
Preparing to unpack .../libwrap0_7.6.q-33_amd64.deb ...
Unpacking libwrap0:amd64 (7.6.q-33) ...
Selecting previously unselected package openssh-server.
Preparing to unpack .../openssh-server_1%3a9.6p1-3ubuntu13.11_amd64.deb ...
Unpacking openssh-server (1:9.6p1-3ubuntu13.11) ...
Selecting previously unselected package ncurses-term.
Preparing to unpack .../ncurses-term_6.4+20240113-1ubuntu2_all.deb ...
Unpacking ncurses-term (6.4+20240113-1ubuntu2) ...
Selecting previously unselected package ssh-import-id.
Preparing to unpack .../ssh-import-id_5.11-0ubuntu2.24.04.1_all.deb ...
Unpacking ssh-import-id (5.11-0ubuntu2.24.04.1) ...
Setting up openssh-sftp-server (1:9.6p1-3ubuntu13.11) ...
Setting up ssh-import-id (5.11-0ubuntu2.24.04.1) ...
Setting up libwrap0:amd64 (7.6.q-33) ...
Setting up nourses-term (6.4+20240113-1ubuntu2) ...
Setting up openssh-server (1:9.6p1-3ubuntu13.11) ...
Creating config file /etc/ssh/sshd_config with new version
Created symlink /etc/systemd/system/sockets.target.wants/ssh.socket → /usr/lib/systemd/system/ssh.socket.
Created symlink /etc/systemd/system/ssh.service.requires/ssh.socket → /usr/lib/systemd/system/ssh.socket.
Processing triggers for ufw (0.36.2-6) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.4) ...
Scanning processes...
Scanning candidates...
Scanning linux images...
```

Sa sljedećim setom naredbi sam provjerio i aktivirao SSH servis.

systemctl status ssh

systemctl start ssh

systemctl status ssh

```
oot@fipu:/etc/netplan# systemctl status ssh
 ssh.service - OpenBSD Secure Shell server
    Loaded: loaded (/usr/lib/systemd/system/ssh.service; disabled; preset: enabled)
    Active: inactive (dead)
TriggeredBy: • ssh.socket
      Docs: man:sshd(8)
             man:sshd_config(5)
root@fipu:/etc/netplan# systemctl start ssh
oot@fipu:/etc/netplan# systemctl status ssh
 ssh.service - OpenBSD Secure Shell server
    Loaded: loaded (/usr/lib/systemd/system/ssh.service; disabled; preset: enabled)
    Active: active (running) since Sun 2025-05-18 15:00:15 UTC; 1s ago
TriggeredBy: • ssh.socket
      Docs: man:sshd(8)
             man:sshd_config(5)
   Process: 15922 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
   Main PID: 15923 (sshd)
     Tasks: 1 (limit: 9441)
    Memory: 1.2M (peak: 1.3M)
       CPU: 17ms
    CGroup: /system.slice/ssh.service
              -15923 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"
May 18 15:00:15 fipu systemd[1]: Starting ssh.service - OpenBSD Secure Shell server...
May 18 15:00:15 fipu sshd[15923]: Server listening on :: port 22.
May 18 15:00:15 fipu systemd[1]: Started ssh.service - OpenBSD Secure Shell server.
```

Vratio sam se u bridge mode i s njim odradio isto tako spajanje na SSH servis. Provera IP adrese.

ip a

```
root@fipu:/etc/netplan# 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
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 08:00:27:49:cd:3e brd ff:ff:ff:ff:
inet 192.168.10.23/24 brd 192.168.10.255 scope global enp0s3
    valid_lft forever preferred_lft forever
inet6 fe80::a00:27ff:fe49:cd3e/64 scope link
    valid_lft forever preferred_lft forever
```

Provjera servisa koji radi na SSH portu 22 (vidi se i port i naziv servisa, dodatni flag -n)

ss -tul

root@fipu:/etc/netplan# ss -tul							
Netid	State	Recv-Q	Send-Q	Local Address:Port			
udp	UNCONN	0	0	127.0.0.54:domain			
udp	UNCONN	0	0	127.0.0.53%lo:domain			
tcp	LISTEN	0	4096	127.0.0.53%lo:domain			
tcp	LISTEN	0	4096	127.0.0.54:domain			
tcp	LISTEN	0	4096	*:ssh			

ss -tuln

root@fipu:/etc/netplan# ss -tuln							
Netid	State	Recv-Q	Send-Q	Local Address:Port			
udp	UNCONN	0	0	127.0.0.54:53			
udp	UNCONN	0	0	127.0.0.53%lo:53			
tcp	LISTEN	0	4096	127.0.0.53%lo:53			
tcp	LISTEN	0	4096	127.0.0.54:53			
tcp	LISTEN	0	4096	*:22			

Sa Window stroja sam pristupio na virtualni putem SSH servisa. Ovo je IP adresa Windowsa.

ifconfig

```
Microsoft Windows [Version 10.0.22631.5189]
(c) Microsoft Corporation. All rights reserved.

C:\Users\bojan.alikavazovic>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

Connection-specific DNS Suffix .:
Link-local IPv6 Address . . . . : fe80::7035:cc5b:4943:9b6a%4
IPv4 Address. . . . . . . : 192.168.10.22
Subnet Mask . . . . . . . : 255.255.255.0
Default Gateway . . . . : 192.168.10.1
```

Spojio sam se na virtualku i sa netstat aplikacijom provjerio ispravnost SSH usapostavljene veze, vidi se ESTABLISHED.

Screenshot terminala domaćina (SSH klijenta)

```
🖭 root@fipu: /home/bojan.alika 🗡
root@fipu:/home/bojan.alikavazovic# netstat -antpu
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address
                                            Foreign Address
                                                                     State
                                                                                 PID/Program name
                                            0.0.0.0:*
                                                                                 5286/systemd-resolv
tcp
          0
                 0 127.0.0.53:53
                                                                     LISTEN
          0
                 0 127.0.0.54:53
                                            0.0.0.0:*
                                                                                 5286/systemd-resolv
tcp
                                                                    LISTEN
          0
                 0 :::22
                                                                     LISTEN
                                                                                 1/systemd
tcp6
                  0 192.168.10.23:22
                                            192.168.10.22:62214
                                                                     ESTABLISHED 16115/sshd: bojan.a
tcp6
           0
                  0 127.0.0.54:53
                                            0.0.0.0:*
                                                                                 5286/systemd-resolv
udp
           0
           0
                  0 127.0.0.53:53
                                            0.0.0.0:*
                                                                                 5286/systemd-resolv
udp
root@fipu:/home/bojan.alikavazovic#
```

Izradio sam odgovarajuću skriptu na virutalnom stroju kroz SSH.

chmod +x skripta.sh

more skripta.sh

./skripta.sh

```
root@fipu: /home/bojan.alika 🛛 📉
root@fipu:/home/bojan.alikavazovic# chmod +x skripta.sh
root@fipu:/home/bojan.alikavazovic# more skripta.sh
#!/bin/sh
ls -la /
root@fipu:/home/bojan.alikavazovic# ./skripta.sh
total 88
drwxr-xr-x
            23 root root
                          4096 May 16 04:16 .
drwxr-xr-x 23 root root
                          4096 May 16 04:16 ...
lrwxrwxrwx
            1 root root
                             7 Apr 22
                                       2024 bin -> usr/bin
drwxr-xr-x
             2 root root
                         4096 Feb 26
                                       2024 bin.usr-is-merged
            3 root root
                         4096 May 18 14:57 boot
drwxr-xr-x
                        4096 May 16 04:16 cdrom
dr-xr-xr-x
             2 root root
drwxr-xr-x 19 root root
                        4040 May 18 14:33 dev
                          4096 May 18 14:58 etc
drwxr-xr-x 108 root root
drwxr-xr-x
            3 root root
                         4096 May 16 04:21 home
1rwxrwxrwx
            1 root root
                                       2024 lib -> usr/lib
                             7 Apr 22
                                       2024 lib64 -> usr/lib64
lrwxrwxrwx
             1 root root
                             9 Apr 22
                                      2024 lib.usr-is-merged
drwxr-xr-x
            2 root root
                          4096 Feb 26
drwx-----
             2 root root 16384 May 16 04:17 lost+found
drwxr-xr-x
             2 root root 4096 Feb 16 20:51 media
             2 root root
                         4096 Feb 16 20:51 mnt
drwxr-xr-x
             2 root root
                          4096 Feb 16 20:51 opt
drwxr-xr-x
                             0 May 18 14:33 proc
dr-xr-xr-x 187 root root
                          4096 May 18 15:00 root
drwx-----
            4 root root
drwxr-xr-x
            30 root root
                           920 May 18 15:07 run
                                       2024 sbin -> usr/sbin
lrwxrwxrwx
            1 root root
                             8 Apr 22
                                       2024 sbin.usr-is-merged
drwxr-xr-x
             2 root root
                          4096 Aug 22
drwxr-xr-x
            2 root root
                         4096 May 16 04:21 snap
                        4096 Feb 16 20:51 srv
drwxr-xr-x
            2 root root
dr-xr-xr-x 13 root root
                             0 May 18 15:10 sys
drwxrwxrwt 14 root root
                          4096 May 18 15:06 tmp
drwxr-xr-x 12 root root 4096 Feb 16 20:51 usr
drwxr-xr-x 13 root root 4096 May 16 04:21 var
root@fipu:/home/bojan.alikavazovic#
```

Provjerio sam isto i kroz konzolu virtualke.

more skripta.sh

./skripta.sh

```
Ubuntu FIPU [Running] - Oracle VirtualBox
    Machine View
                 Input Devices Help
                  0 _localdnsstub:domain
qbu
                                             0.0.0.0:*
root@fipu:/etc/netplan# ss -tul
Netid State F
                                Recv-Q
                                                  Send-Q
udp
               UNCONN
                                0
                                                  0
                                                  ø
udp
               UNCONN
                                ø
tcp
                                                  4096
               LISTEN
                                ø
                                                  4096
tcp
               LISTEN
                                û
                                                  4096
tcp
               LISTEN
root@fipu:/etc/netplan# ss -tuln
Netid
                State
                                  Recv-Q
                                                    Send-Q
abu
                UNCONN
udp
                UNCONN
                                                    ø
tcp
                LISTEN
                                                    4096
tcp
                                                    4096
                LISTEN
tcp
                LISTEN
                                  0
                                                    4096
root@fipu:/etc/netplan# cd /home/bojan.alikavazovic/
root@fipu:/home/bojan.alikavazovic# more skripta.sh
#!/bin/sh
root@fipu:/home/bojan.alikavazovic# ./skripta.sh
total 88
drwxr-xr-x
            23 root root
                          4096 May 16 04:16 .
drwxr-xr-x 23 root root
                          4096 May 16 04:16
lrwxrwxrwx
            1 root root
                             7 Apr 22
                                        2024 bin -> usr/bin
drwxr-xr-x
                          4096 Feb 26 2024 bin.usr-is-merged
             2 root root
drwxr-xr-x
             3 root root
                          4096 May 18 14:57 boot
                          4096 May 16 04:16 cdrom
dr-xr-xr-x
            2 root root
drwxr-xr-x
           19 root root
                          4040 May 18 14:33 dev
drwxr-xr-x 108 root root
                          4096 May 18 14:58 etc
drwxr-xr-x
                           4096 May 16 04:21 home
             3 root root
lrwxrwxrwx
             1 root root
                              7 Apr 22 2024 lib -> usr/lib
             1 root root
                              9 Apr 22
                                        2024 lib64 -> usr/lib64
lrwxrwxrwx
                           4096 Feb 26 2024 lib.usr-is-merged
drwxr-xr-x
             2 root root
drwx-----
             2 root root
                          16384 May 16 04:17 lost+found
drwxr-xr-x
             2 root root
                          4096 Feb 16 20:51 media
                           4096 Feb 16 20:51 mnt
drwxr-xr-x
             2 root root
drwxr-xr-x
             2 root root
                          4096 Feb 16 20:51 opt
dr-xr-xr-x 184 root root
                              0 May 18 14:33 proc
drwx-----
                           4096 May 18 15:00 root
            4 root root
drwxr-xr-x
            30 root root
                            920 May 18 15:07 run
                          8 Apr 22
4096 Aug 22
lrwxrwxrwx
             1 root root
                                        2024 sbin -> usr/sbin
drwxr-xr-x
             2 root root
                                        2024 sbin.usr-is-merged
drwxr-xr-x
             2 root root
                           4096 May 16 04:21 snap
drwxr-xr-x
            2 root root
                           4096 Feb 16 20:51 srv
dr-xr-xr-x
            13 root root
                              0 May 18 15:10 sys
                           4096 May 18 15:11 tmp
drwxrwxrwt
            13 root root
                          4096 Feb 16 20:51 usr
drwxr-xr-x
           12 root root
drwxr-xr-x
           13 root root
                          4096 May 16 04:21 var
root@fipu:/home/bojan.alikavazovic#
```