

In-Class Evaluation

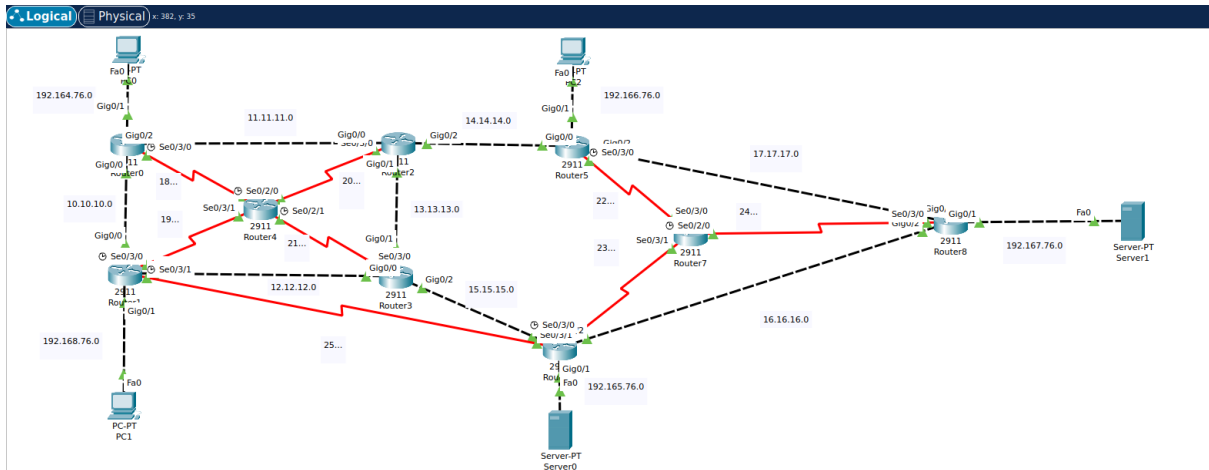
21_AIE_211

Introduction to Computer Networks– SEM-IV
Professor – Ganga Gowri

Submitted By: Vikhyat Bansal [CB.EN.U4AIE21076]

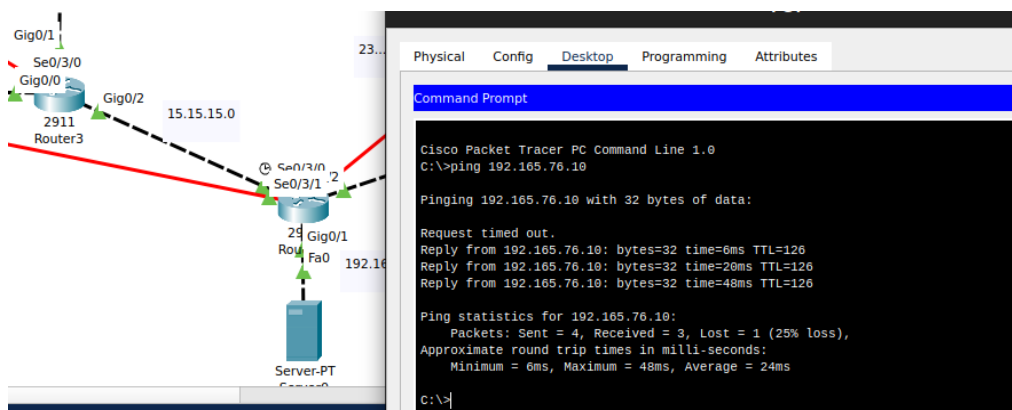


1. network from Cisco Packet tracer (CPT) [Dynamic Routing]

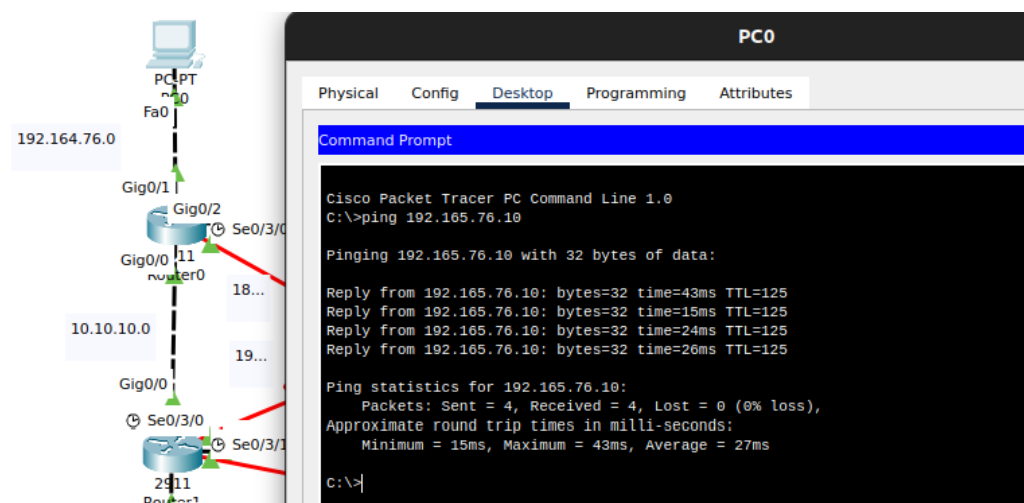


2. ping results from the client to the server, include all possible client to server connections. [Dynamic Routing]

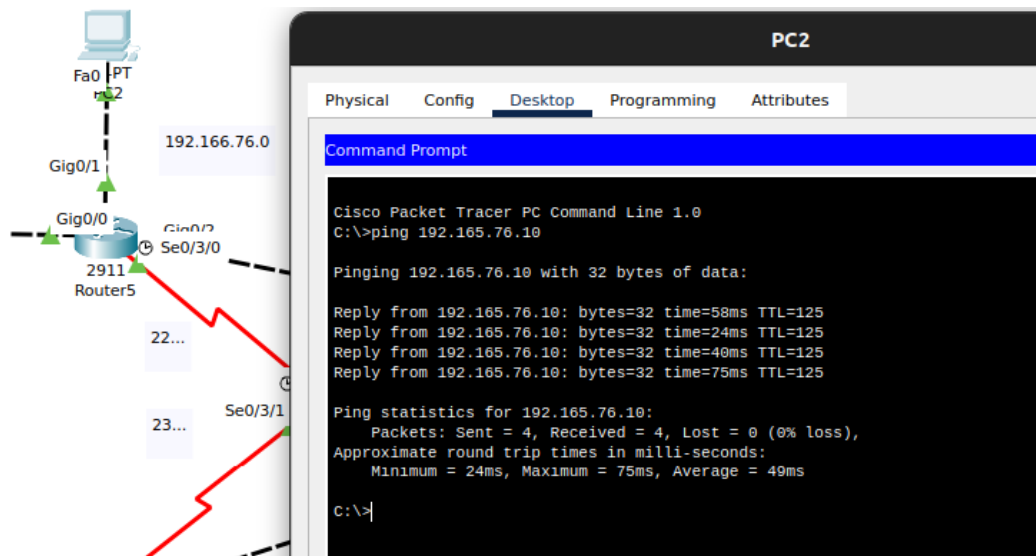
From PC-1 to Server-0



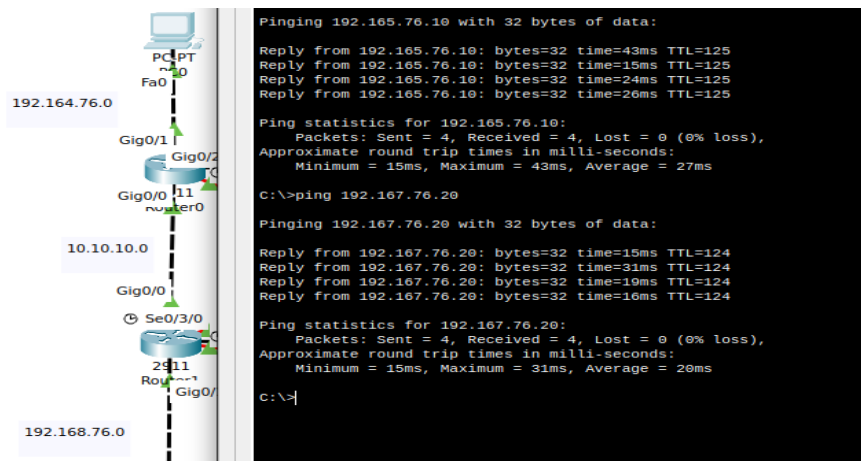
From PC-0 to Server-0



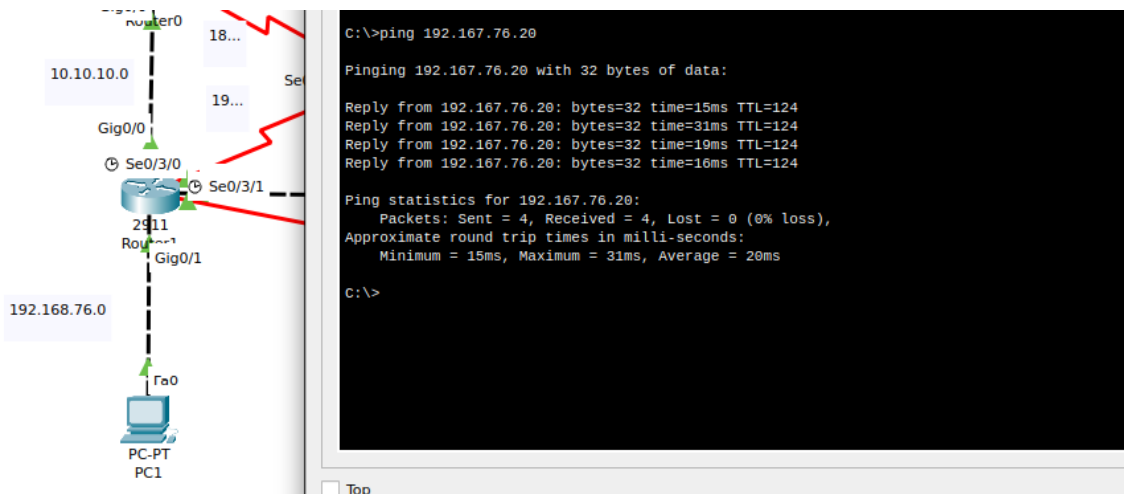
From PC-2 to Server-0



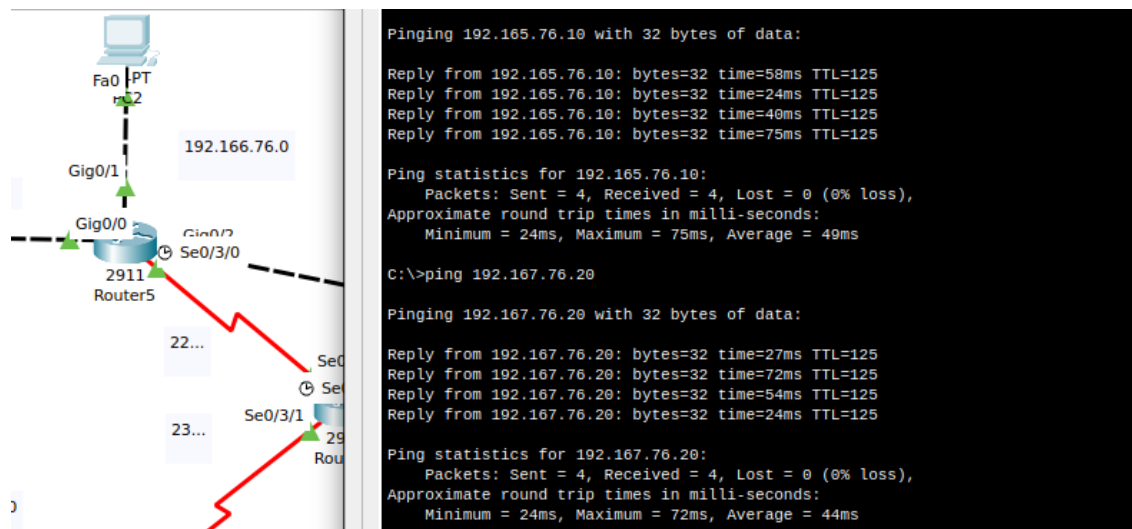
From PC-0 to Server-1



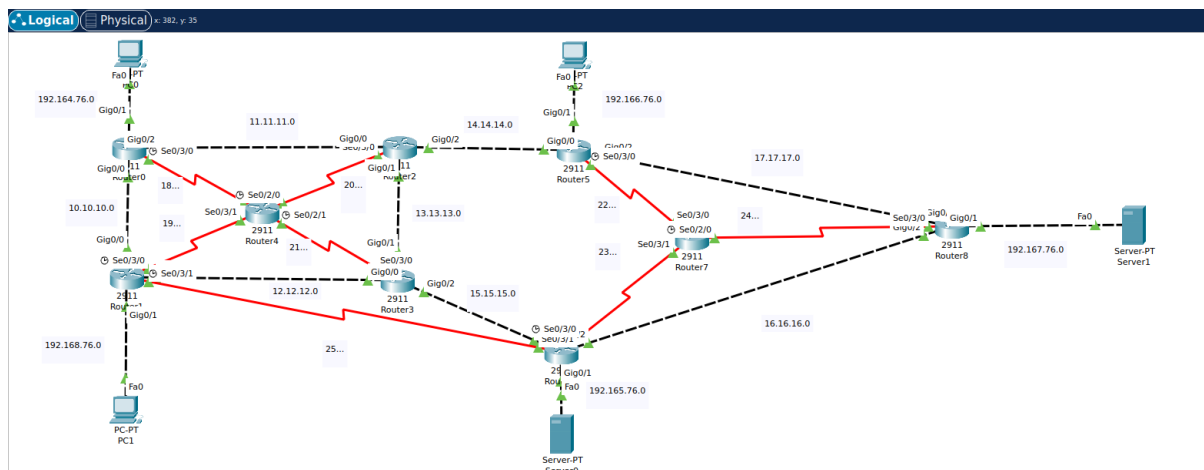
From PC-1 to Server-1



From PC-2 to Server-1

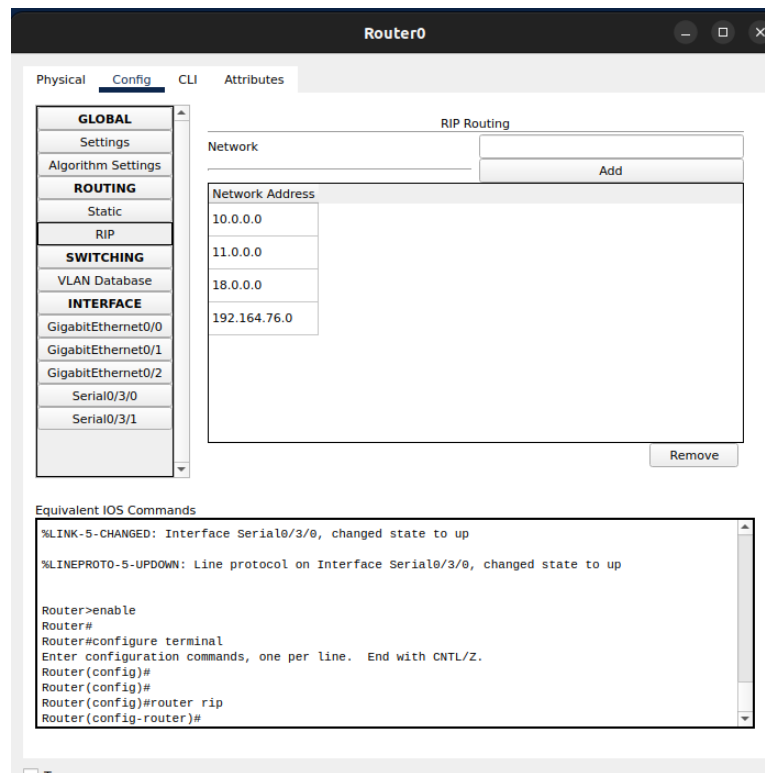


3. Include labels for IP address of end systems and subnets [Dynamic Routing]

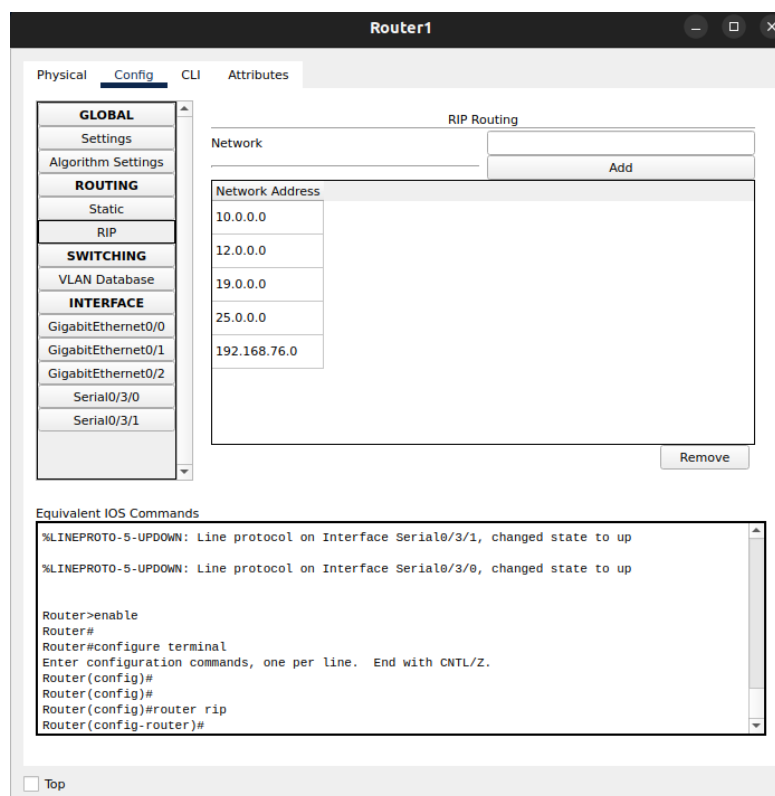


4. The screenshot of RIP routing of all router. [Only possible in-case of Dynamic Routing]

Router – 0



Router – 1



Router – 2

The screenshot shows the configuration window for Router2. The 'Config' tab is active, displaying a tree view on the left with categories: GLOBAL (Settings, Algorithm Settings), ROUTING (Static, RIP), SWITCHING (VLAN Database), and INTERFACE (GigabitEthernet0/0, GigabitEthernet0/1, GigabitEthernet0/2, Serial0/3/0, Serial0/3/1). The 'RIP Routing' section is expanded, showing a 'Network' field and an 'Add' button. Below this is a table of 'Network Address' entries: 11.0.0.0, 13.0.0.0, 14.0.0.0, and 20.0.0.0. A 'Remove' button is at the bottom right. The 'Equivalent IOS Commands' section at the bottom contains the following text:

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to up
%LINK-5-CHANGED: Interface Serial0/3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/3/0, changed state to up

Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#
```

A 'Top' button is located at the bottom left of the configuration area.

Router - 3

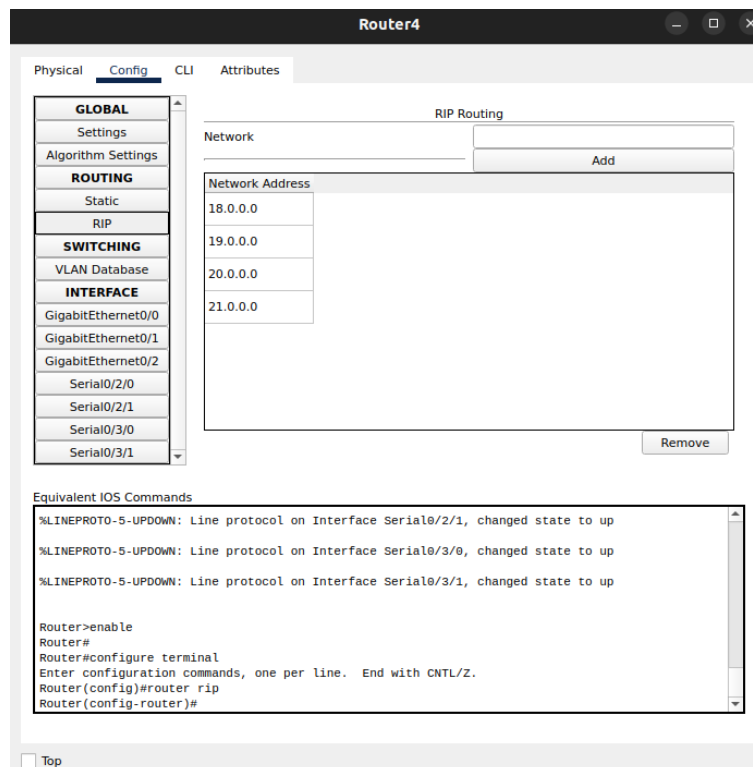
The screenshot shows the configuration window for Router3. The 'Config' tab is active, displaying a tree view on the left with categories: GLOBAL (Settings, Algorithm Settings), ROUTING (Static, RIP), SWITCHING (VLAN Database), and INTERFACE (GigabitEthernet0/0, GigabitEthernet0/1, GigabitEthernet0/2, Serial0/3/0, Serial0/3/1). The 'RIP Routing' section is expanded, showing a 'Network' field and an 'Add' button. Below this is a table of 'Network Address' entries: 12.0.0.0, 13.0.0.0, 15.0.0.0, and 21.0.0.0. A 'Remove' button is at the bottom right. The 'Equivalent IOS Commands' section at the bottom contains the following text:

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to up
%LINK-5-CHANGED: Interface Serial0/3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/3/0, changed state to up

Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#
```

A 'Top' button is located at the bottom left of the configuration area.

Router – 4



Router4

Physical **Config** CLI Attributes

GLOBAL

- Settings
- Algorithm Settings

ROUTING

- Static
- RIP**

SWITCHING

- VLAN Database

INTERFACE

- GigabitEthernet0/0
- GigabitEthernet0/1
- GigabitEthernet0/2
- Serial0/2/0
- Serial0/2/1
- Serial0/3/0
- Serial0/3/1

RIP Routing

Network

Add

Network Address

- 18.0.0.0
- 19.0.0.0
- 20.0.0.0
- 21.0.0.0

Remove

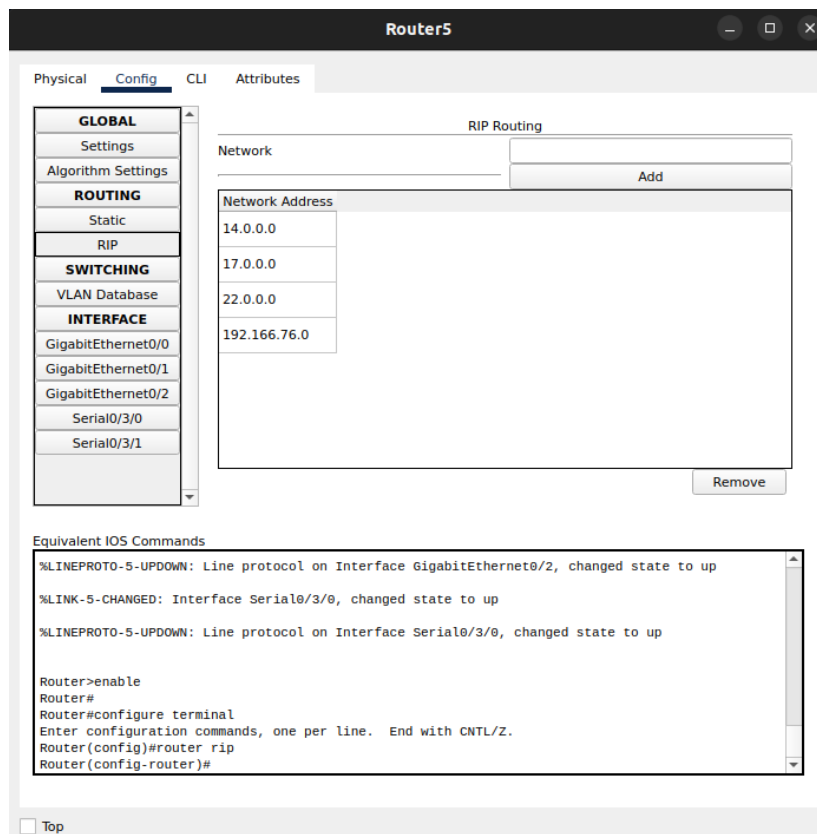
Equivalent IOS Commands

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/2/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/3/1, changed state to up

Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#
```

☐ Top

Router – 5



Router5

Physical **Config** CLI Attributes

GLOBAL

- Settings
- Algorithm Settings

ROUTING

- Static
- RIP**

SWITCHING

- VLAN Database

INTERFACE

- GigabitEthernet0/0
- GigabitEthernet0/1
- GigabitEthernet0/2
- Serial0/3/0
- Serial0/3/1

RIP Routing

Network

Add

Network Address

- 14.0.0.0
- 17.0.0.0
- 22.0.0.0
- 192.166.76.0

Remove

Equivalent IOS Commands

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to up
%LINK-5-CHANGED: Interface Serial0/3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/3/0, changed state to up

Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#
```

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Router – 6

Router6

Physical **Config** CLI Attributes

GLOBAL

- Settings
- Algorithm Settings

ROUTING

- Static
- RIP**

SWITCHING

- VLAN Database

INTERFACE

- GigabitEthernet0/0
- GigabitEthernet0/1
- GigabitEthernet0/2
- FastEthernet0/2/0
- FastEthernet0/2/1
- FastEthernet0/2/2
- FastEthernet0/2/3

RIP Routing

Network

Add

Network Address

- 15.0.0.0
- 16.0.0.0
- 23.0.0.0
- 25.0.0.0
- 192.165.76.0

Remove

Equivalent IOS Commands

```
%LINK-5-CHANGED: Interface Serial0/3/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/3/1, changed state to up

Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#
```

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Router – 7

Router7

Physical **Config** CLI Attributes

GLOBAL

- Settings
- Algorithm Settings

ROUTING

- Static
- RIP**

SWITCHING

- VLAN Database

INTERFACE

- GigabitEthernet0/0
- GigabitEthernet0/1
- GigabitEthernet0/2
- Serial0/2/0
- Serial0/2/1
- Serial0/3/0
- Serial0/3/1

RIP Routing

Network

Add

Network Address

- 22.0.0.0
- 23.0.0.0
- 24.0.0.0

Remove

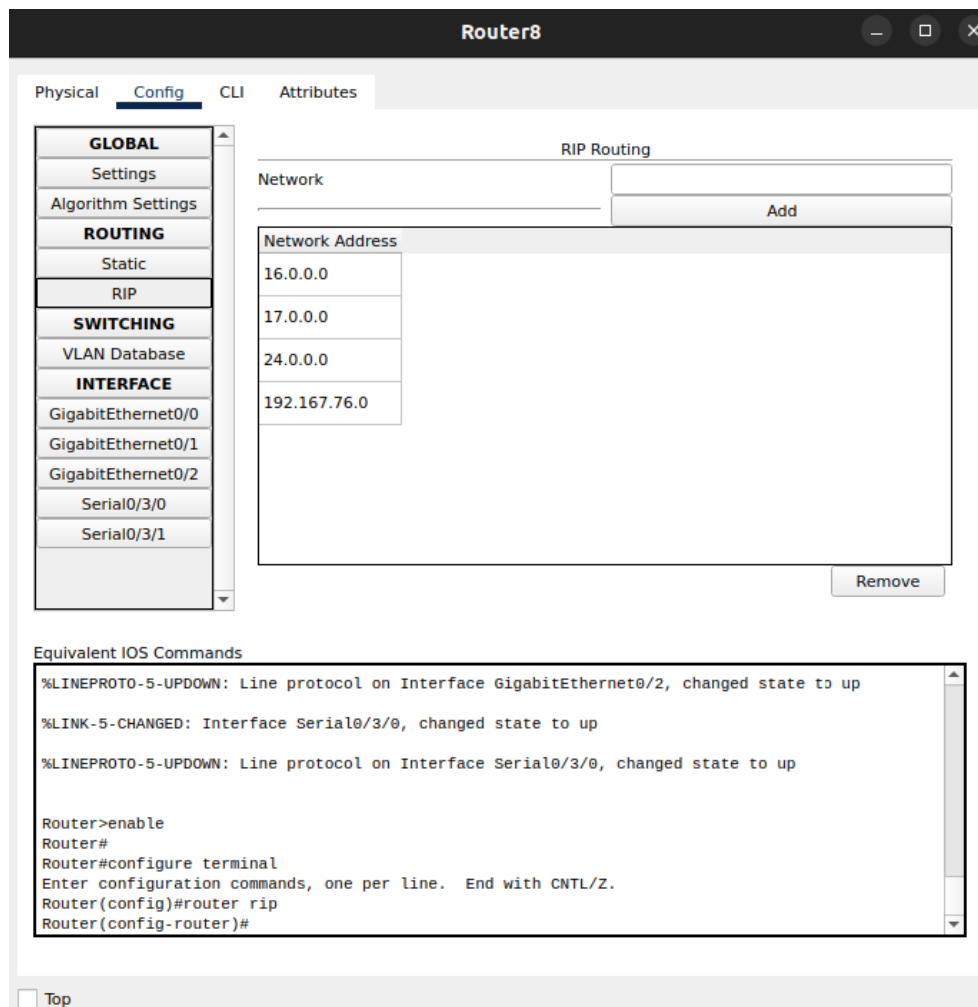
Equivalent IOS Commands

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/3/1, changed state to up

Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#
```

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Router – 8



Link to Dynamic and Static Packet tracer file (Click on the link to download the file)

Dynamic - [Eval Dynamic.pkt](#)

Static - [Eval Static.pkt](#)

THANK YOU!!