

**UNIVERZITET U BIHAĆU
TEHNIČKI FAKULTET
BIHAĆ**

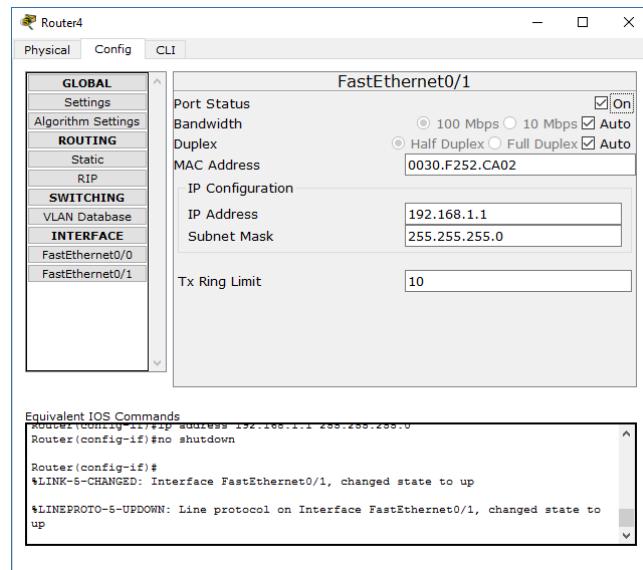
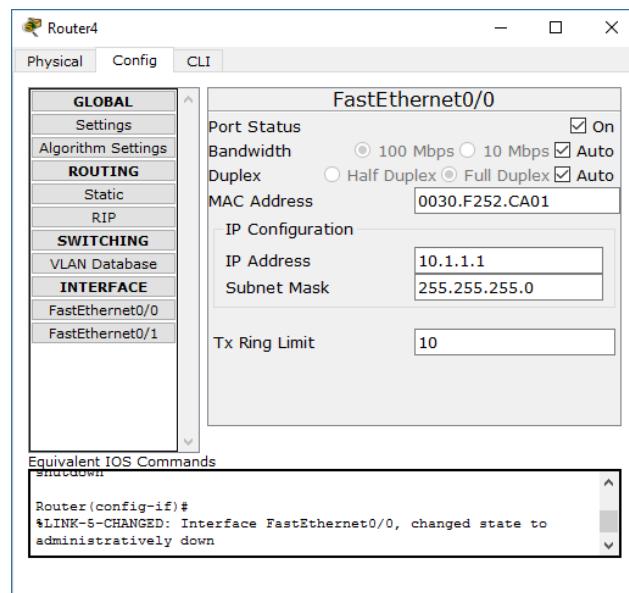
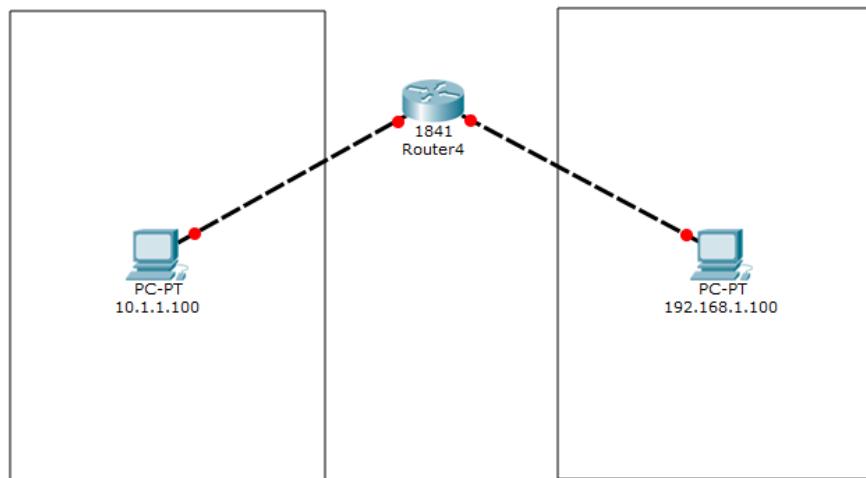
RAČUNARSKE MREŽE

Laboratorijske vježbe

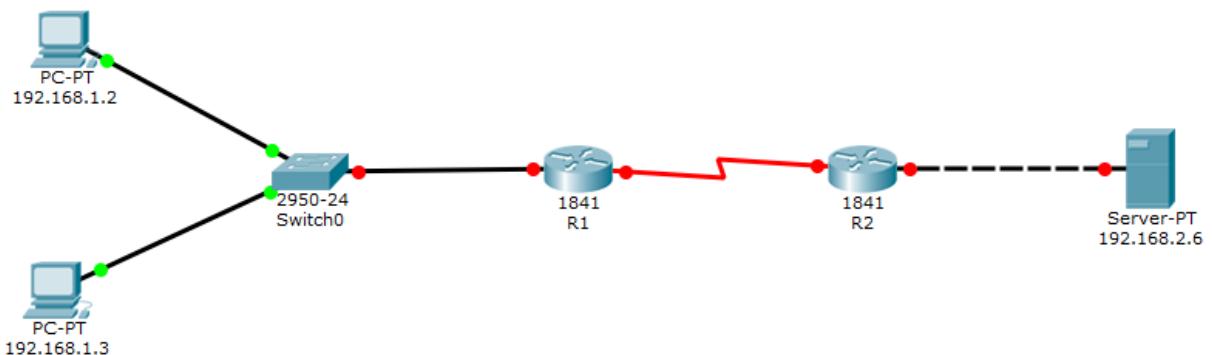
**CISCO Packet Tracer
(Vježba 2)**

**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:

The screenshot shows the Cisco IOS Command Line Interface (CLI) running on Router R1. The window title is "R1". The interface tabs are "Physical", "Config" (selected), and "CLI". The main area displays the following configuration commands:

```
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
```

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

Podešavanje za komunikaciju Router R1 – Router R2:

The screenshot shows the Cisco IOS Command Line Interface for Router R1. The window title is "R1". The tabs at the top are "Physical", "Config" (which is selected), and "CLI". The main area displays the following configuration and interface status:

```
*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
```

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

Podešavanje za komunikaciju Router R2 – Server:

The screenshot shows the Cisco IOS Command Line Interface for Router R2. The window title is "R2". The tabs at the top are "Physical", "Config" (which is selected), and "CLI". The main area displays the following startup information and configuration commands:

```
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.
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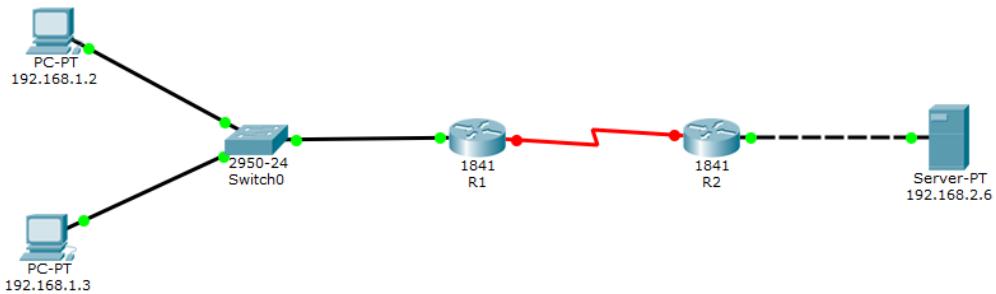
Press RETURN to get started!

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
```

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



Podešavanje za komunikaciju Router R2 – Router R1:

```

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

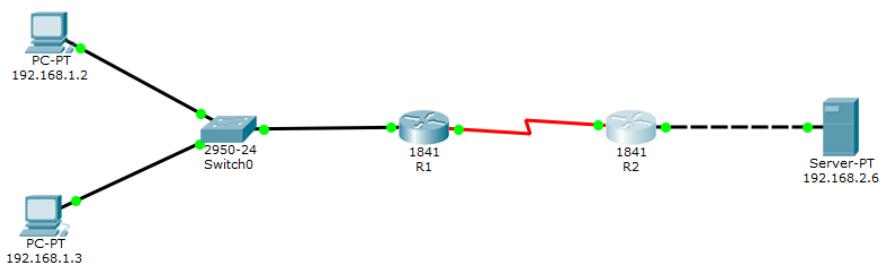
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa0/0
Router(config-if)#ip address 192.168.2.5 255.255.255.252
Router(config-if)#no shut
Router(config-if)#int s0/0/0
Router(config-if)#ip address 192.168.2.2 255.255.255.252
Router(config-if)#no shut

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

```



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

```

Command Prompt

Packet Tracer PC Command Line 1.0
PC>ping 192.168.2.6

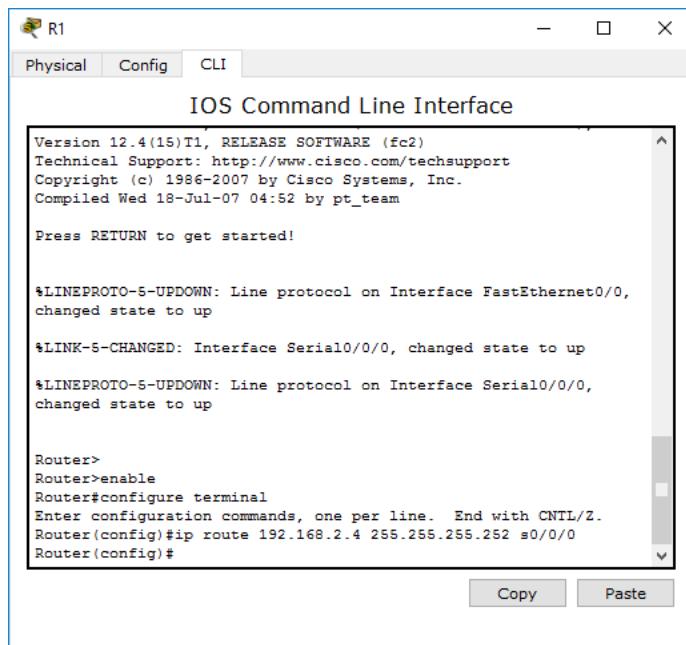
Pinging 192.168.2.6 with 32 bytes of data:

Reply from 192.168.1.1: Destination host unreachable.

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

```

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



```
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

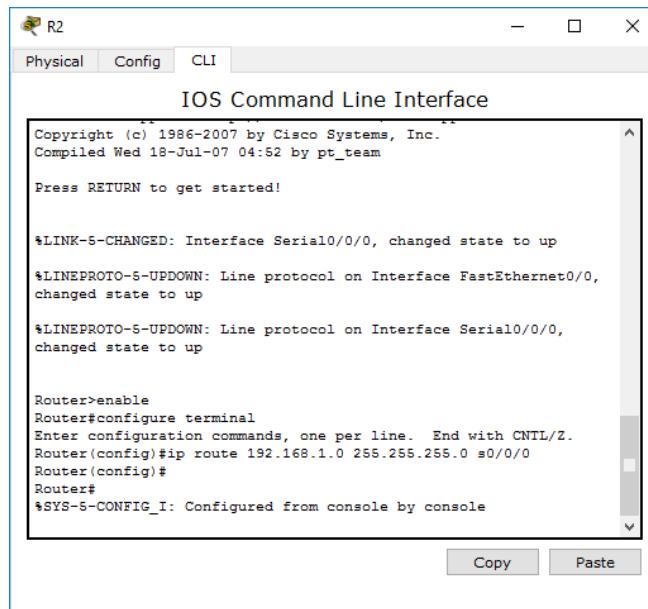
Press RETURN to get started!

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
%LINK-5-CHANGED: 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)#

```

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



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

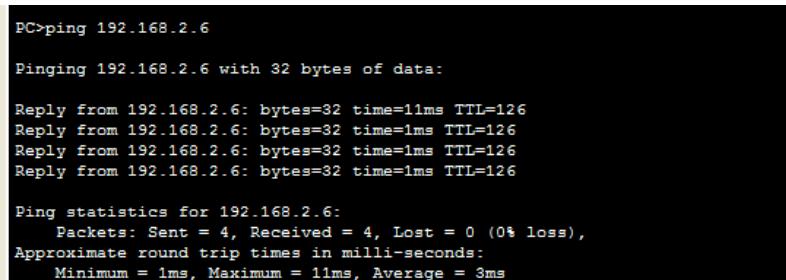
Press RETURN to get started!

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
%LINK-5-CHANGED: 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

```

Sad je uspješno konfigurirana cijela mreža.



```
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

```