

Name: Shidqi Aditya Falah

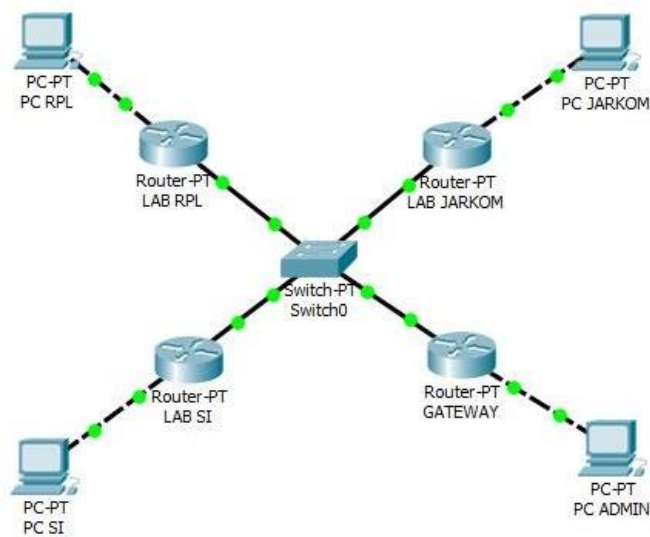
NIM : L202173001

Class : X

Tugas Modul 11

NOMOR 1

1. Desain jaringan



2. Konfigurasi Router Jarkom

```
LAB JARKOM

Physical Config CLI Attributes

IOS Command Line Interface

Router>enable
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa 0/0
Router(config-if)#ip address 172.16.0.1 255.255.255.0
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)#int fa 1/0
Router(config-if)#ip address 172.15.0.1 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up

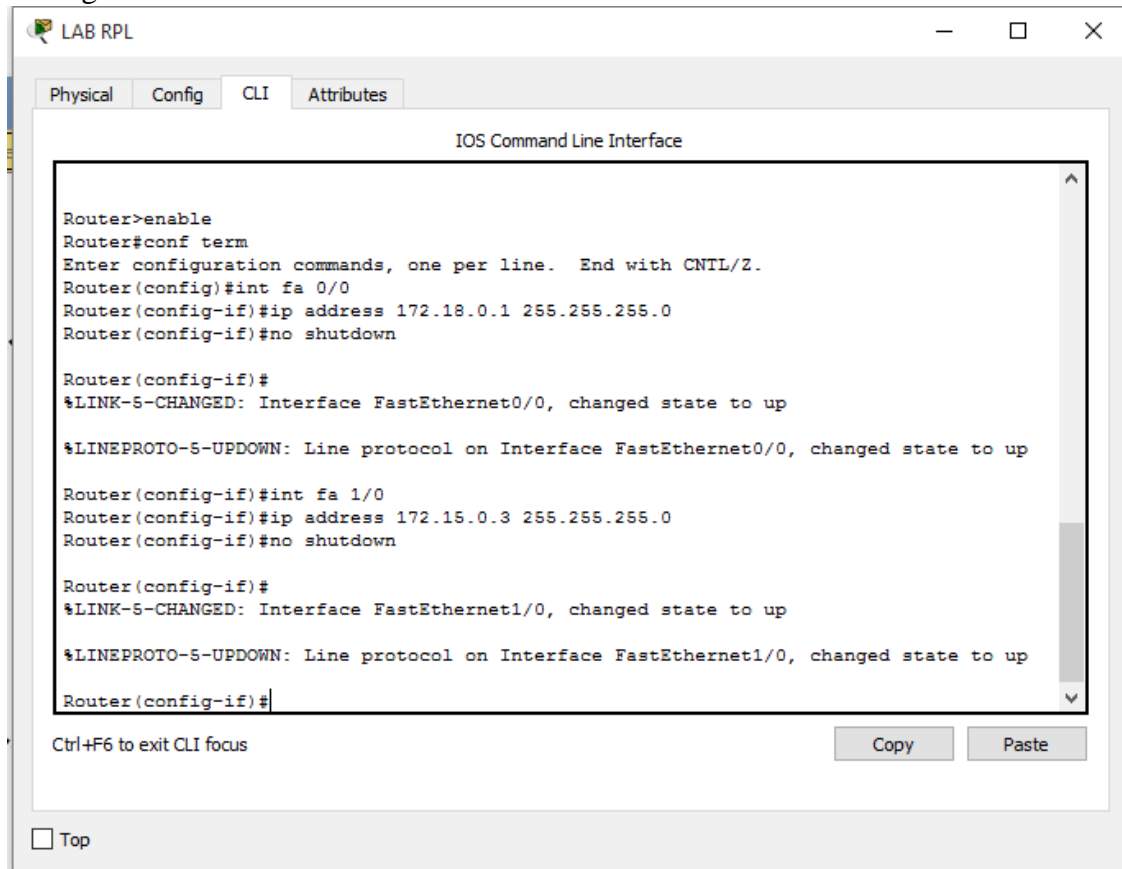
Router(config-if)#exit
Router(config)#hostname jarkom
jarkom(config)#
```

Ctrl+F6 to exit CLI focus

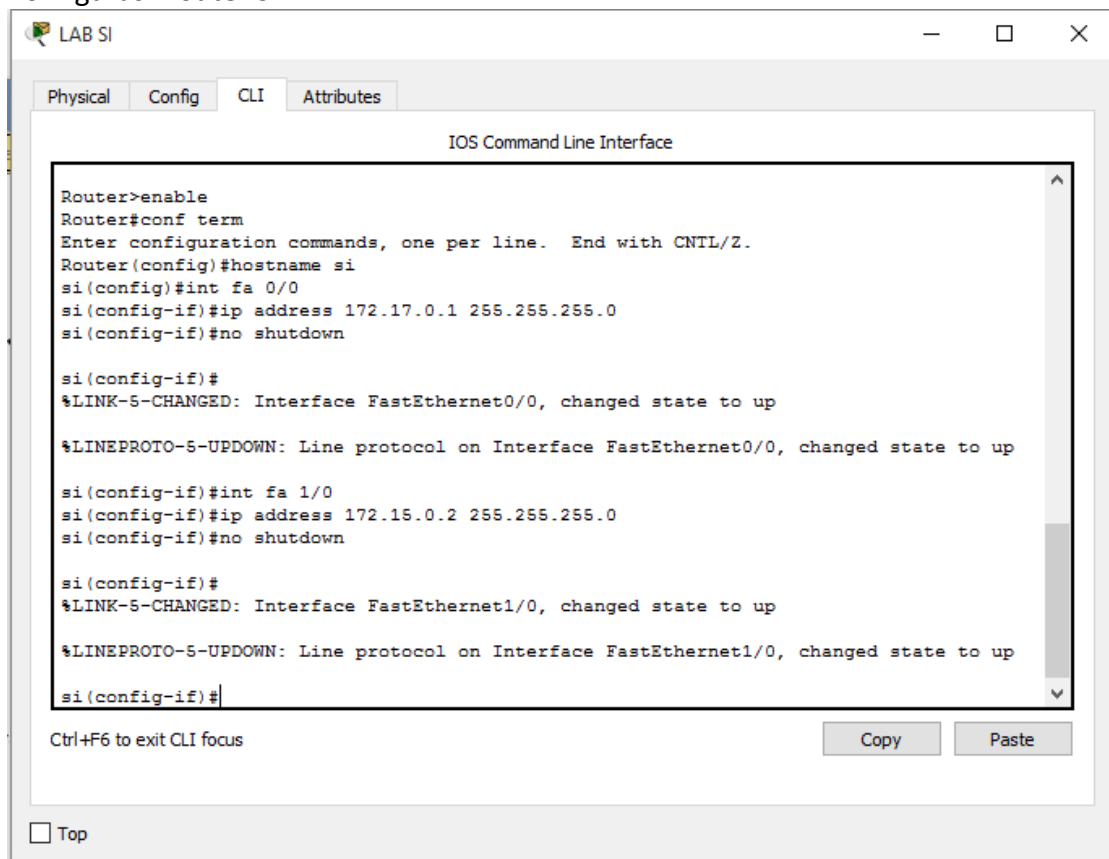
Copy Paste

☐ Top

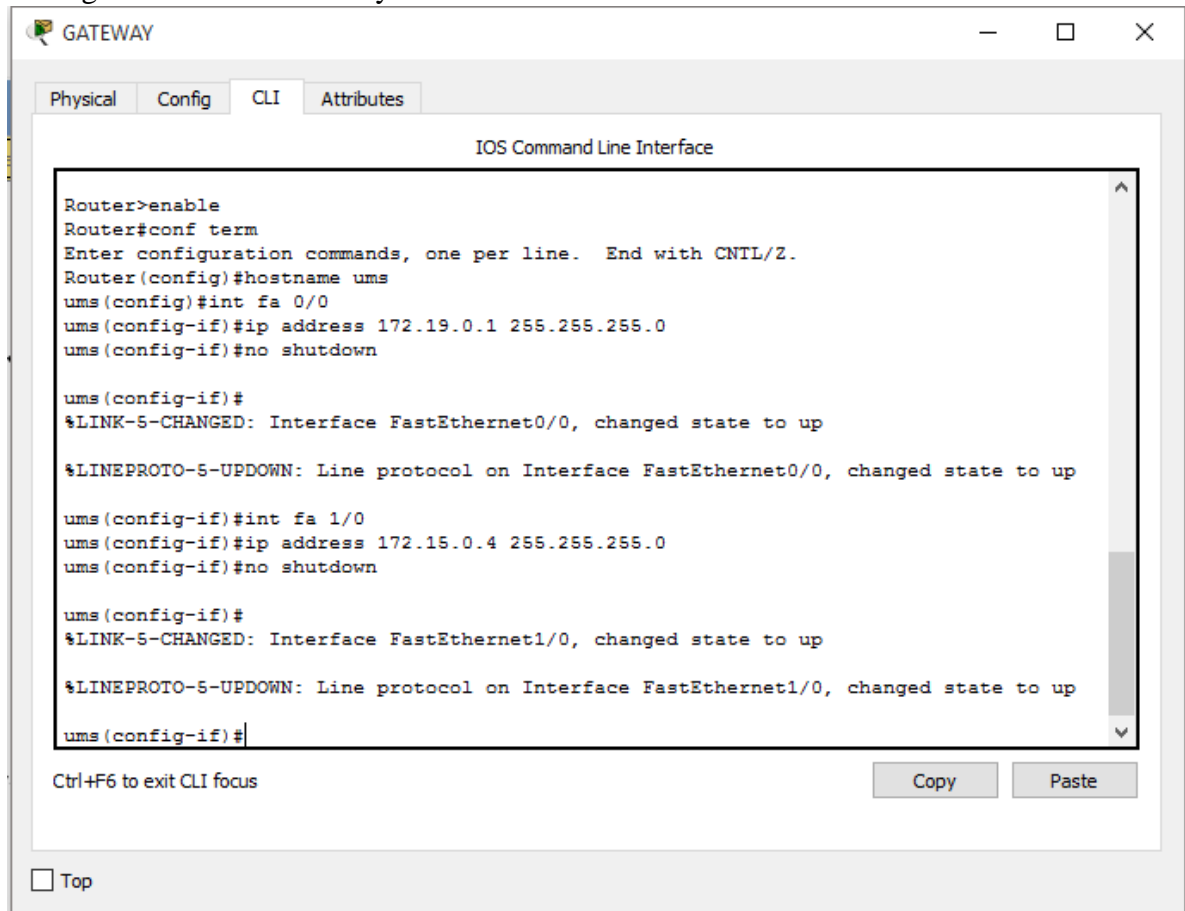
3. Konfigurasi Router RPL



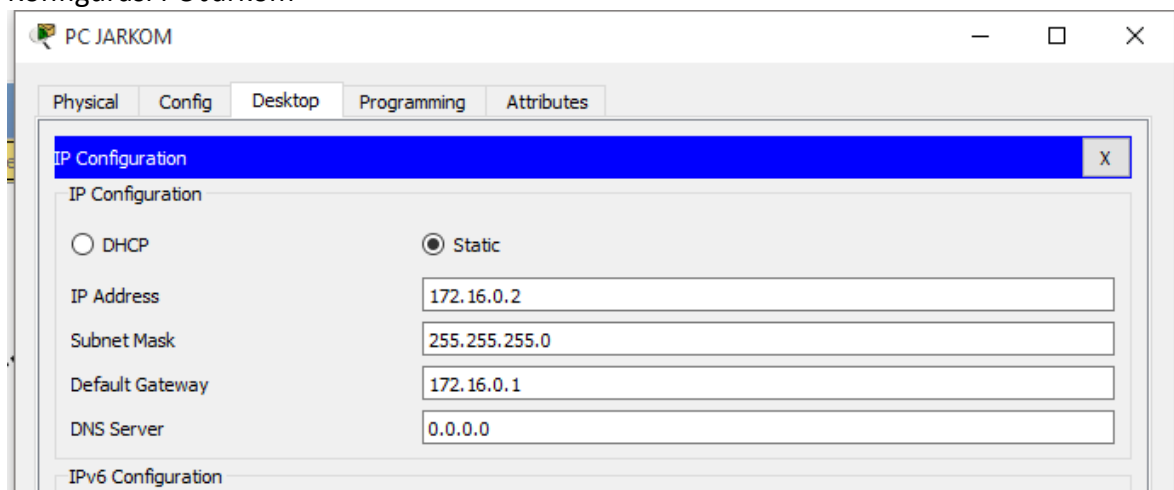
4. Konfigurasi Router SI



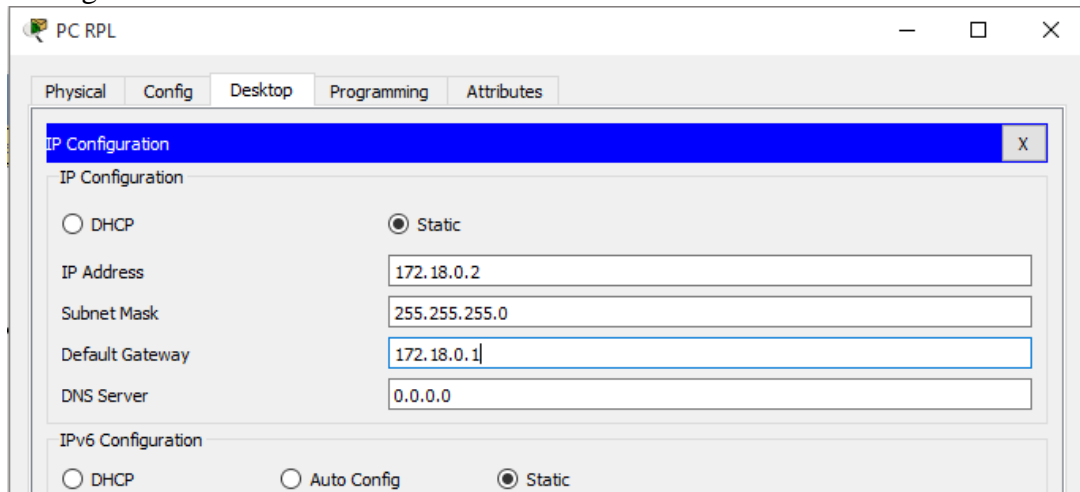
5. Konfigurasi Router Gateway



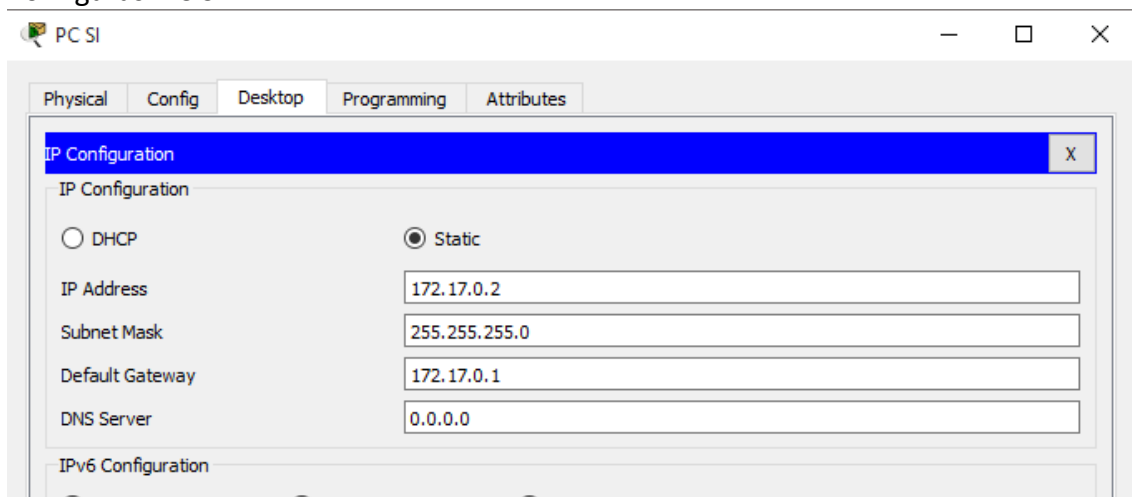
6. Konfigurasi PC Jarkom



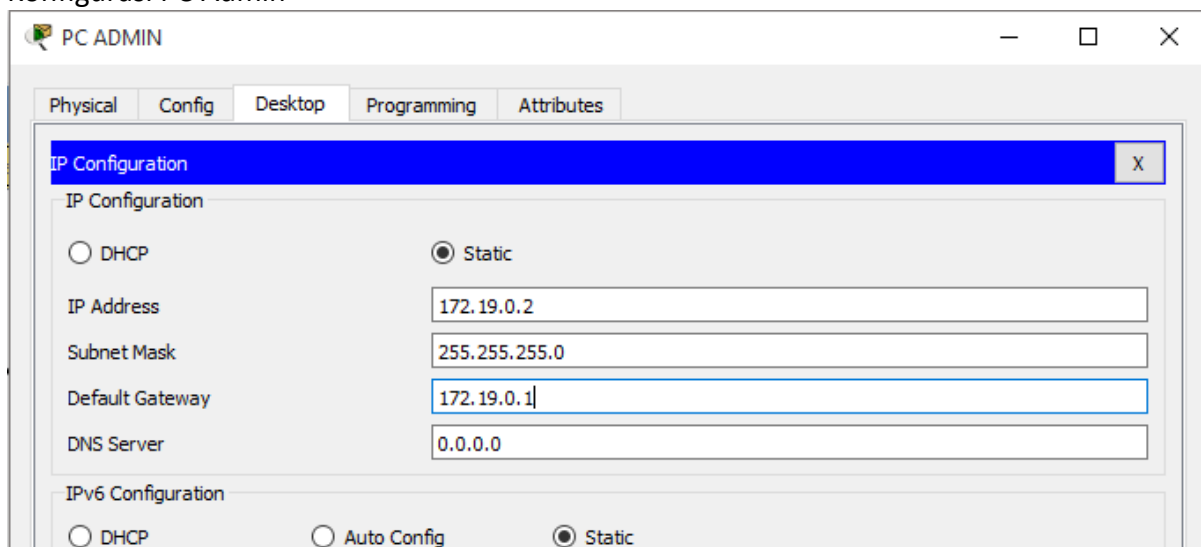
7. Konfigurasi PC RPL



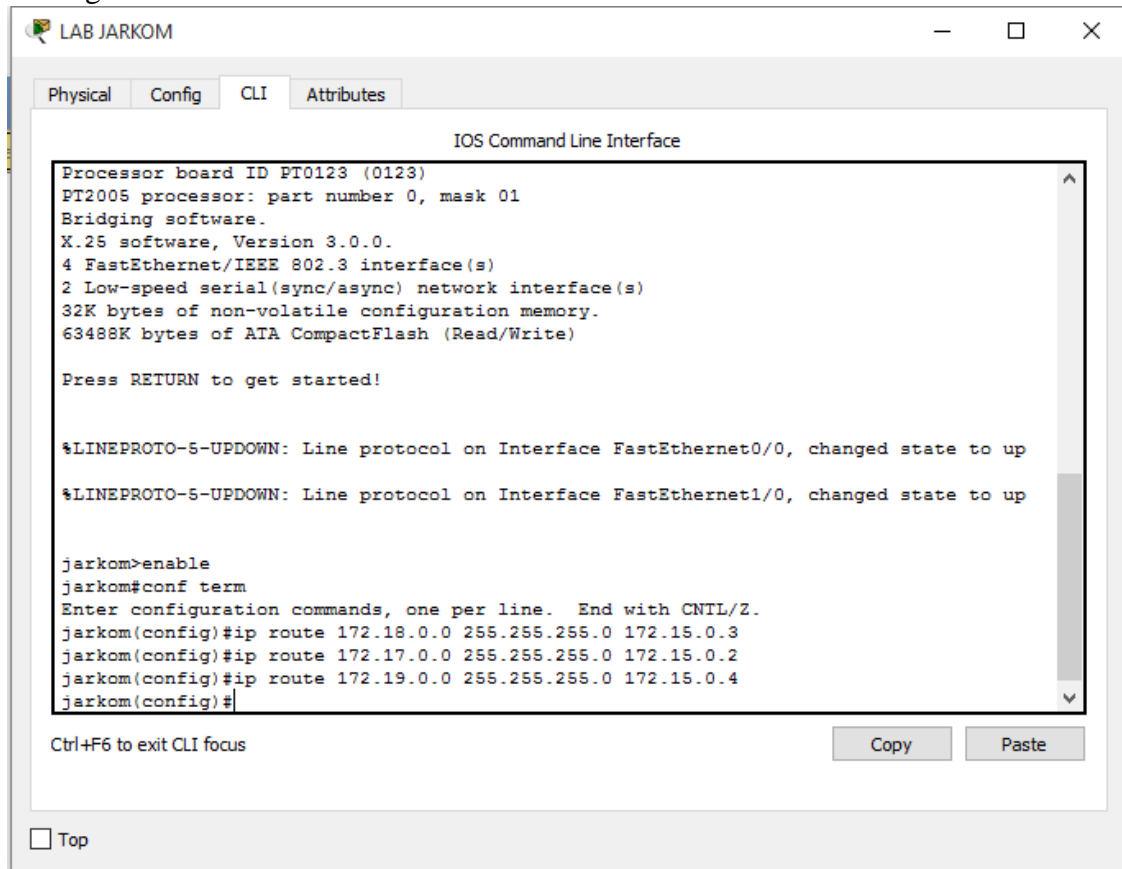
8. Konfigurasi PC SI



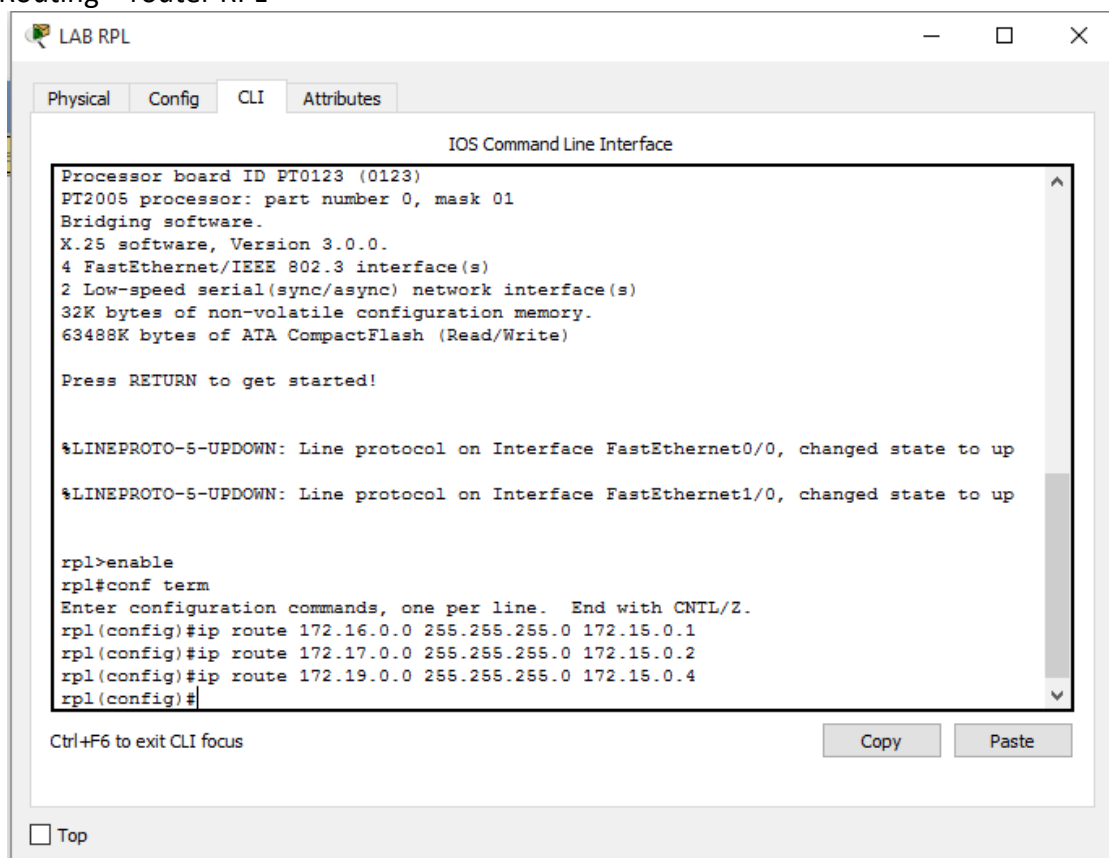
9. Konfigurasi PC Admin



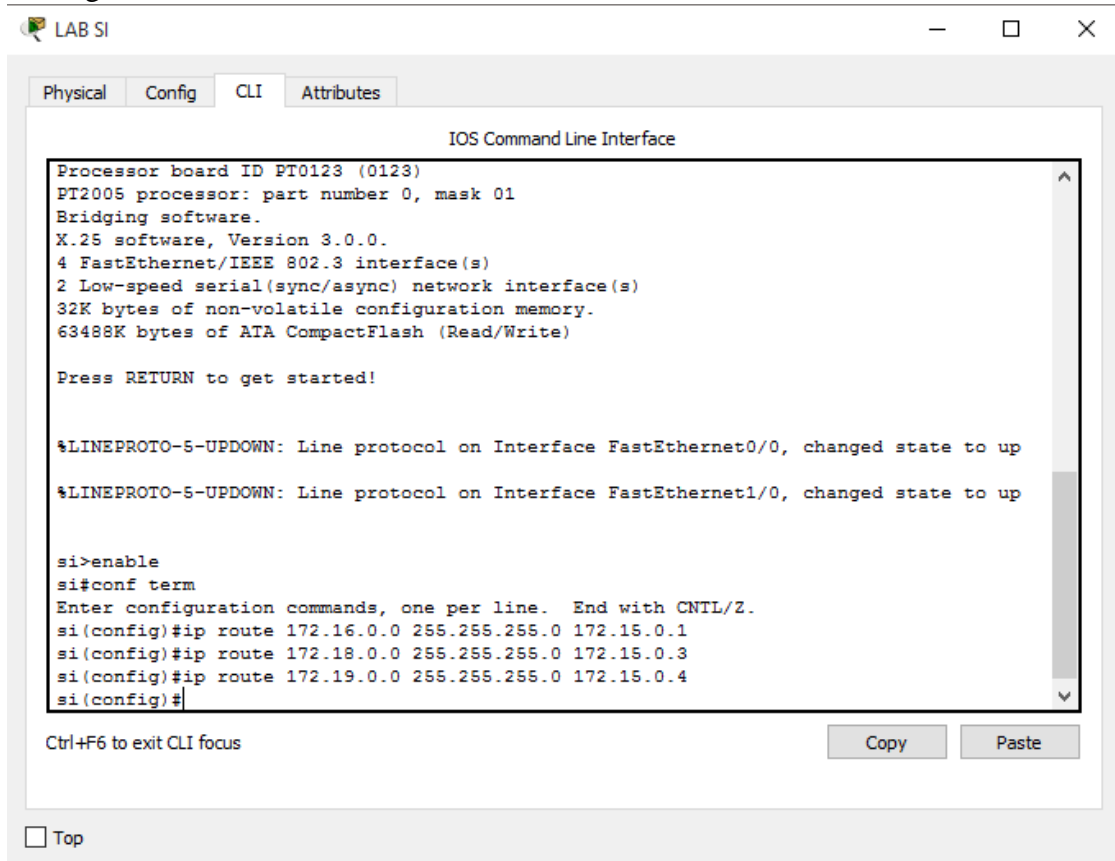
10. Routing – router Jarkom



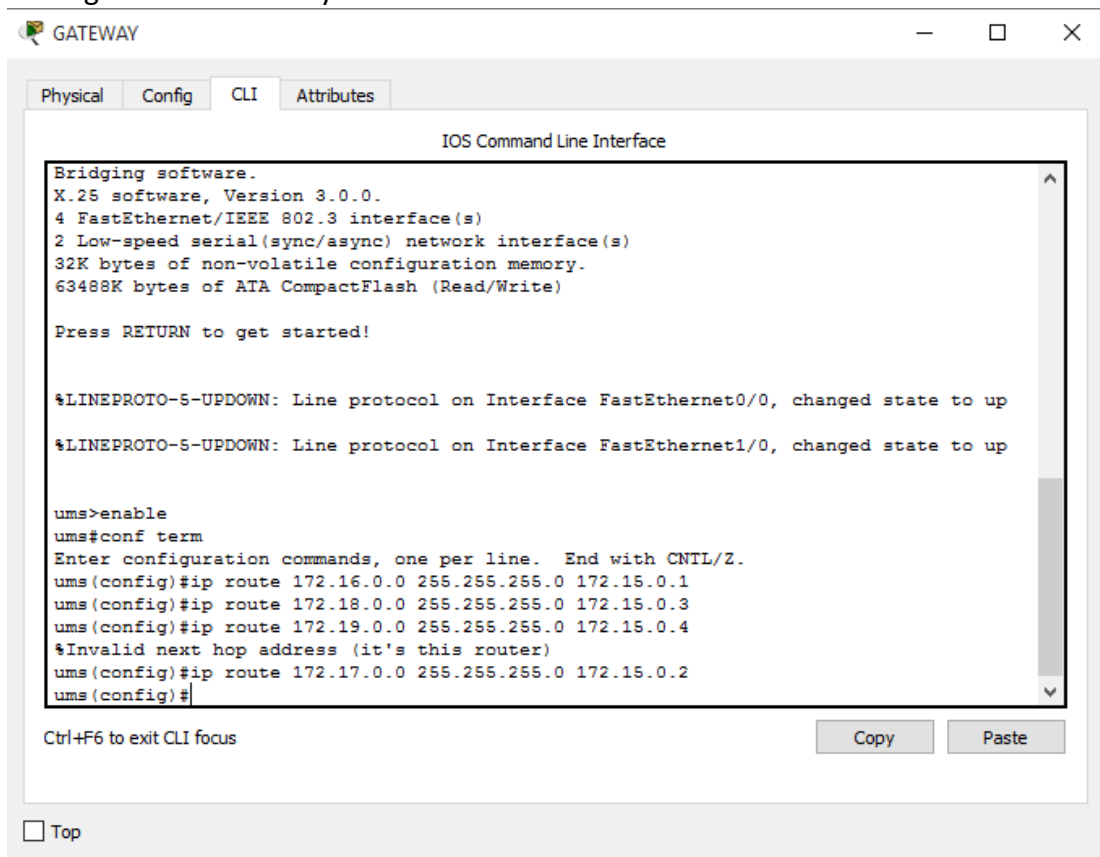
11. Routing – router RPL



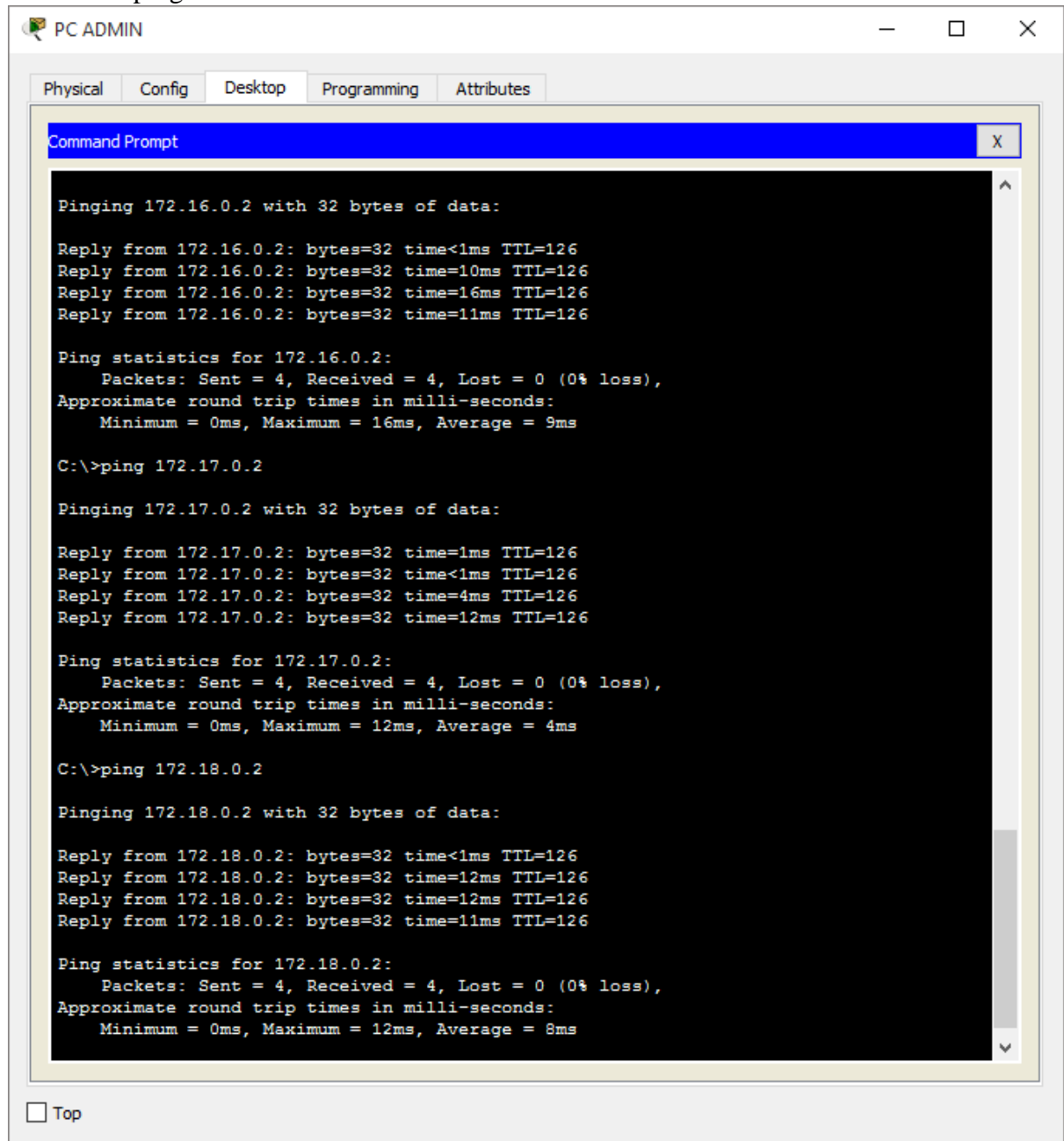
12. Routing – router SI



13. Routing – router Gateway



14. Melakukan ping

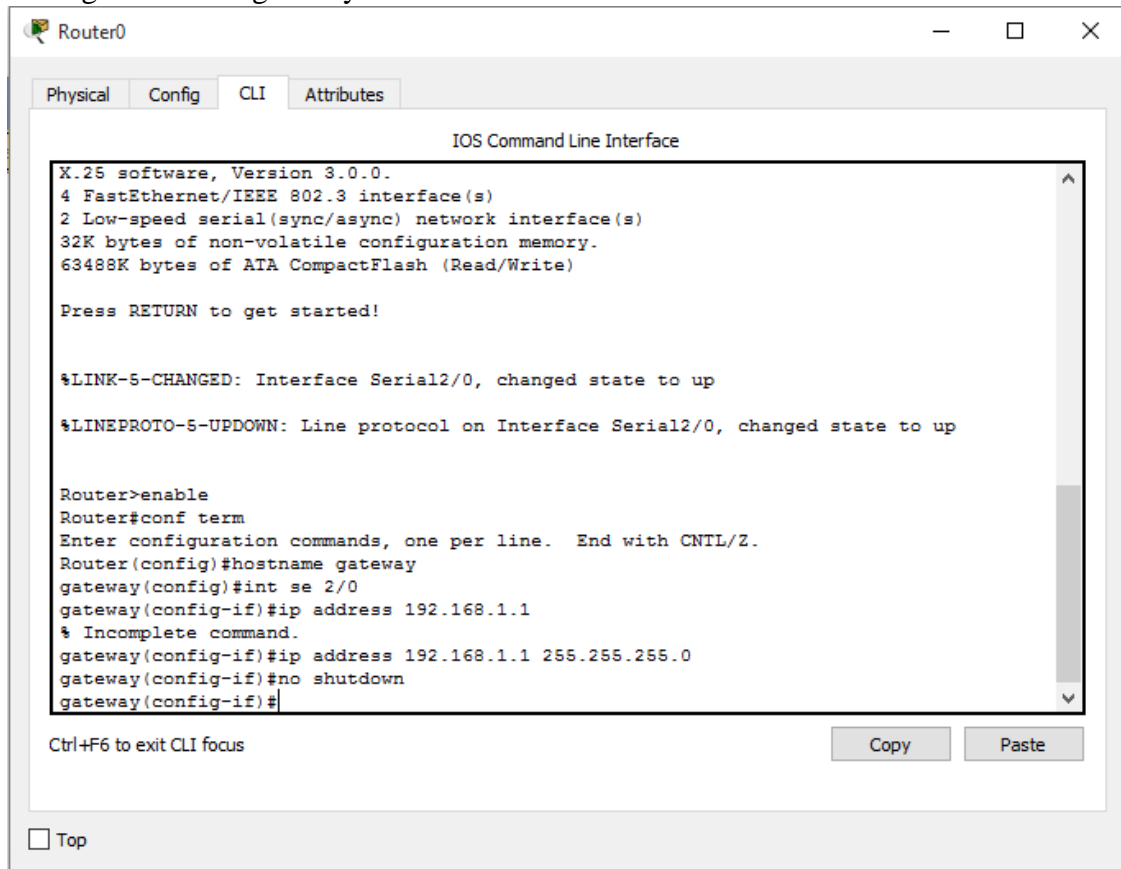


NOMOR 2 – STATIC

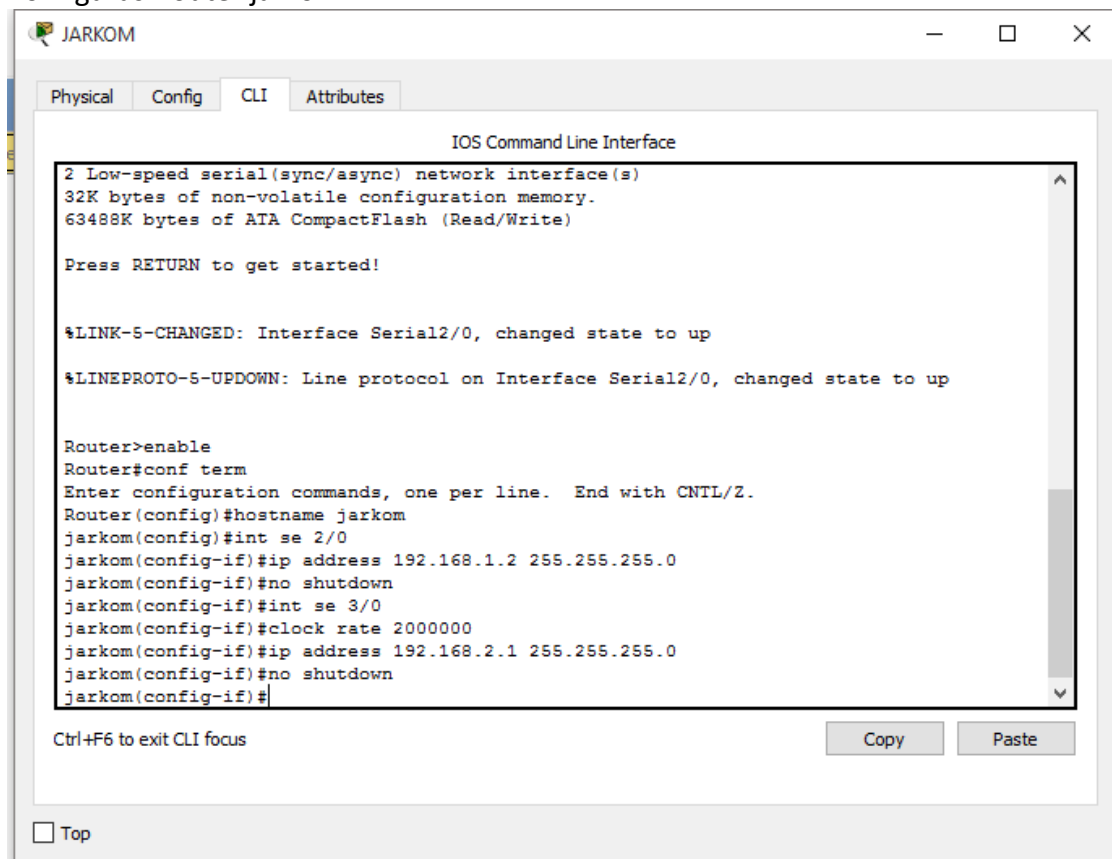
1. Desain jaringan



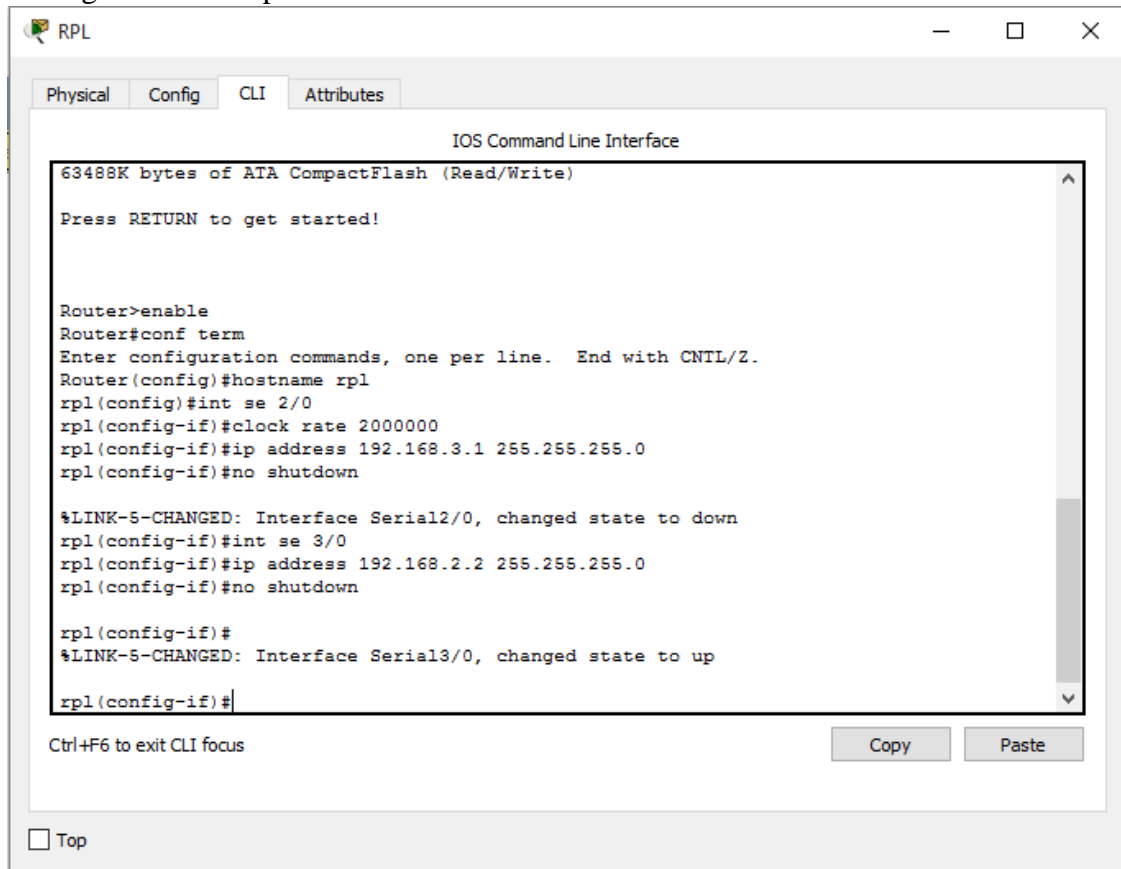
2. Konfigurasi router gateway



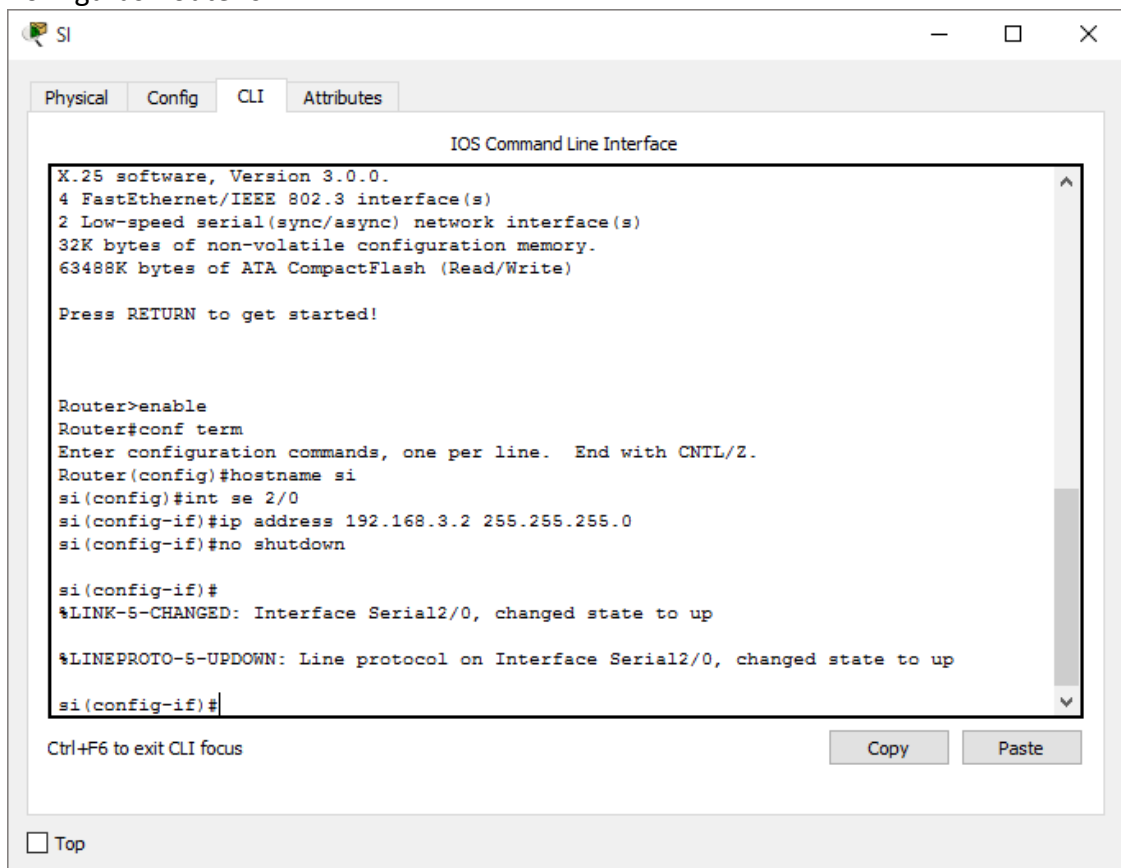
3. Konfigurasi router jarkom



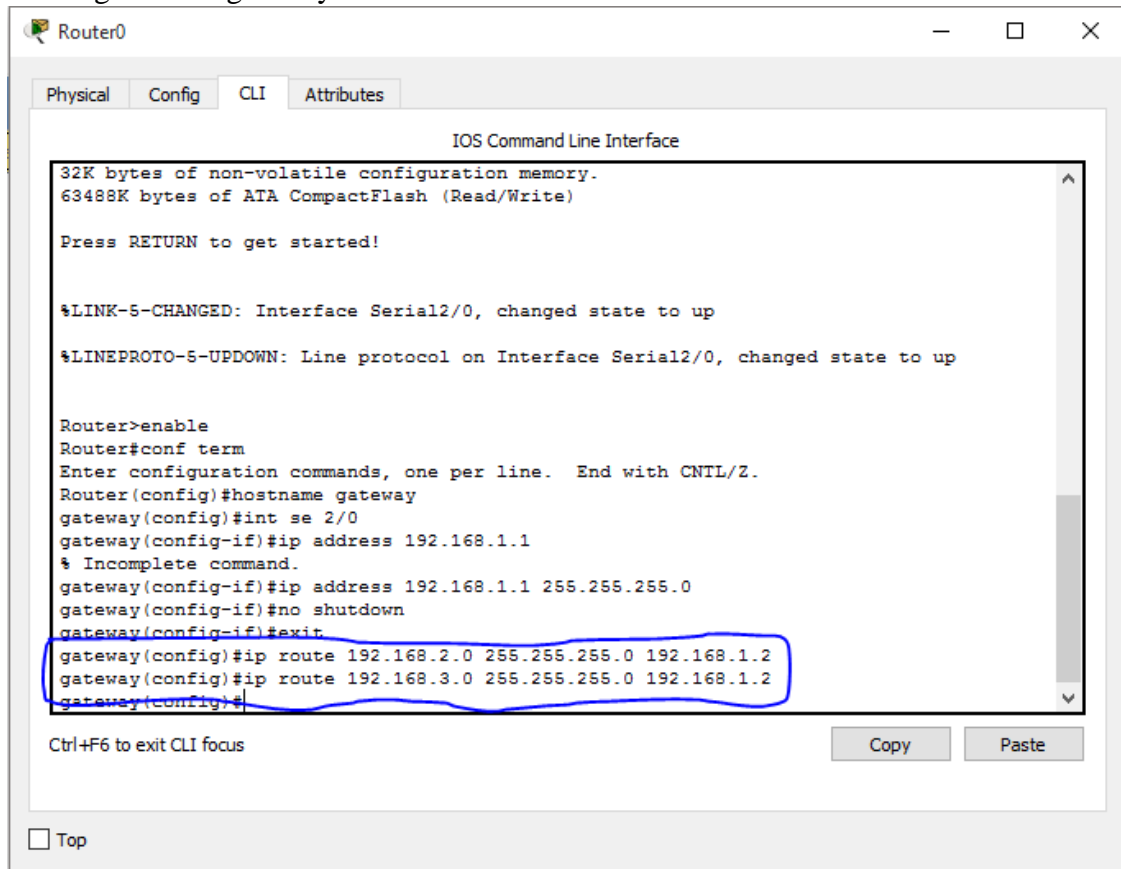
4. Konfigurasi router rpl



5. Konfigurasi router si



6. Routing – router gateway



The screenshot shows the CLI of Router0. The configuration includes enabling the router, entering terminal configuration mode, setting the hostname to 'gateway', configuring interface Serial2/0 with IP 192.168.1.1 and a 255.255.255.0 mask, and enabling it. Two static routes are configured: 192.168.2.0/24 pointing to 192.168.1.2 and 192.168.3.0/24 pointing to 192.168.1.2. These two route commands are circled in blue.

```
Router0
Physical Config CLI Attributes
IOS Command Line Interface
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)

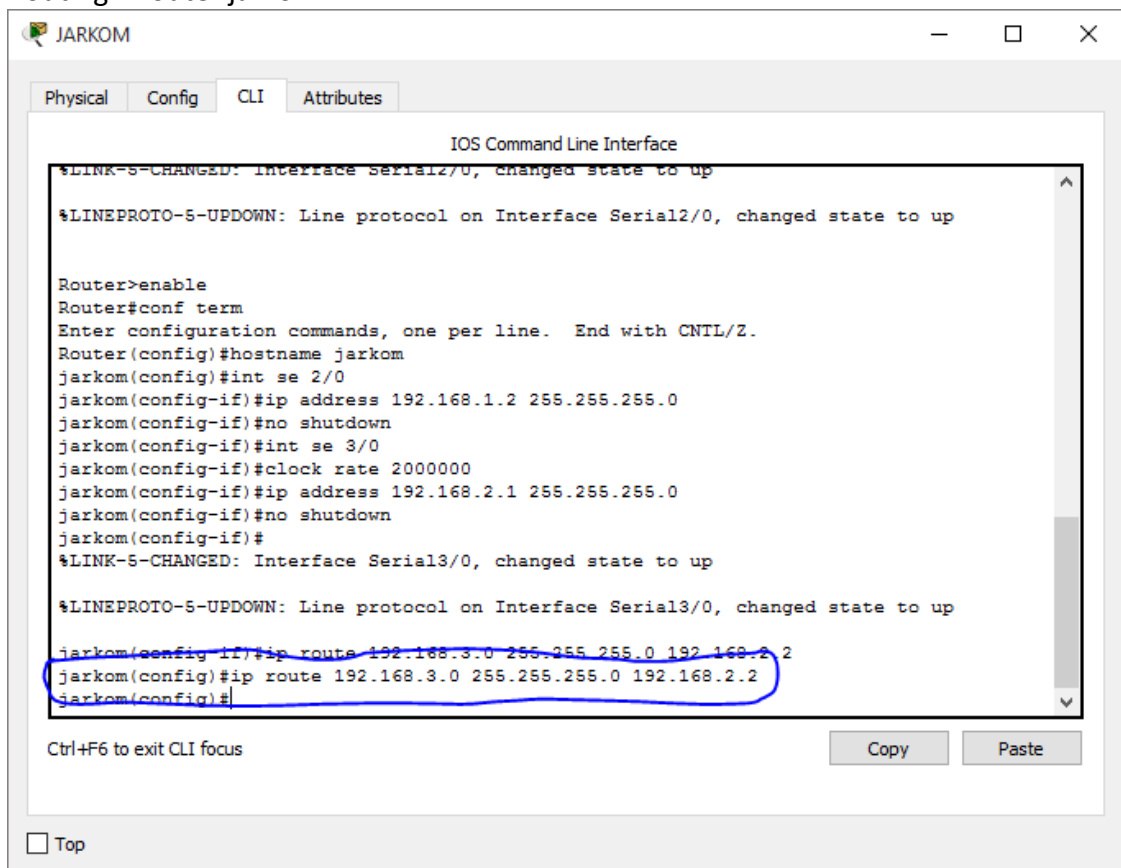
Press RETURN to get started!

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

Router>enable
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname gateway
gateway(config)#int se 2/0
gateway(config-if)#ip address 192.168.1.1
% Incomplete command.
gateway(config-if)#ip address 192.168.1.1 255.255.255.0
gateway(config-if)#no shutdown
gateway(config-if)#exit
gateway(config)#ip route 192.168.2.0 255.255.255.0 192.168.1.2
gateway(config)#ip route 192.168.3.0 255.255.255.0 192.168.1.2
gateway(config)#

Ctrl+F6 to exit CLI focus
```

7. Routing – router jarkom



The screenshot shows the CLI of JARKOM. The configuration includes enabling the router, entering terminal configuration mode, setting the hostname to 'jarkom', configuring interface Serial2/0 with IP 192.168.1.2 and a 255.255.255.0 mask, and enabling it. Then, interface Serial3/0 is configured with IP 192.168.2.1 and a 255.255.255.0 mask, and enabled. Finally, two static routes are configured: 192.168.3.0/24 pointing to 192.168.2.2 and 192.168.3.0/24 pointing to 192.168.2.2. These two route commands are circled in blue.

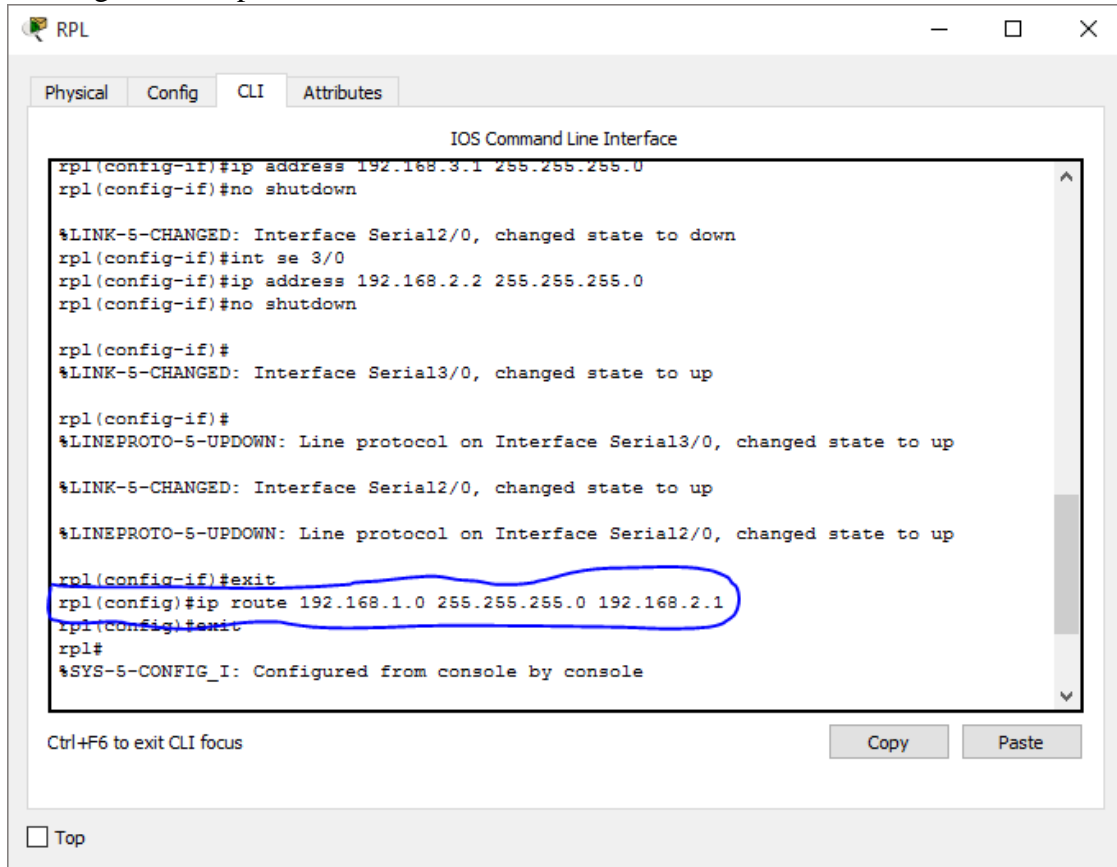
```
JARKOM
Physical Config CLI Attributes
IOS Command Line Interface
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

Router>enable
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname jarkom
jarkom(config)#int se 2/0
jarkom(config-if)#ip address 192.168.1.2 255.255.255.0
jarkom(config-if)#no shutdown
jarkom(config-if)#int se 3/0
jarkom(config-if)#clock rate 2000000
jarkom(config-if)#ip address 192.168.2.1 255.255.255.0
jarkom(config-if)#no shutdown
jarkom(config-if)#
%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up

jarkom(config-if)#ip route 192.168.3.0 255.255.255.0 192.168.2.2
jarkom(config)#ip route 192.168.3.0 255.255.255.0 192.168.2.2
jarkom(config)#

Ctrl+F6 to exit CLI focus
```

8. Routing – router rpl



The screenshot shows the RPL router configuration window with the CLI tab selected. The terminal displays the following commands and output:

```
rpl(config-if)#ip address 192.168.3.1 255.255.255.0
rpl(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial2/0, changed state to down
rpl(config-if)#int se 3/0
rpl(config-if)#ip address 192.168.2.2 255.255.255.0
rpl(config-if)#no shutdown

rpl(config-if)#
%LINK-5-CHANGED: Interface Serial3/0, changed state to up

rpl(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up

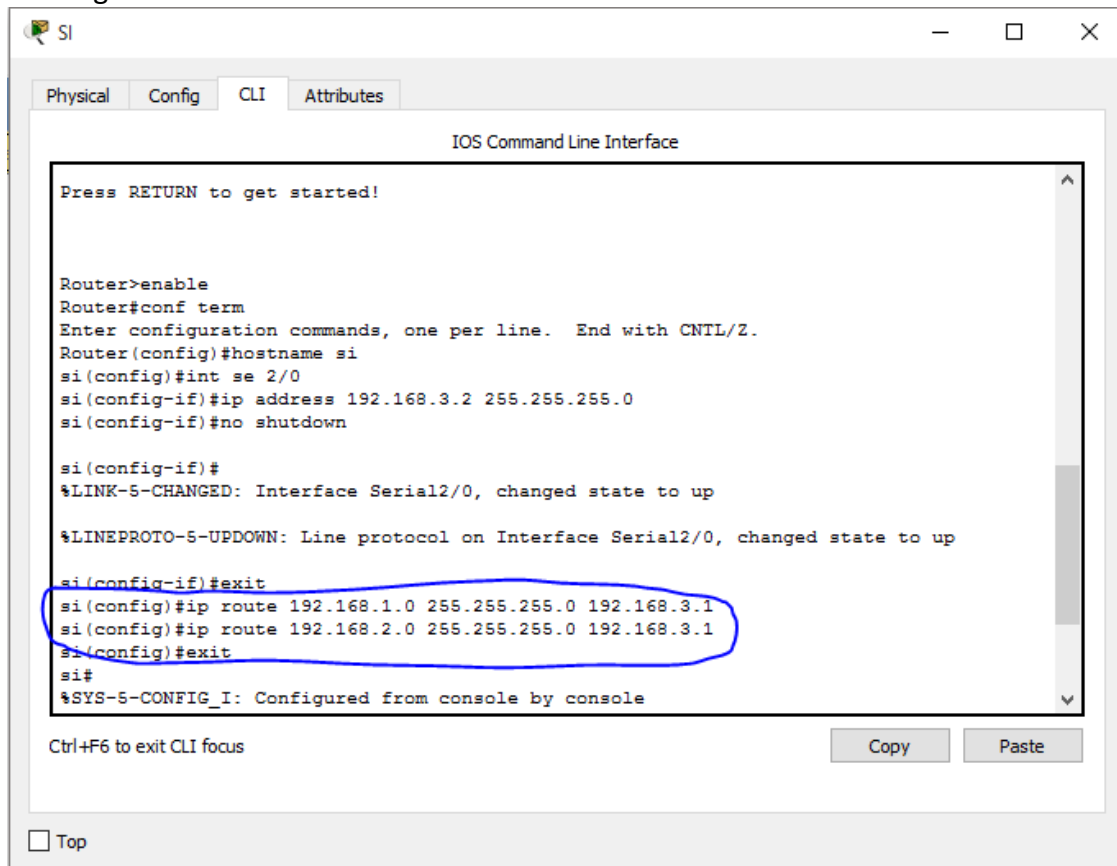
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

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

rpl(config-if)#exit
rpl(config)#ip route 192.168.1.0 255.255.255.0 192.168.2.1
rpl(config)#exit
rpl#
%SYS-5-CONFIG_I: Configured from console by console
```

Below the terminal window, there is a "Ctrl+F6 to exit CLI focus" message and "Copy" and "Paste" buttons. A "Top" button is located at the bottom left of the window.

9. Routing – router si



The screenshot shows the SI router configuration window with the CLI tab selected. The terminal displays the following commands and output:

```
Press RETURN to get started!

Router>enable
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname si
si(config)#int se 2/0
si(config-if)#ip address 192.168.3.2 255.255.255.0
si(config-if)#no shutdown

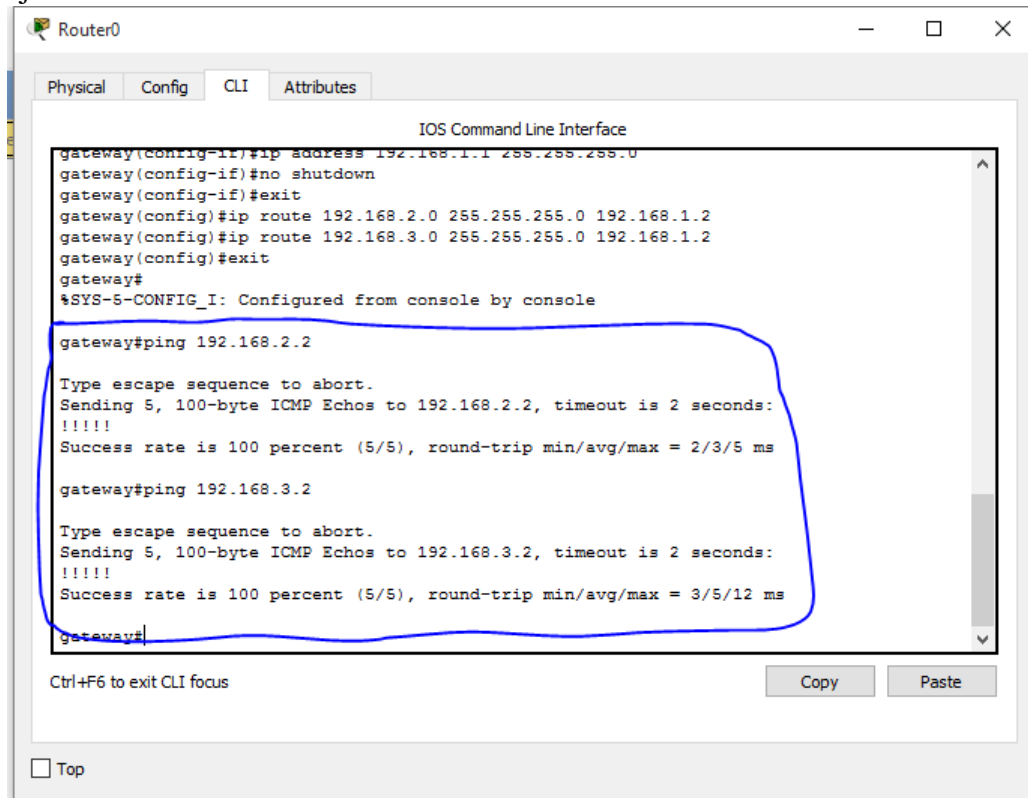
si(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

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

si(config-if)#exit
si(config)#ip route 192.168.1.0 255.255.255.0 192.168.3.1
si(config)#ip route 192.168.2.0 255.255.255.0 192.168.3.1
si(config)#exit
si#
%SYS-5-CONFIG_I: Configured from console by console
```

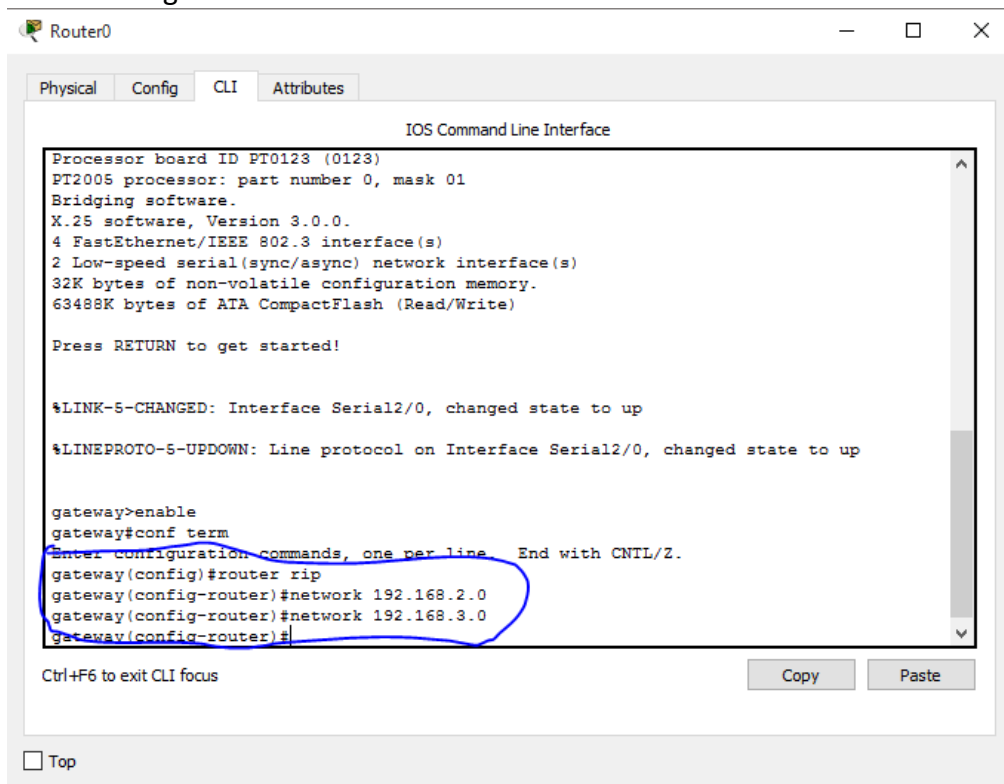
Below the terminal window, there is a "Ctrl+F6 to exit CLI focus" message and "Copy" and "Paste" buttons. A "Top" button is located at the bottom left of the window.

10. Uji konektivitas

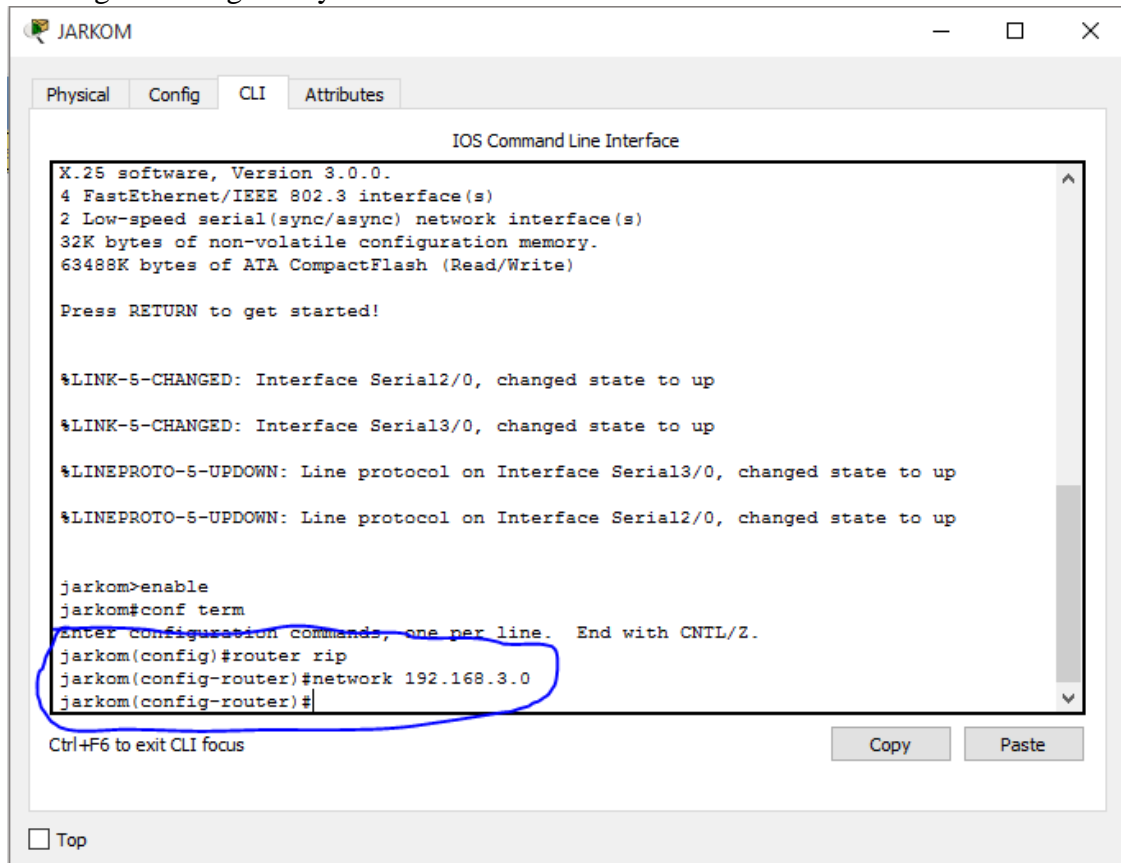


NOMOR 2 – DINAMIS (RIP)

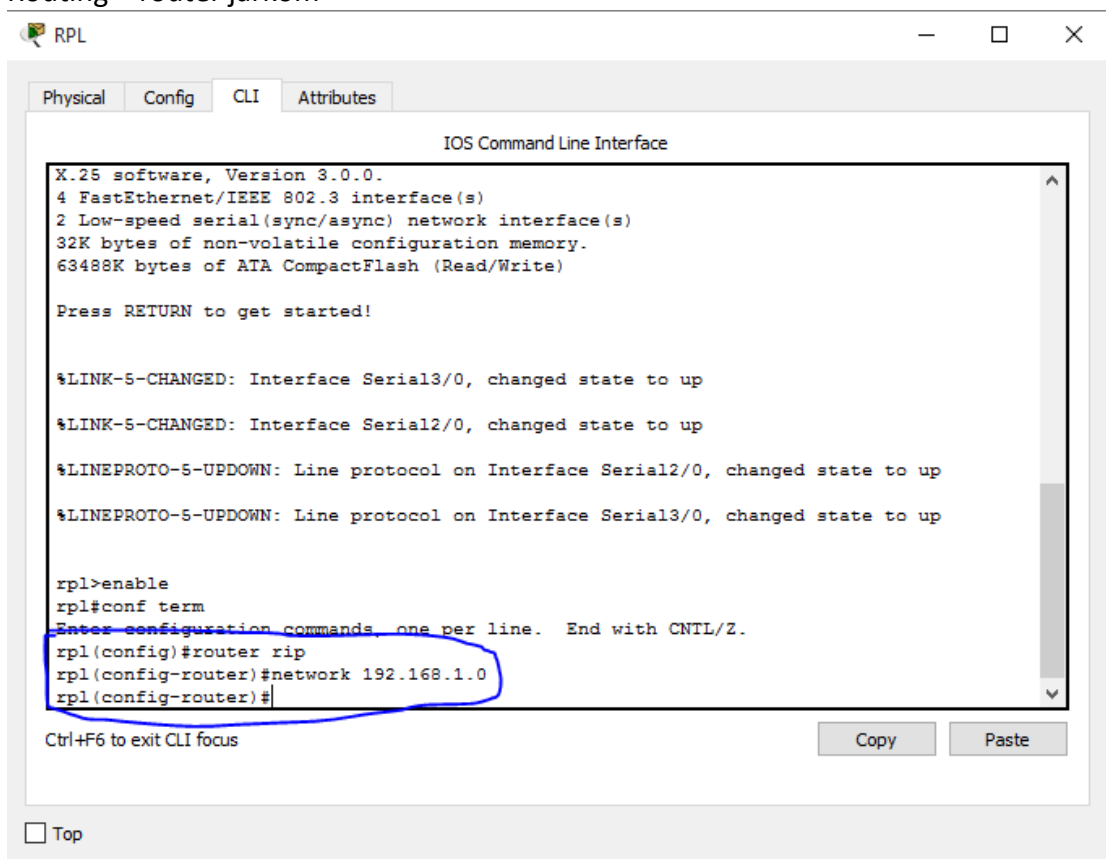
1. Desain Jaringan



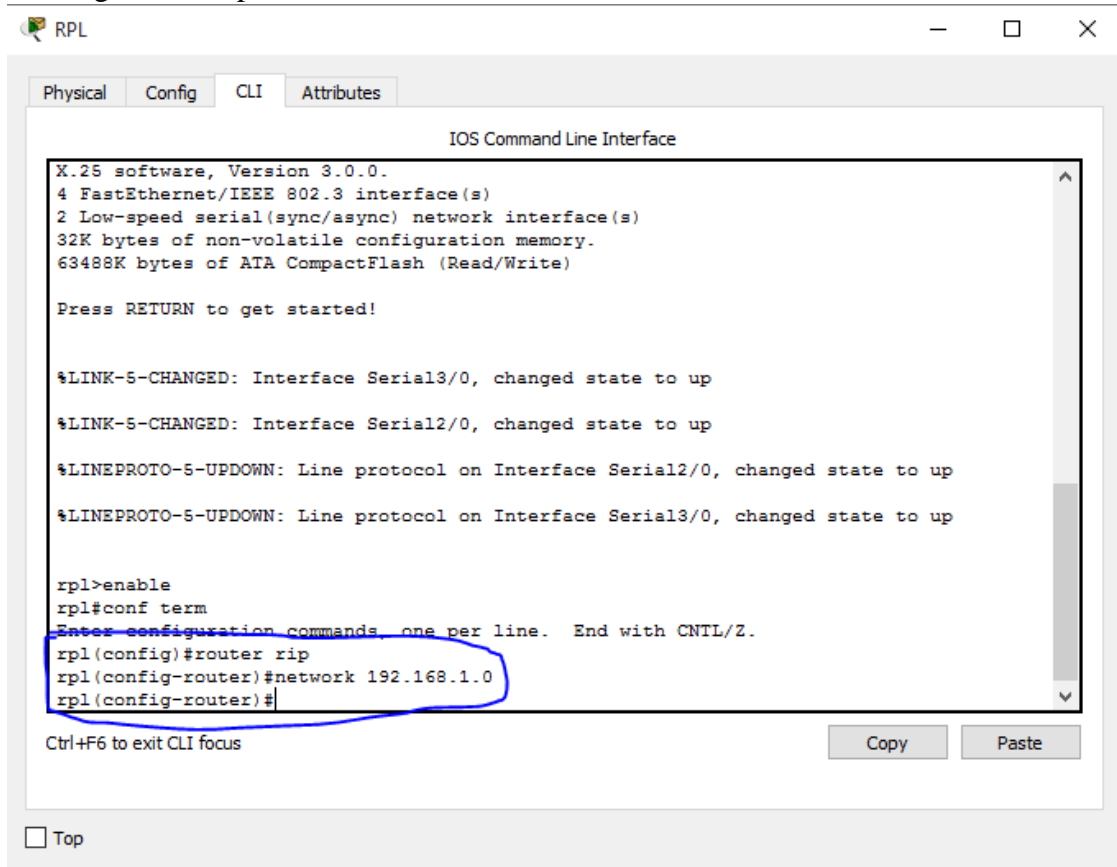
2. Routing – router gateway



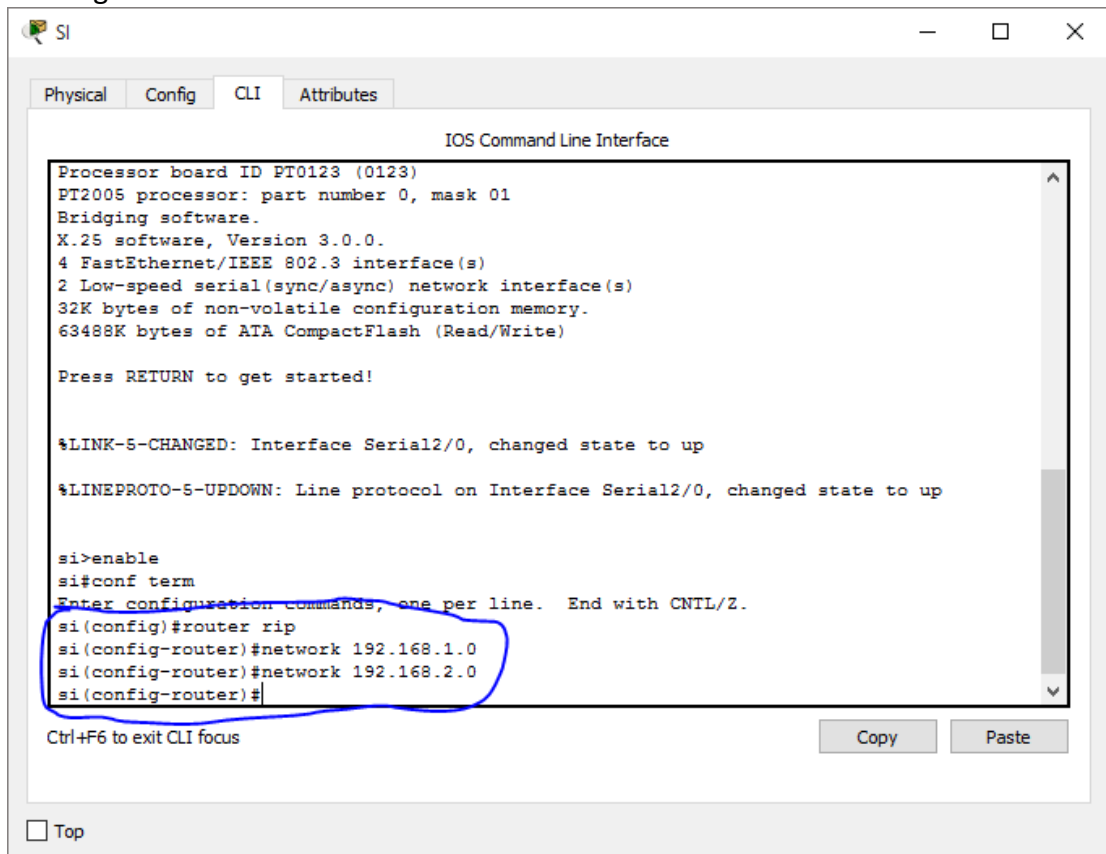
3. Routing – router jarkom



4. Routing – router rpl



5. Routing – router si



6. Uji konektivitas

