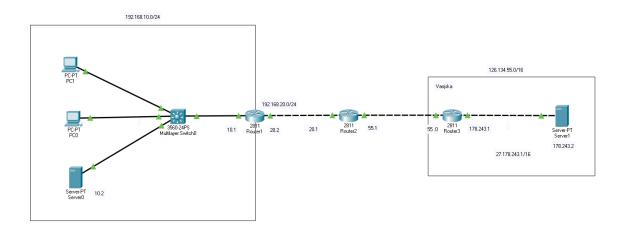
Arslan Turkušić, 1787/18173

Izvještaj iz Zadaće 4 Računarske mreže

Mrežna topologija:



Unutrašnju mrežu čine dvije podmreže: 192.168.10.0/24 i 192.168.20.0/24. Granični ruter (Router2) ima adresu 126.134.55.1, na njemu je implementiran i NAT. Vanjsku mrežu predstavljaju Router3 i server. Oni se nalaze u mreži 27.178.243.1/16.

NAT smo definisali na graničnom ruteru (Router2) te smo definisali unutrašnji i vanjski NAT interfejs. Navedeno je postignuto korištenjem komandi:

interface fastEthernet 0/0

ip nat inside

interface fastEthernet 0/1

ip nat outside

ip nat inside source list 1 interface fastEthernet 0/1 overload

access-list 1 permit any

Test za NAT, pingamo sa račinara PC1 na server u vanjskoj mreži:

```
IP: tableid=0, s=126.134.55.1 (FastEthernet0/0), d=27.178.243.2 (FastEthernet0/1), routed via RIB

IP: s=126.134.55.1 (FastEthernet0/0), d=27.178.243.2 (FastEthernet0/1), g=27.178.243.2, len 128, forward

IP: tableid=0, s=27.178.243.2 (FastEthernet0/1), d=126.134.55.1 (FastEthernet0/0), routed via RIB

IP: s=27.178.243.2 (FastEthernet0/1), d=126.134.55.1 (FastEthernet0/0), g=126.134.55.1, len 128, forward

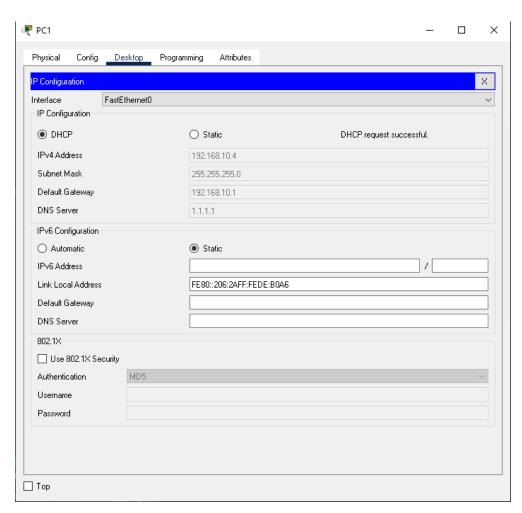
IP: tableid=0, s=126.134.55.1 (FastEthernet0/0), d=27.178.243.2 (FastEthernet0/1), routed via RIB

IP: s=126.134.55.1 (FastEthernet0/0), d=27.178.243.2 (FastEthernet0/1), g=27.178.243.2, len 128, forward

IP: tableid=0, s=27.178.243.2 (FastEthernet0/1), d=126.134.55.1 (FastEthernet0/0), routed via RIB

IP: s=27.178.243.2 (FastEthernet0/1), d=126.134.55.1 (FastEthernet0/0), g=126.134.55.1, len 128, forward
```

DHCP je uključen na graničnom ruteru.



Komande:

ip dhcp pool rmz4-pool

default-router 192.168.10.1

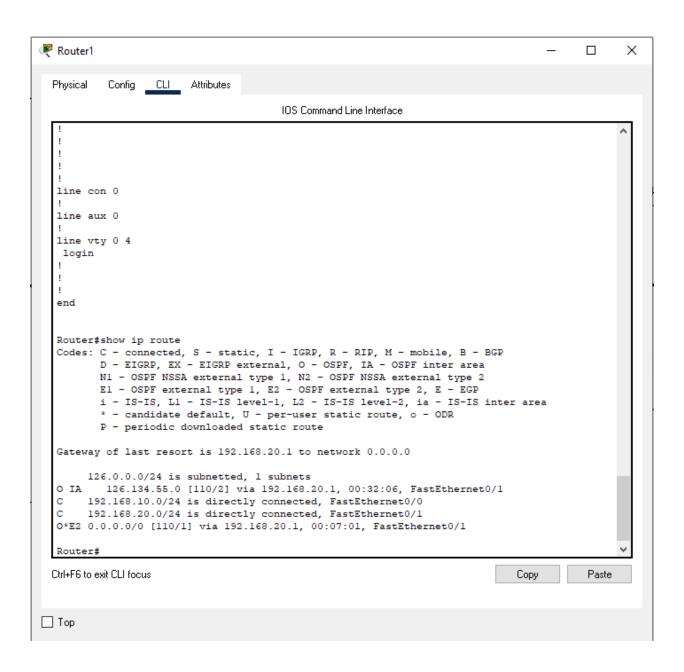
dns-server 1.1.1.1

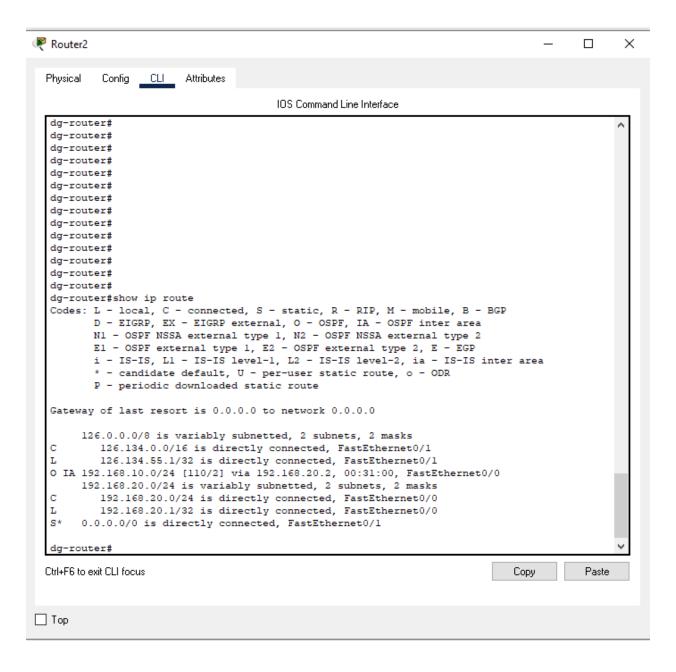
network 192.168.10.0 255.255.255.0

ip dhcp excluded-address 192.168.10.1 192.168.10.2

Unutrašnjem routeru smo dali informaciju, gdje se nalazi DHCP server, komandom ip helper-address.

Statičku rutu smo definisali komandom ip route 0.0.0.0 0.0.0.0 fastEthernet0/1, vidimo show ip route za rutere 1 i 2 na sljedećim slikama.





Access liste smo definisali na ruteru 1.

Za access liste smo koristili komande:

```
access-list 100 remark RMZ4-ACL
access-list 100 permit tcp host 192.168.10.3 host 27.178.243.2 eq 80
access-list 100 deny icmp host 192.168.10.3 host 27.178.243.2
access-list 100 deny tcp host 192.168.10.4 host 27.178.243.2 eq 80
access-list 100 permit icmp host 192.168.10.4 host 27.178.243.2
access-list 100 permit ip any any
interface fastEthernet 0/0
ip access-group 100 in
```

Njihov efekat vidimo na sljedećim slikama:

