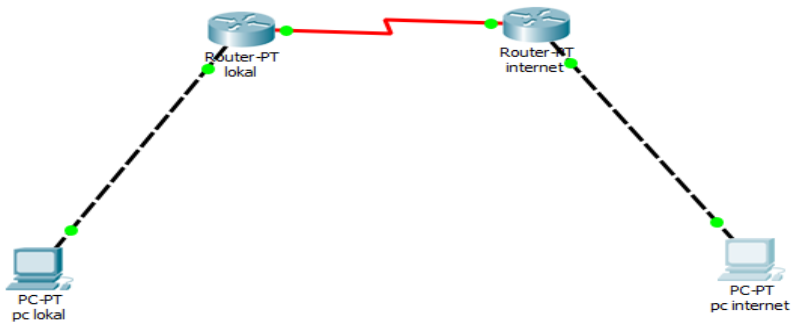
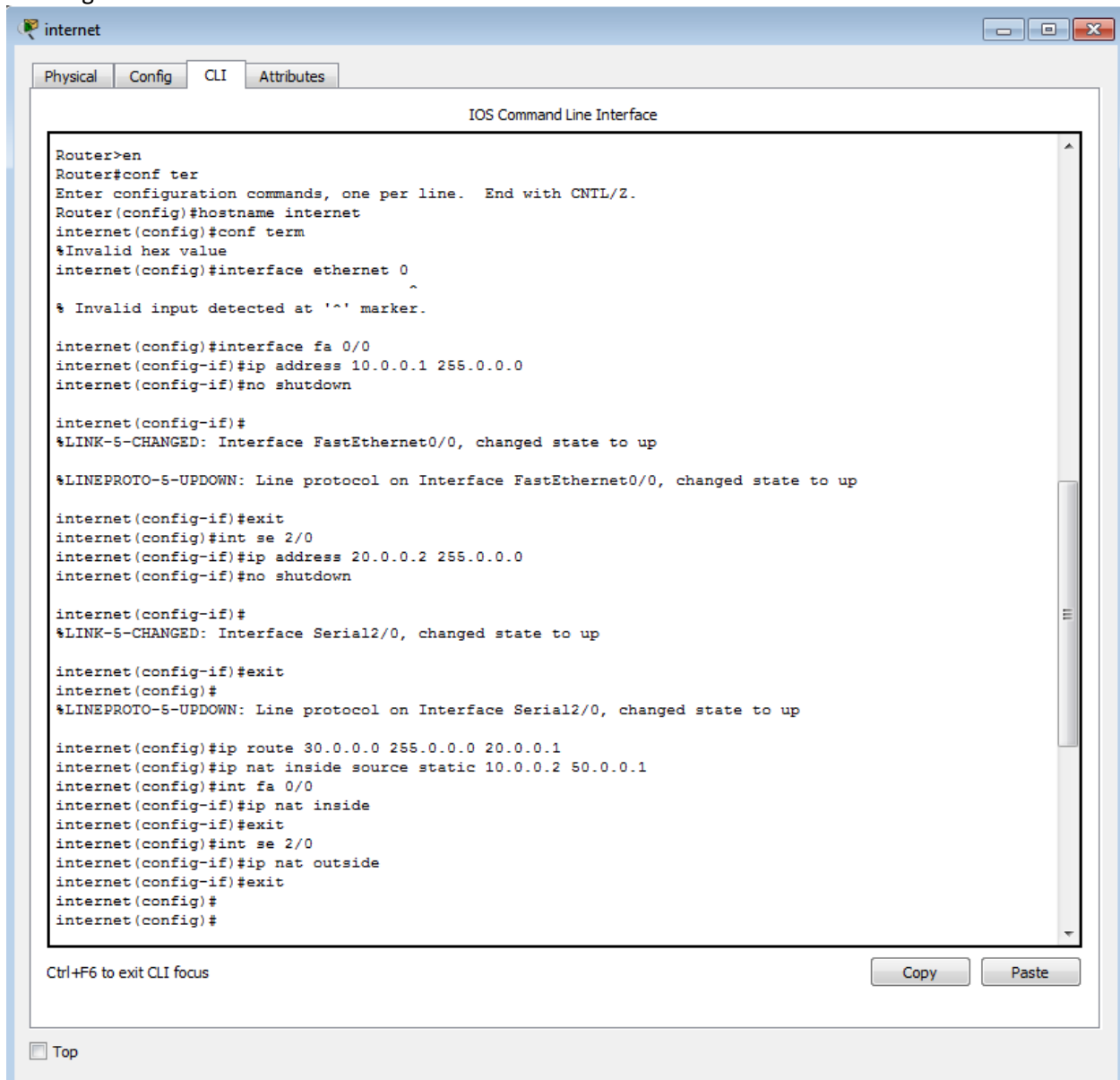


Name : Muhammad Rafi
NIM : L200174138

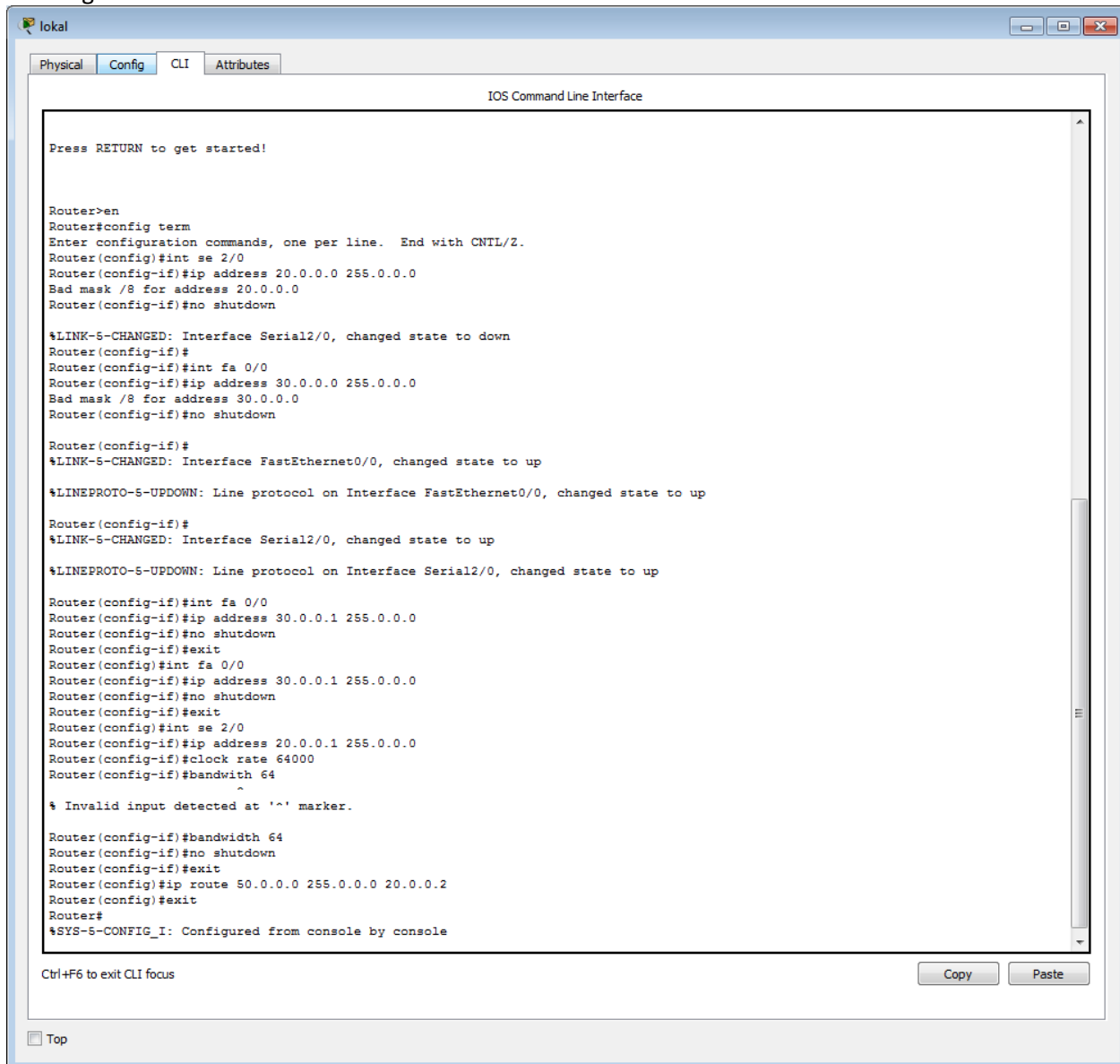
Modul 9



1.Konfigurasi Router Internet



2.Konfigurasi Router Lokal



3.Konfigurasi IPPC internet

pc internet

Physical Config Desktop Programming Attributes

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address 10.0.0.2

Subnet Mask 255.0.0.0

Default Gateway 10.0.0.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::260:3EFF:FE08:D9A7

IPv6 Gateway

IPv6 DNS Server

Top

4. Konfigurasi IP PC lokal

The screenshot shows a software window titled "pc lokal" with a standard Windows-style title bar (minimize, maximize, close buttons). Inside the window, there are five tabs: "Physical", "Config", "Desktop", "Programming", and "Attributes". The "Config" tab is currently selected and highlighted. Within the "Config" tab, there is a sub-tab titled "IP Configuration" with a close button (X) in its top right corner. The "IP Configuration" sub-tab contains two main sections: "IP Configuration" and "IPv6 Configuration".

IP Configuration Section:

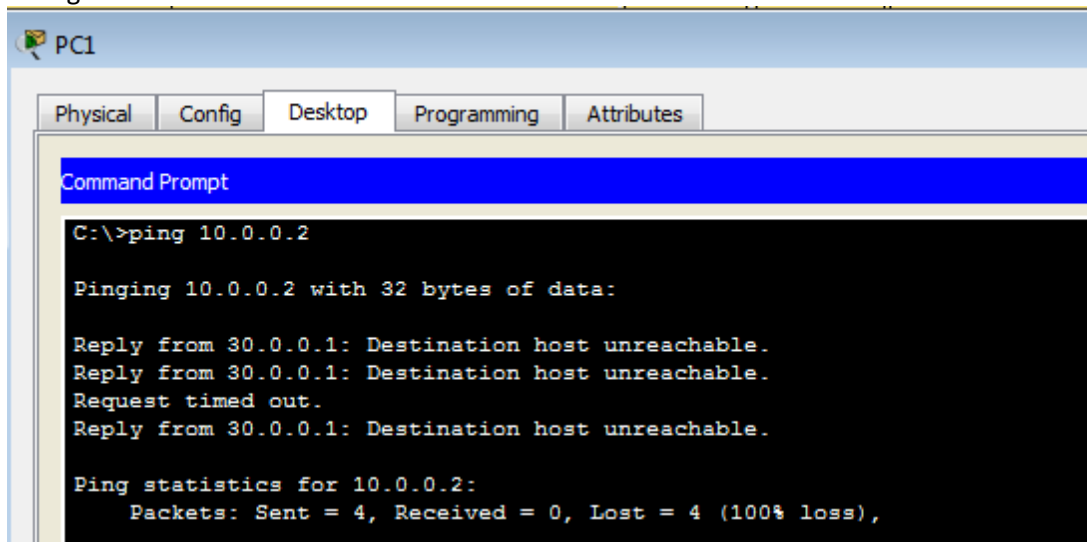
- There are two radio buttons: "DHCP" (unselected) and "Static" (selected).
- Below the radio buttons are four text input fields:
 - "IP Address" with the value "30.0.0.2"
 - "Subnet Mask" with the value "255.0.0.0"
 - "Default Gateway" with the value "30.0.0.1"
 - "DNS Server" with the value "0.0.0.0"

IPv6 Configuration Section:

- There are three radio buttons: "DHCP" (unselected), "Auto Config" (unselected), and "Static" (selected).
- Below the radio buttons are four text input fields:
 - "IPv6 Address" is empty, followed by a "/" separator and another empty field.
 - "Link Local Address" with the value "FE80::230:A3FF:FE7:3EC7"
 - "IPv6 Gateway" is empty.
 - "IPv6 DNS Server" is empty.

At the bottom left of the "Config" tab, there is a "Top" button with a small upward-pointing arrow icon.

5. Ping ke IP Private Server



The screenshot shows a window titled 'PC1' with tabs for 'Physical', 'Config', 'Desktop', 'Programming', and 'Attributes'. The 'Desktop' tab is active, displaying a 'Command Prompt' window. The command prompt shows the execution of the command 'ping 10.0.0.2'. The output indicates that the destination host is unreachable for all four attempts, resulting in a 100% loss of packets.

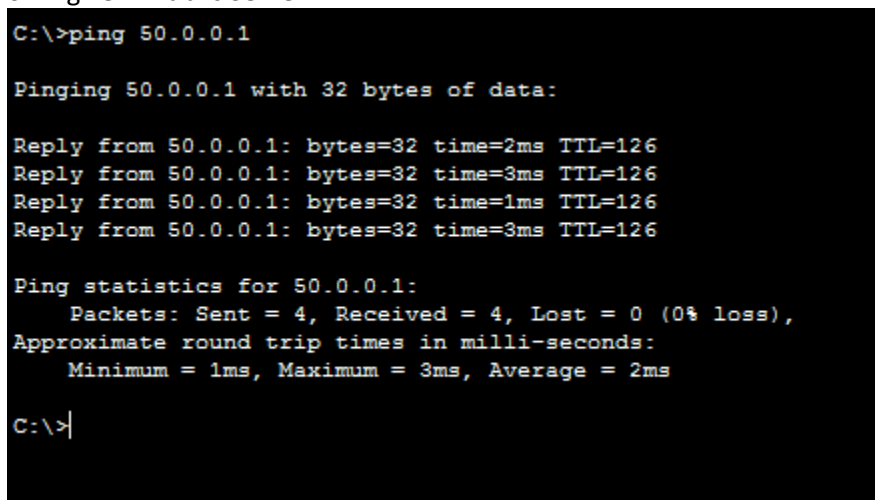
```
C:\>ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data:

Reply from 30.0.0.1: Destination host unreachable.
Reply from 30.0.0.1: Destination host unreachable.
Request timed out.
Reply from 30.0.0.1: Destination host unreachable.

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

6. Ping ke IP Public Server



The screenshot shows a Command Prompt window with the command 'ping 50.0.0.1'. The output shows successful replies from 50.0.0.1 with varying round-trip times (1ms to 3ms) and a TTL of 126. The ping statistics indicate 0% loss of packets.

```
C:\>ping 50.0.0.1

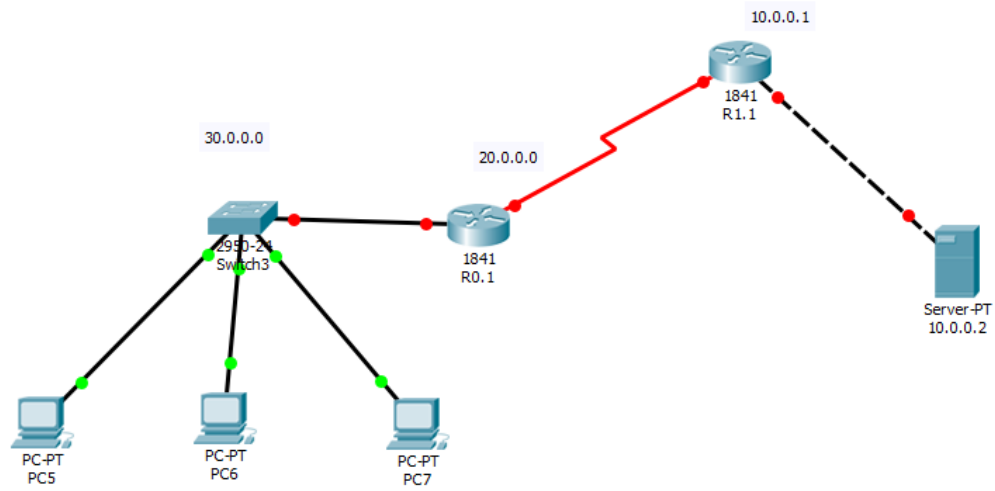
Pinging 50.0.0.1 with 32 bytes of data:

Reply from 50.0.0.1: bytes=32 time=2ms TTL=126
Reply from 50.0.0.1: bytes=32 time=3ms TTL=126
Reply from 50.0.0.1: bytes=32 time=1ms TTL=126
Reply from 50.0.0.1: bytes=32 time=3ms TTL=126

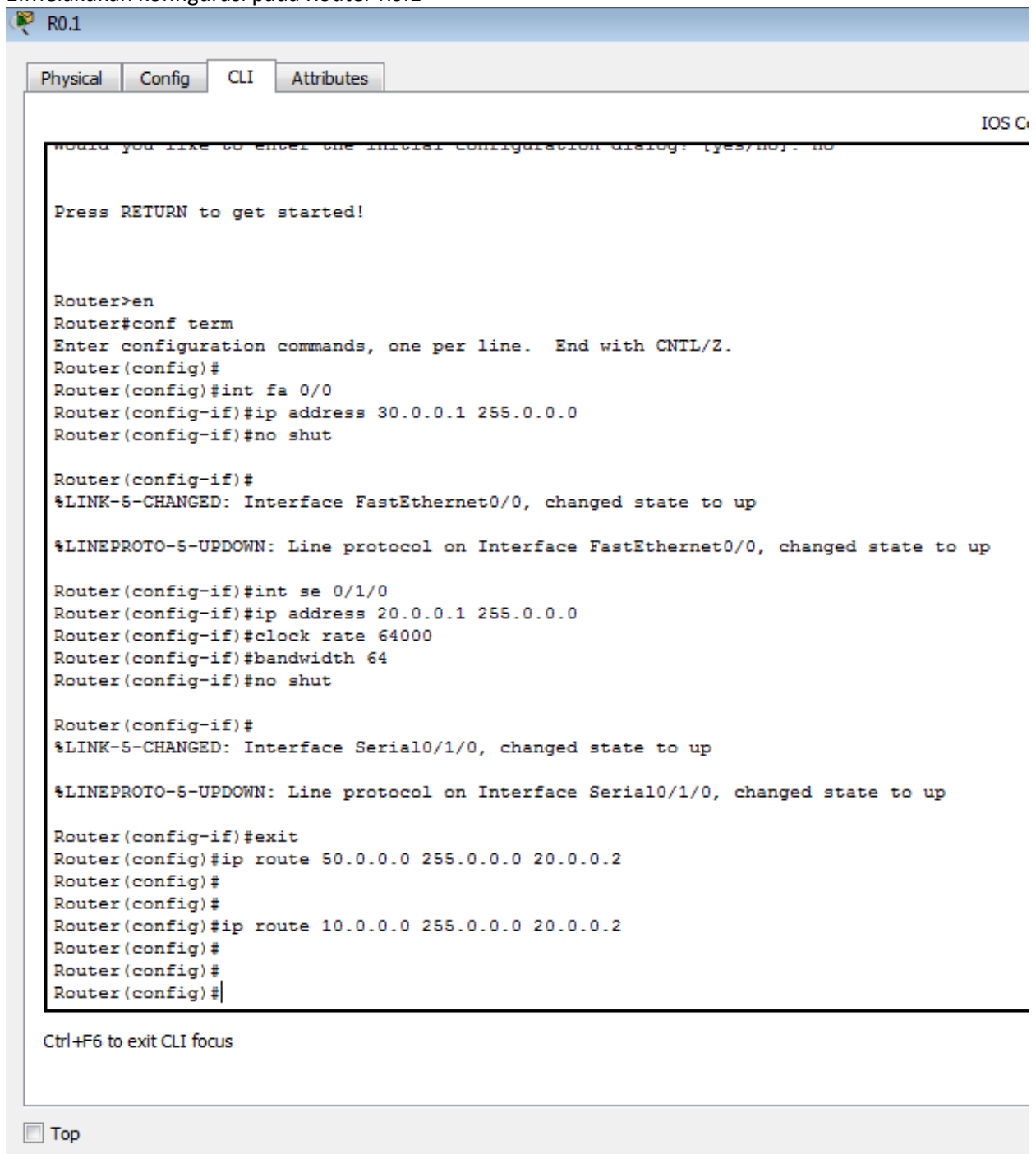
Ping statistics for 50.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 3ms, Average = 2ms

C:\>|
```

7. Mengembangkan topologi dari langkah 1 menjadi topologi seperti gambar dibawah ini :



1. Melakukan konfigurasi pada Router R0.1



The screenshot displays a network simulator window titled "R0.1". It features four tabs: "Physical", "Config", "CLI", and "Attributes". The "CLI" tab is active, showing a terminal window with the following text:

```
IOS C
would you like to enter the initial configuration dialog? [yes/no]: no

Press RETURN to get started!

Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#
Router(config)#int fa 0/0
Router(config-if)#ip address 30.0.0.1 255.0.0.0
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

Router(config-if)#int se 0/1/0
Router(config-if)#ip address 20.0.0.1 255.0.0.0
Router(config-if)#clock rate 64000
Router(config-if)#bandwidth 64
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/1/0, changed state to up

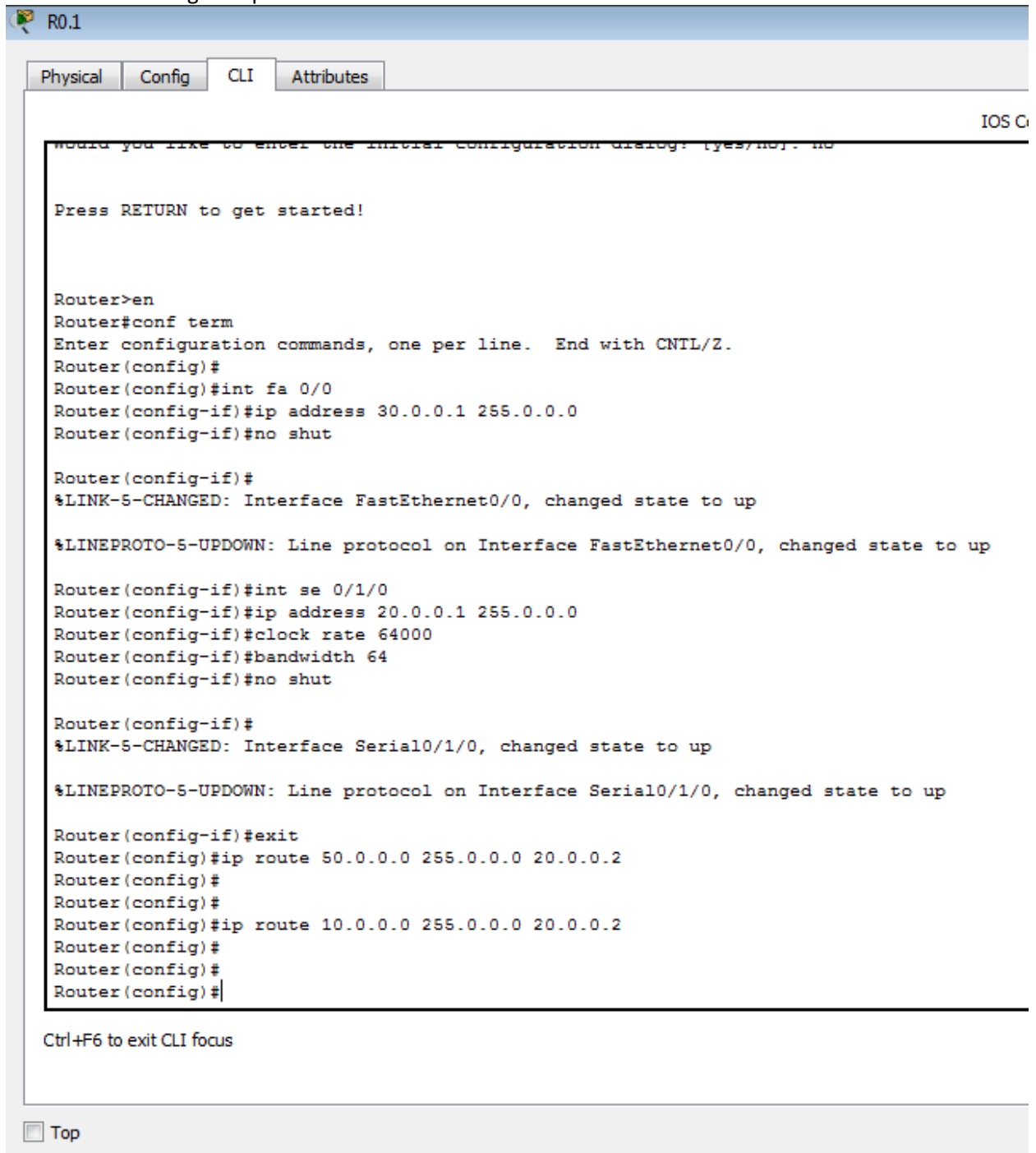
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up

Router(config-if)#exit
Router(config)#ip route 50.0.0.0 255.0.0.0 20.0.0.2
Router(config)#
Router(config)#
Router(config)#ip route 10.0.0.0 255.0.0.0 20.0.0.2
Router(config)#
Router(config)#
Router(config)#
```

Below the terminal window, the text "Ctrl+F6 to exit CLI focus" is displayed.

At the bottom left of the window, there is a checkbox labeled "Top".

2. Melakukan konfigurasi pada Router R1.1



R0.1

Physical Config CLI Attributes

IOS C

```
Would you like to enter the initial configuration dialog? [yes/no]: no

Press RETURN to get started!

Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#
Router(config)#int fa 0/0
Router(config-if)#ip address 30.0.0.1 255.0.0.0
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

Router(config-if)#int se 0/1/0
Router(config-if)#ip address 20.0.0.1 255.0.0.0
Router(config-if)#clock rate 64000
Router(config-if)#bandwidth 64
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up

Router(config-if)#exit
Router(config)#ip route 50.0.0.0 255.0.0.0 20.0.0.2
Router(config)#
Router(config)#
Router(config)#ip route 10.0.0.0 255.0.0.0 20.0.0.2
Router(config)#
Router(config)#
Router(config)#
```

Ctrl+F6 to exit CLI focus

☐ Top

3.Melakukan Ping dari PC5 ke Publik Server

```
C:\>ping 50.0.0.1

Pinging 50.0.0.1 with 32 bytes of data:

Reply from 50.0.0.1: bytes=32 time=1ms TTL=126
Reply from 50.0.0.1: bytes=32 time=1ms TTL=126
Reply from 50.0.0.1: bytes=32 time=1ms TTL=126
Reply from 50.0.0.1: bytes=32 time=1ms TTL=126

Ping statistics for 50.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms
```