



CCNA 1&2

Practical Lab

Second Semester

Third Stage

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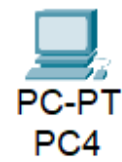
Switch



Router

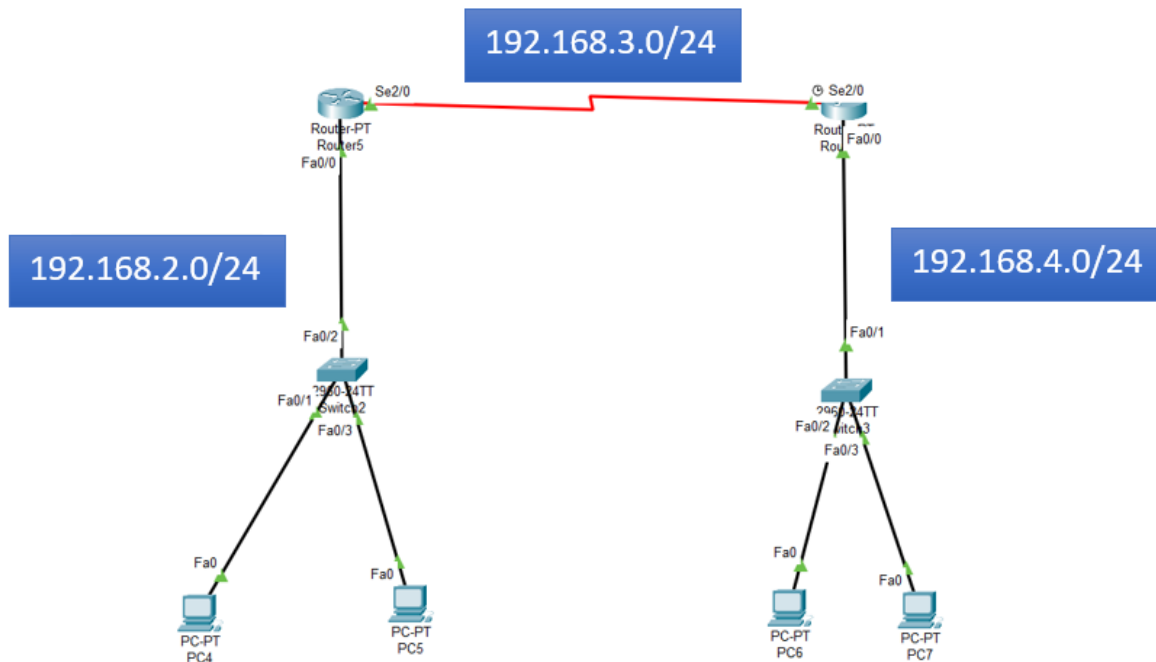


Personal Computer



LAB One

1. RIP Routing



1. Assign an **IP Address** to the router.

Answer

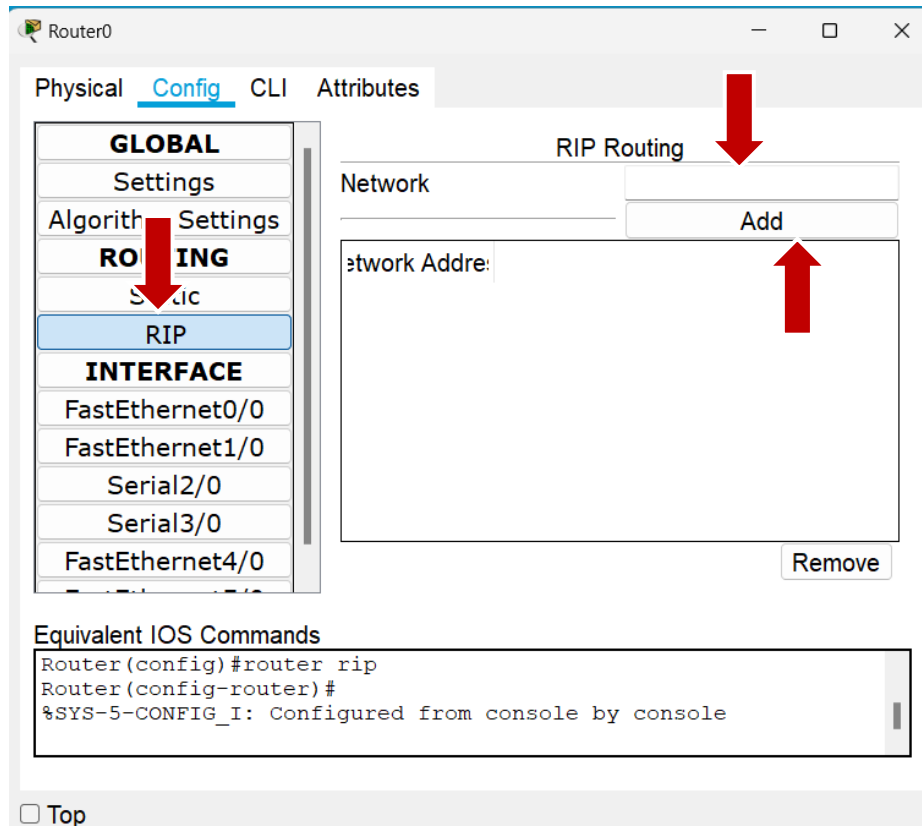
Left Router ➡ F0/0 192.168.2.1
S2/0 192.168.3.1

Right Router ➡ F0/0 192.168.4.1
S2/0 192.168.3.2

2. Configure **RIP** on a Cisco router.

Answer

- **Left Router**



Router0

Physical

Config

CLI

Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

INTERFACE

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

RIP Routing

Network

Network Address

192.168.2.0

192.168.3.0

Add

Remove

Equivalent IOS Commands

%SYS-5-CONFIG I: Configured from console by console

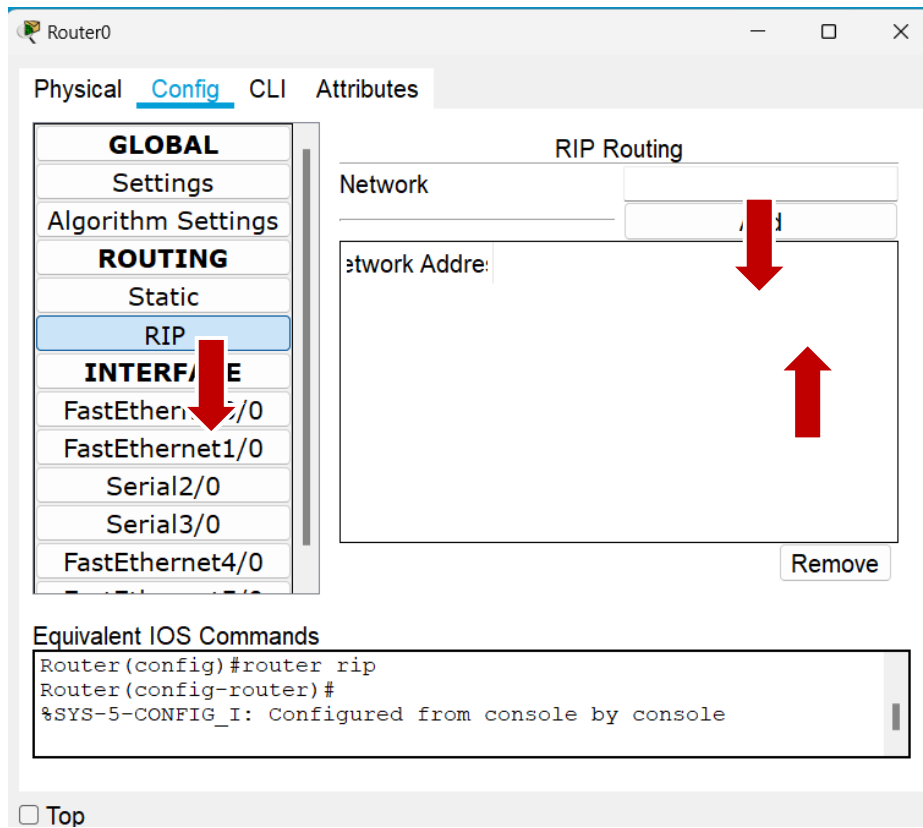
network 192.168.2.0

Router(config-router)#network 192.168.3.0

Router(config-router)#

Top

- Right Router



Router1

Physical Config CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

INTERFACE

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

RIP Routing

Network

Add

Network Address:

192.168.3.0

192.168.4.0

Remove

Equivalent IOS Commands

```
Router(config)#router rip
Router(config-router)#network 192.168.3.0
Router(config-router)#network 192.168.4.0
Router(config-router)#
```

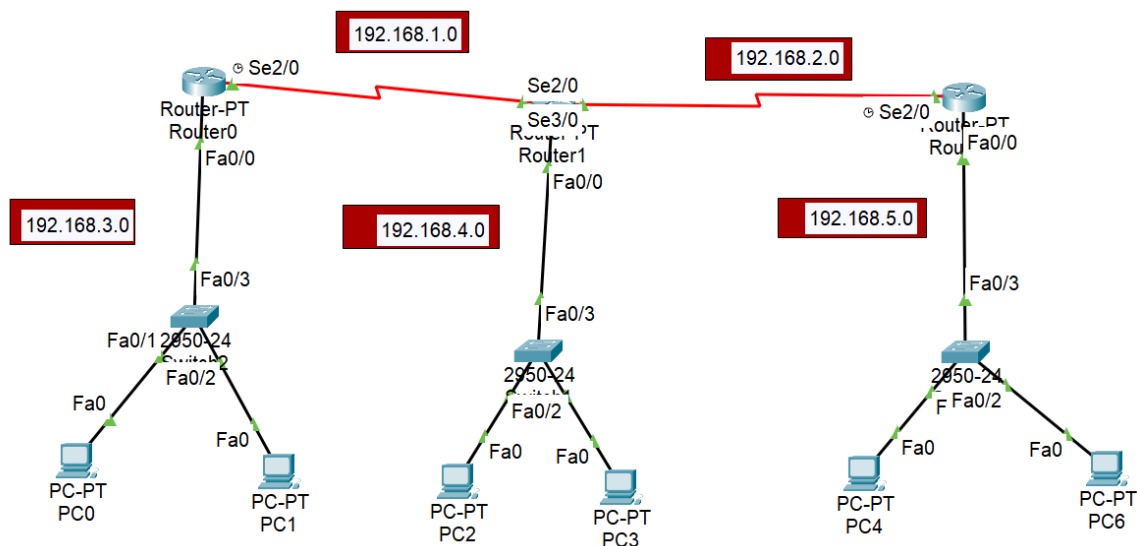
☐ Top

Answer

Left Router ➡ RIP ➡ 192.168.2.0 ➡ Add ➡ 192.168.3.0 ➡ Add

Right Router ➡ RIP ➡ 192.168.3.0 ➡ Add ➡ 192.168.4.0 ➡ Add

LAB Two



1. Assign an **IP Address** to the router.

Answer

Left Router ➡ F0/0 192.168.3.1
S2/0 192.168.1.1

Center Router ➡ F0/0 192.168.4.1
S2/0 192.168.1.2
S3/0 192.168.2.1

Right Router ➡ F0/0 192.168.5.1
S2/0 192.168.2.2

2. Configure **RIP** on a Cisco router.

Answer

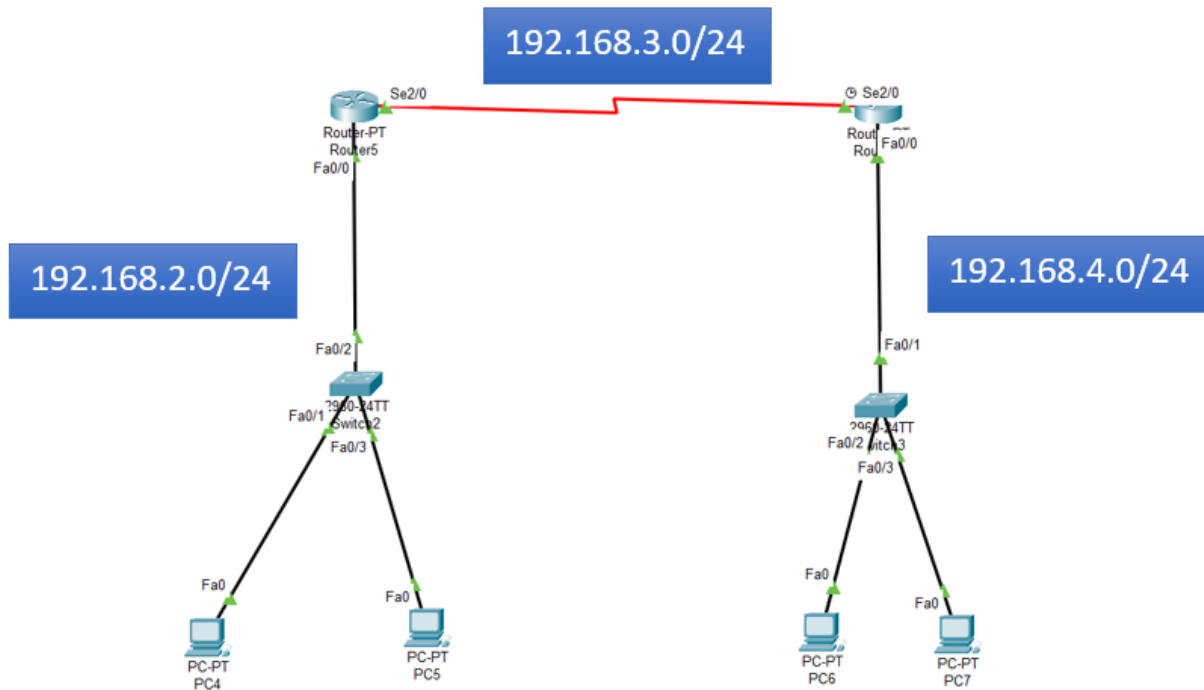
Left Router ➡ RIP ➡ 192.168.3.0 ➡ Add ➡ 192.168.1.0 ➡ Add

Center Router ➡ RIP ➡ 192.168.1.0 ➡ Add ➡ 192.168.2.0 ➡ Add
➡ 192.168.4.0 ➡ Add

Right Router ➡ RIP ➡ 192.168.2.0 ➡ Add ➡ 192.168.5.0 ➡ Add

LAB Three

2. Static Routing



1. Assign an **IP Address** to the router.

Answer

Left Router ➡ F0/0 192.168.2.1
S2/0 192.168.3.1

Right Router ➡ F0/0 192.168.4.1
S2/0 192.168.3.2

2. Configure **Static** on a Cisco router.

Answer

- **Left Router**

The screenshot shows the configuration window for Router3 in Cisco Packet Tracer. The 'Config' tab is selected, and the 'Static' option under the 'ROUTING' section is highlighted. The 'Static Routes' configuration area shows the following fields: Network (192.168.4.0), Mask (255.255.255.0), and Next Hop (192.168.3.2). An 'Add' button is present. Below this, there is a 'Network Address' field and a 'Remove' button. At the bottom, the 'Equivalent IOS Commands' section shows the commands: Router(config)# ip route 192.168.4.0 255.255.255.0 192.168.3.2. A 'Top' button is at the bottom left.

Router3

Physical **Config** CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

INTERFACE

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

Static Routes

Network 192.168.4.0

Mask 255.255.255.0

Next Hop 192.168.3.2

Add

Network Address

Remove

Equivalent IOS Commands

```
per line. End with CNTL/Z.  
Router(config)#  
Router(config)#
```

☐ Top

- Right Router

Router4

Physical Config CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

INTERFACE

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

Static Routing

Network 192.168.2.0

Mask 255.255.255.0

Next Hop 192.168.3.1

Add

Network Address

Remove

Equivalent IOS Commands

per line. End with CNTL/Z.

Router(config) #

Router(config) #

☐ Top

Answer

Left Router:

Network:192.168.4.0

Mask:255.255.255.0

Next Hop:192.168.3.2

Right Router:

Network:192.168.2.0

Mask:255.255.255.0

Next Hop:192.168.3.1