

UNIVERZITET U BIHAĆU
TEHNIČKI FAKULTET
BIHAĆ

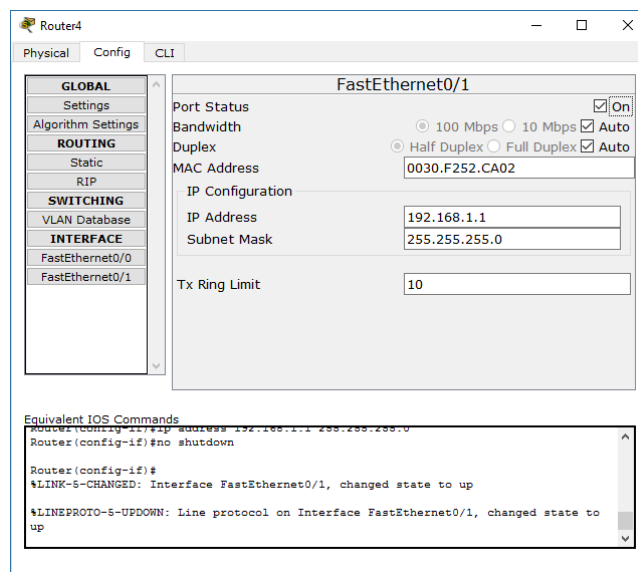
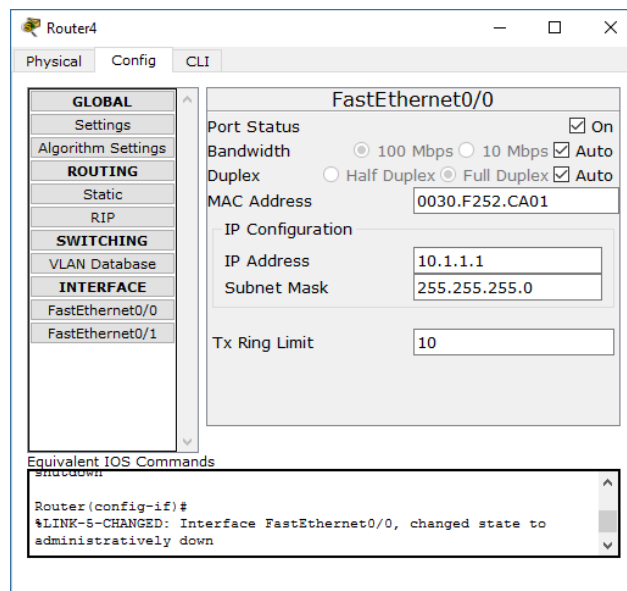
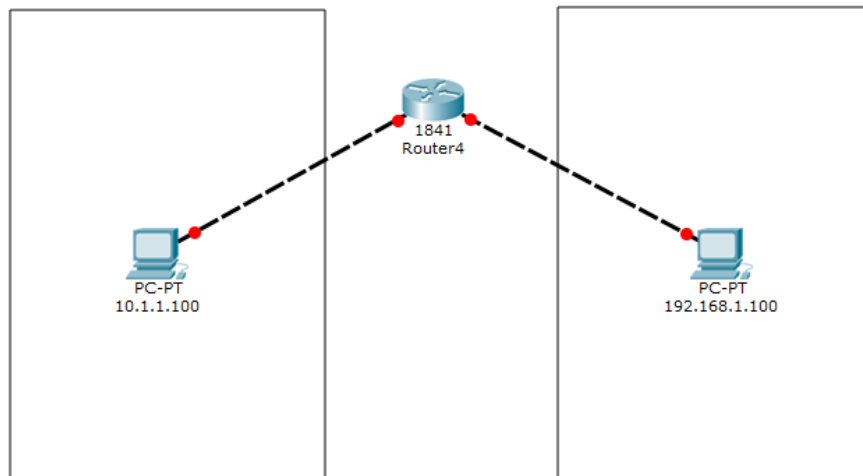
RAČUNARSKE MREŽE

Laboratorijske vježbe

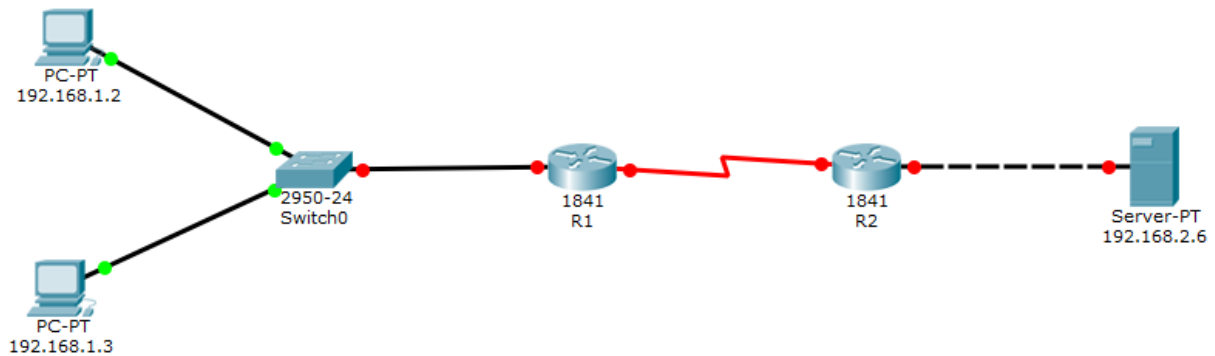
CISCO Packet Tracer
(Vježba 2)

mr. Amel Toroman, dipl. ing.el.
Viši asistent

PRIMJER 1: Konfiguriranje rutera



PRIMJER 2: Konfiguriranje statičke rute između dva rutera



Podešavanje za komunikaciju Switch – Router R1:

```
R1
Physical Config CLI
IOS Command Line Interface
Cisco IOS Software, 1841 Software (C1841-ADVIPSERVICESK9-M),
Version 12.4(15)T1, RELEASE SOFTWARE (fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2007 by Cisco Systems, Inc.
Compiled Wed 18-Jul-07 04:52 by pt_team

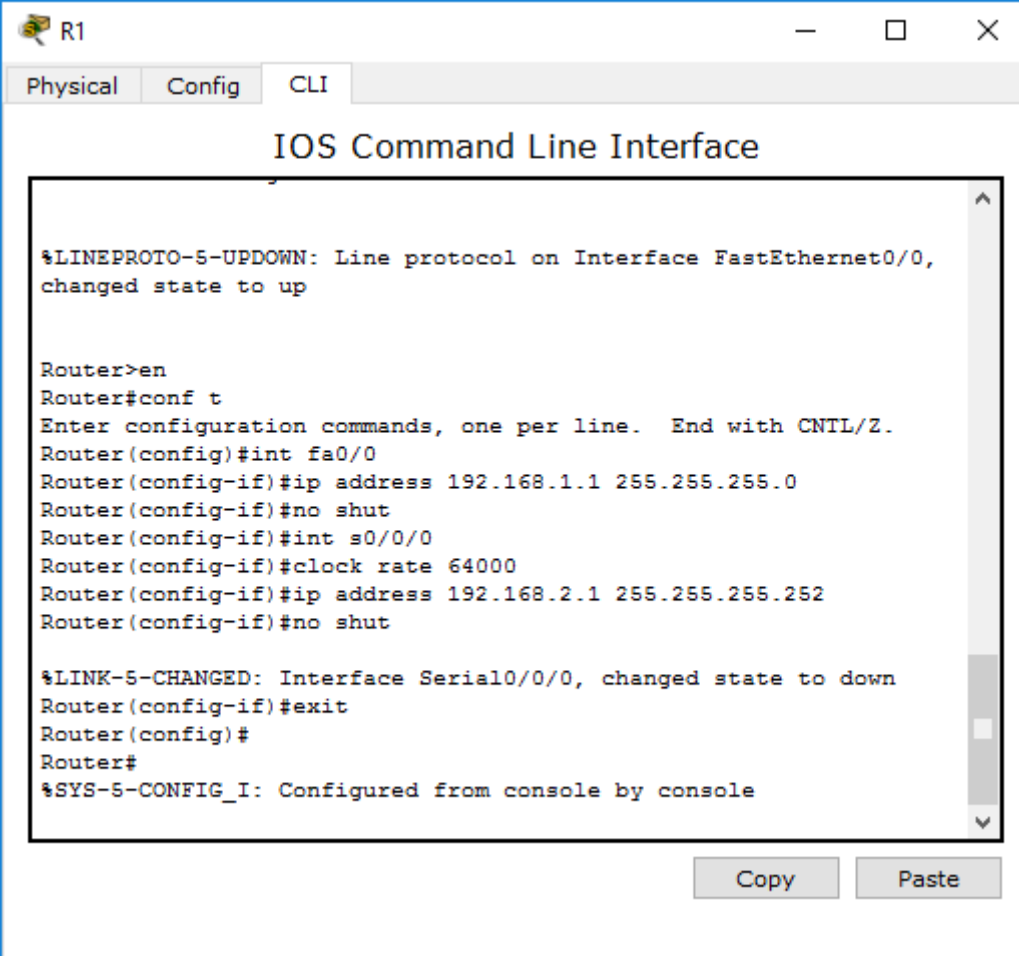
Press RETURN to get started!

Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa0/0
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#no shut

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
```

Podešavanje za komunikaciju Router R1 – Router R2:

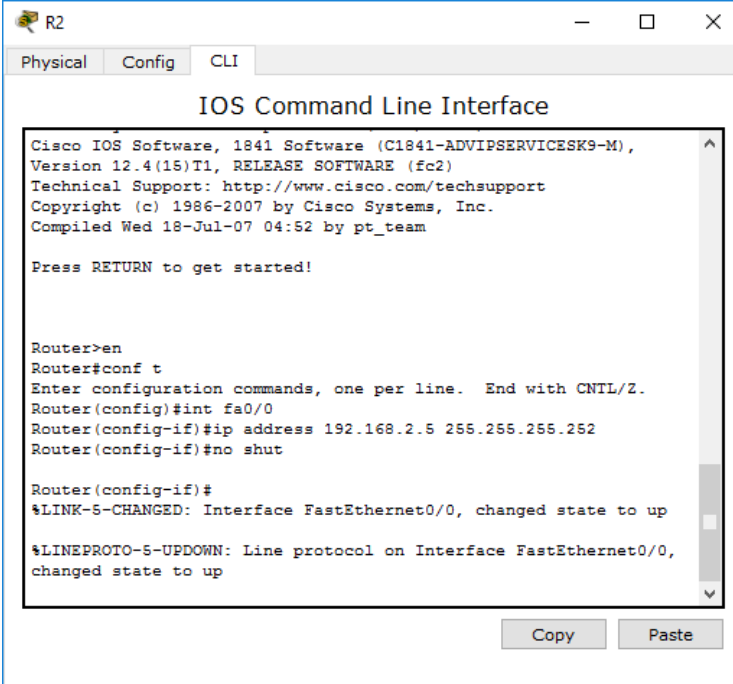


```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0,
changed state to up

Router>en
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int fa0/0
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#no shut
Router(config-if)#int s0/0/0
Router(config-if)#clock rate 64000
Router(config-if)#ip address 192.168.2.1 255.255.255.252
Router(config-if)#no shut

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to down
Router(config-if)#exit
Router(config)#
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

Podešavanje za komunikaciju Router R2 – Server:

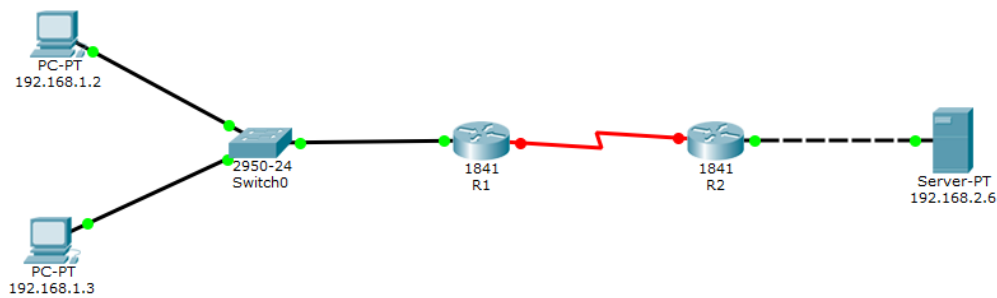


```
Cisco IOS Software, 1841 Software (C1841-ADVIPSERVICESK9-M),
Version 12.4(15)T1, RELEASE SOFTWARE (fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2007 by Cisco Systems, Inc.
Compiled Wed 18-Jul-07 04:52 by pt_team

Press RETURN to get started!

Router>en
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int fa0/0
Router(config-if)#ip address 192.168.2.5 255.255.255.252
Router(config-if)#no shut

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
```



Podešavanje za komunikaciju Router R2 – Router R1:

```

R2
Physical Config CLI
IOS Command Line Interface

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

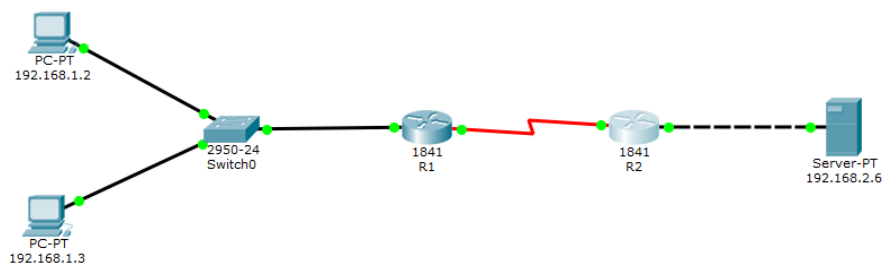
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa0/0
Router(config-if)#ip address 192.168.2.5 255.255.255.252
Router(config-if)#no shut
Router(config-if)#int s0/0/0
Router(config-if)#ip address 192.168.2.2 255.255.255.252
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0,
changed state to up

Router#
%SYS-5-CONFIG_I: Configured from console by console
Copy Paste

```



- Kliknemo na *Prvi računar*, odemo na *Desktop* tab, pa na *Command Prompt* i kucamo:
 - **ping 192.168.2.6**
 - Pojavit će nam se sljedeća poruka: **Destination host unreachable**

```

Command Prompt X

Packet Tracer PC Command Line 1.0
PC>ping 192.168.2.6

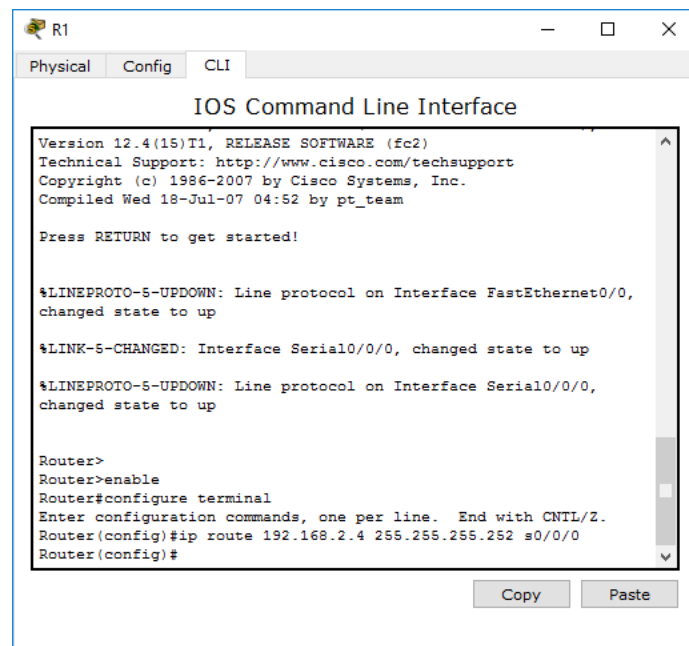
Pinging 192.168.2.6 with 32 bytes of data:

Reply from 192.168.1.1: Destination host unreachable.
Reply from 192.168.1.1: Destination host unreachable.
Reply from 192.168.1.1: Destination host unreachable.
Reply from 192.168.1.1: Destination host unreachable.

Ping statistics for 192.168.2.6:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
PC>

```

Ovo se događa zato što nismo postavili tablicu rutiranja rutera R1 i R2.



The screenshot shows the CLI of router R1. The interface title is "IOS Command Line Interface". The text in the terminal window is as follows:

```
Version 12.4(15)T1, RELEASE SOFTWARE (fc2)
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Copyright (c) 1986-2007 by Cisco Systems, Inc.
Compiled Wed 18-Jul-07 04:52 by pt_team

Press RETURN to get started!

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

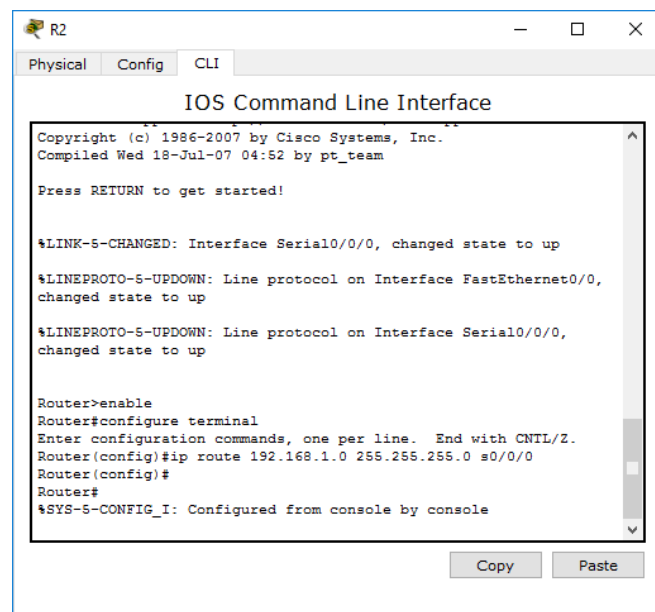
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0,
changed state to up

Router>
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 192.168.2.4 255.255.255.252 s0/0/0
Router(config)#
```

At the bottom of the window are "Copy" and "Paste" buttons.

Na isti način uradimo i sa *Drugim ruterom*, jer moramo dopustiti i drugom ruteru da on prihvaća podatke.



The screenshot shows the CLI of router R2. The interface title is "IOS Command Line Interface". The text in the terminal window is as follows:

```
Copyright (c) 1986-2007 by Cisco Systems, Inc.
Compiled Wed 18-Jul-07 04:52 by pt_team

Press RETURN to get started!

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

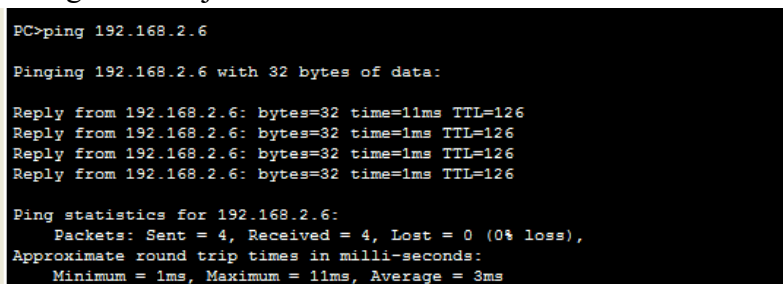
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0,
changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0,
changed state to up

Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 192.168.1.0 255.255.255.0 s0/0/0
Router(config)#
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

At the bottom of the window are "Copy" and "Paste" buttons.

Sad je uspješno konfigurirana cijela mreža.



The screenshot shows a command prompt window with the following text:

```
PC>ping 192.168.2.6

Pinging 192.168.2.6 with 32 bytes of data:

Reply from 192.168.2.6: bytes=32 time=11ms TTL=126
Reply from 192.168.2.6: bytes=32 time=1ms TTL=126
Reply from 192.168.2.6: bytes=32 time=1ms TTL=126
Reply from 192.168.2.6: bytes=32 time=1ms TTL=126

Ping statistics for 192.168.2.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 11ms, Average = 3ms
```