

LV5-Konzolni pristup i temeljna konfiguracija usmjernika

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Priprema:

1. Unos informacija u usmjerničku tablicu kod statičkog usmjeravanja: Informacije o putanjama unose se ručno, specificirajući odredišnu IP adresu, masku pod mreže, i sljedeći skok (next-hop) ili izlazno sučelje.

2. Sintaksa za statičku rutu:

`ip route <odredišna_adresa> <maska_podmreže> <next-hop_adresa ili izlazno_sučelje>`

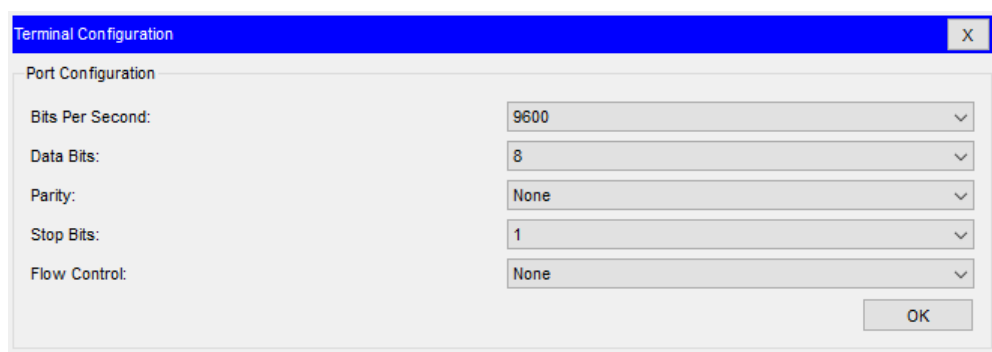
primjer:

`ip route 192.168.2.0 255.255.255.0 192.168.1.1`

Ovdje, paketi za mrežu 192.168.2.0 se šalju putem sljedećeg usmjernika s IP adresom 192.168.1.1.

Temeljna konfiguracija:

1.



2.

```
Router>enable
Router#erase startup-config
Erasing the nvram filesystem will remove all configuration files! Continue? [confirm]
[OK]
Erase of nvram: complete
%SYS-7-NV_BLOCK_INIT: Initialized the geometry of nvram
Router#reload
Proceed with reload? [confirm]
System Bootstrap, Version 12.3(8r)T8, RELEASE SOFTWARE (fc1)
Initializing memory for ECC
..
C1841 processor with 524288 Kbytes of main memory
Main memory is configured to 64 bit mode with ECC enabled

Readonly ROMMON initialized

Self decompressing the image :
##### [OK]
```

3.

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#exit
Router(config)#interface FastEthernet 0/0
Router(config-if)#hostname RB
```

4.

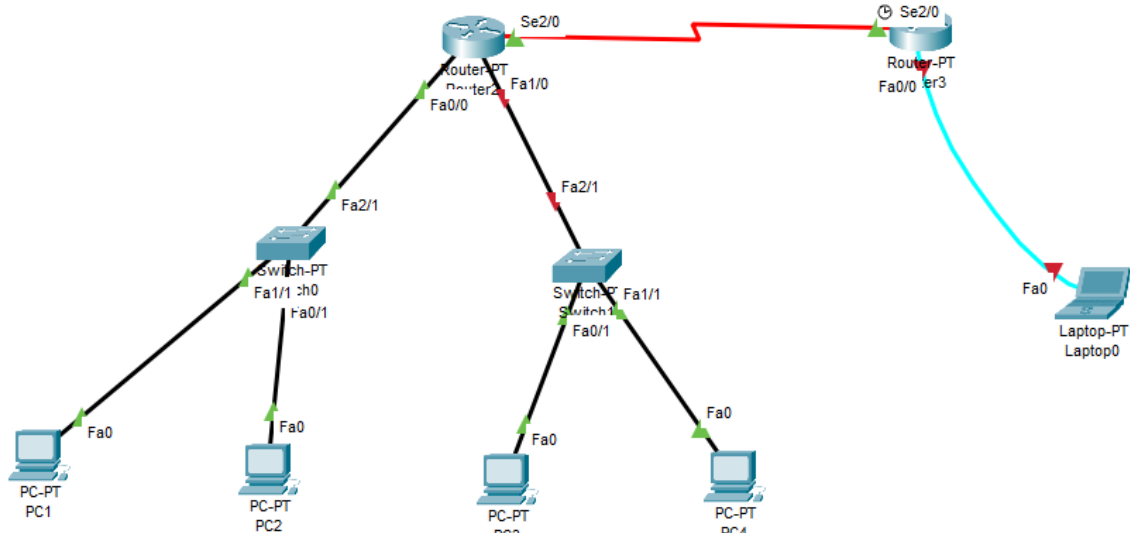
5.

```
RB#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
RB#show running-config
Building configuration...

Current configuration : 582 bytes
!
version 12.4
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname RB
!
!
!
!
!
!
!
ip cef
no ipv6 cef
!
!
```

Zadaci:

1. U PT-u spoji uređaje prema zadanoj topologiji i izvrši temeljnu konfiguraciju usmjernika, koristeći spojena računala kao terminale (rollover kabel). Na R2 također dodaj terminal radi konfiguracije.



2. Konfiguriraj sučelja na usmjerniku R1, koristeći priloženu tablicu adresa.

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fastethernet 0/0
Router(config-if)#ip address 192.168.20.193 255.255.255.192
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)#exit
Router(config)#interface serial 2/0
Router(config-if)#ip address 172.16.30.1 255.255.255.252
Router(config-if)#clock rate 64000
This command applies only to DCE interfaces
Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial2/0, changed state to down
Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
```

3. Konfiguriraj sučelje na usmjerniku R2, uz pomoć tablice adresa

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface serial 2/0
Router(config-if)#ip address 172.16.30.2 255.255.255.252
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
```

4. Pinganjem provjeri da li postoji povezanost između računala u jednoj i drugoj Ethernet mreži. Rezultate zapiši u bilježnicu.

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.20.195

Pinging 192.168.20.195 with 32 bytes of data:

Reply from 192.168.20.195: bytes=32 time<1ms TTL=128
Reply from 192.168.20.195: bytes=32 time<1ms TTL=128
Reply from 192.168.20.195: bytes=32 time<1ms TTL=128
Reply from 192.168.20.195: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.20.195:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```