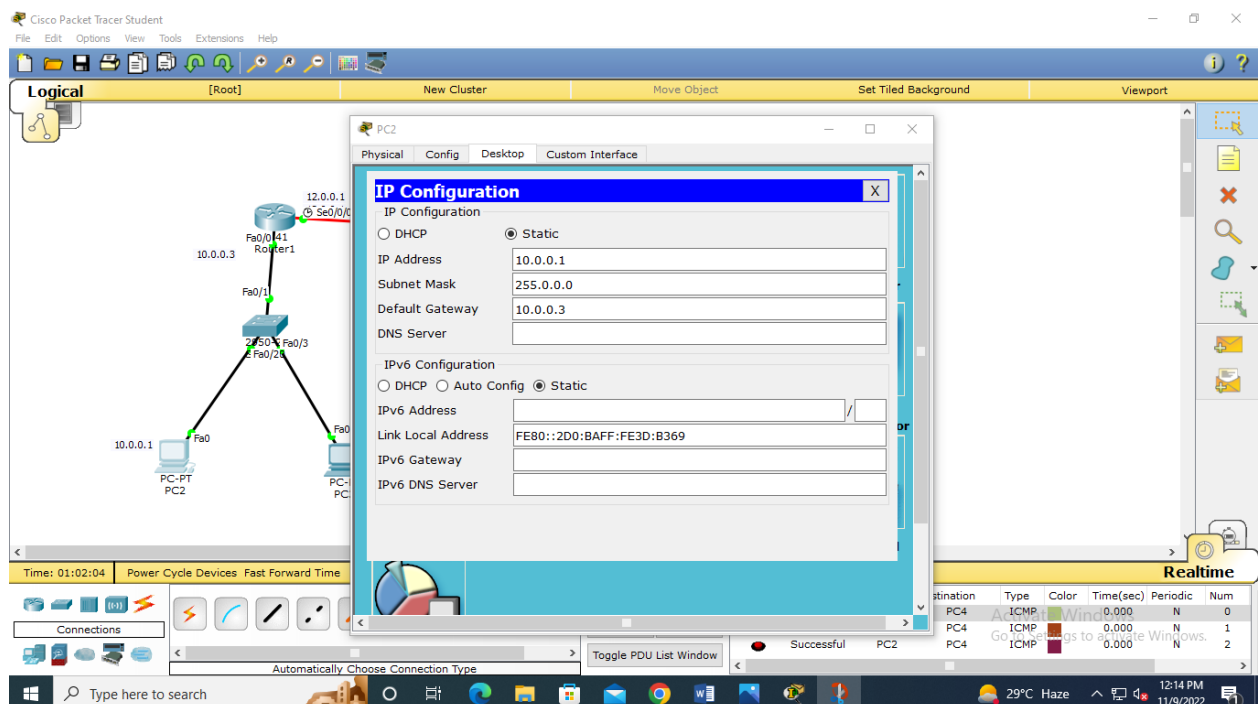
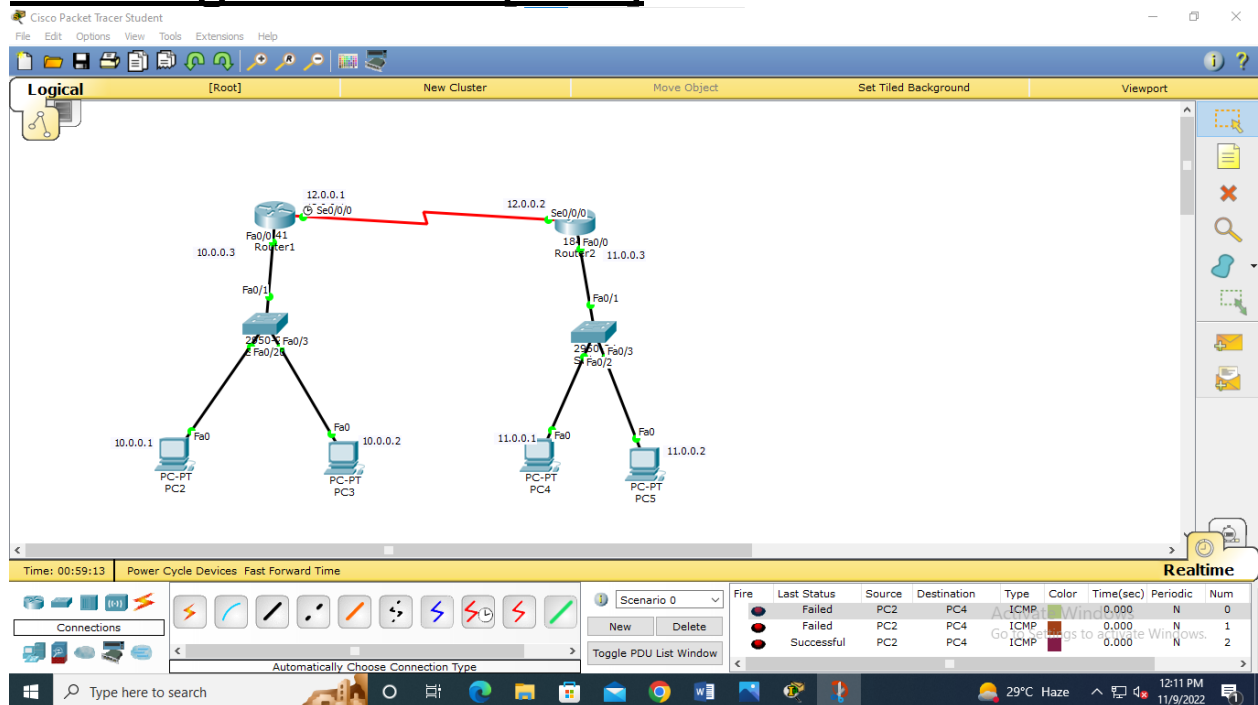


# Routing Protocol [RIP] {Screenshot's}



Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logical [Root] New Cluster Move Object Set Tiled Background Viewport

Router1

Physical Config CLI

MODULES

- HWIC-2T
- HWIC-4ESW
- HWIC-8A
- HWIC-AP-AG-B
- WIC-1AM
- WIC-1ENET
- WIC-1T
- WIC-2AM
- WIC-2T
- WIC-Cover

Physical Device View

Zoom In Original Size Zoom Out

Customize Icon in Physical View Customize Icon in Logical View

The dual-serial port WAN interface cards (WICs) feature Cisco's new, compact, high-density Smart Serial connector to support a wide variety of electrical interfaces when used with the appropriate transition cable. Two cables are required to support the two ports on the WIC. Each port on the WIC is a different physical interface, so...

Time: 01:00:44 Power Cycle Devices Fast Forward Time

Connections

Automatically Choose Connection Type Toggle PDU List Window

Successful PC2

Realtime

Destination	Type	Color	Time(sec)	Periodic	Num
PC4	ICMP		0.000	N	0
PC4	ICMP		0.000	N	1
PC4	ICMP		0.000	N	2

Type here to search

29°C Haze 12:13 PM 11/9/2022

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logical [Root] New Cluster Move Object Set Tiled Background Viewport

Router1

Physical Config CLI

GLOBAL

- Settings
- Algorithm Settings
- ROUTING
- Static
- RIP
- SWITCHING
- VLAN Database
- INTERFACE

FastEthernet0/0

Port Status ☒ On

Bandwidth ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0040.0BC4.E701

IP Configuration

IP Address 10.0.0.3

Subnet Mask 255.0.0.0

Tx Ring Limit 10

Equivalent IOS Commands

```
Router#
Router#configure terminal
Enter configuration commands, one per line. End with
CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#
```

Time: 01:01:34 Power Cycle Devices Fast Forward Time

Connections

Automatically Choose Connection Type Toggle PDU List Window

Successful PC2

Realtime

Destination	Type	Color	Time(sec)	Periodic	Num
PC4	ICMP		0.000	N	0
PC4	ICMP		0.000	N	1
PC4	ICMP		0.000	N	2

Type here to search

29°C Haze 12:14 PM 11/9/2022

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logical [Root] New Cluster Move Object Set Tiled Background Viewport

Router1

Physical Config CLI

GLOBAL

- Settings
- Algorithm Settings
- ROUTING
- Static
- RIP
- SWITCHING
- VLAN Database
- INTERFACE

Serial0/0/0

Port Status ☒ On

Duplex ☒ Full Duplex

Clock Rate 9600

IP Configuration

IP Address 12.0.0.1

Subnet Mask 255.0.0.0

Tx Ring Limit 10

Equivalent IOS Commands

```
CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#
```

Time: 01:02:51 Power Cycle Devices Fast Forward Time

Connections

Automatically Choose Connection Type Toggle PDU List Window

Successful PC2

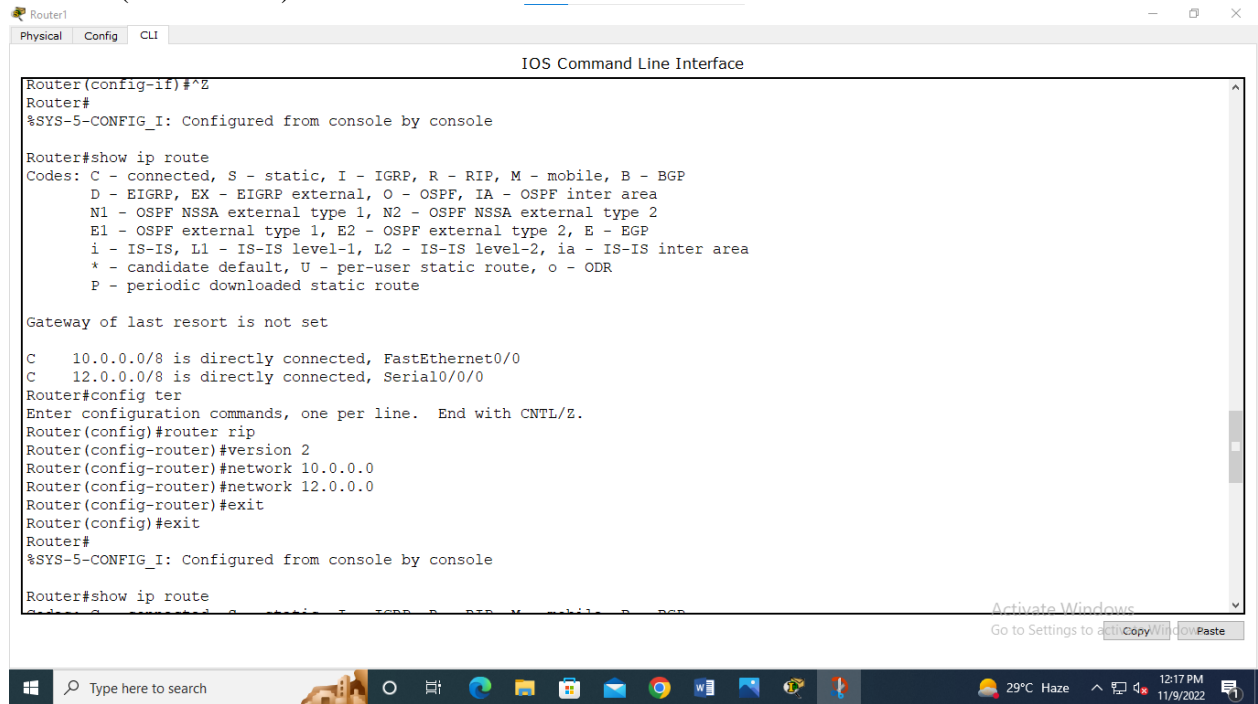
Realtime

Destination	Type	Color	Time(sec)	Periodic	Num
PC4	ICMP		0.000	N	0
PC4	ICMP		0.000	N	1
PC4	ICMP		0.000	N	2

Type here to search

29°C Haze 12:15 PM 11/9/2022

## Router 1 (RIP Protocol)



The screenshot shows the IOS Command Line Interface for Router1. The user enters the command `Router(config-if)#^Z` to exit configuration mode. The prompt returns to `Router#`. The user then enters `%SYS-5-CONFIG_I: Configured from console by console`. Next, the user enters `Router#show ip route`. The output shows the routing table with codes for various protocols: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP, D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area, N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2, E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP, i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area, \* - candidate default, U - per-user static route, o - ODR, P - periodic downloaded static route. The output also shows the gateway of last resort is not set. The routing table shows two directly connected networks: `C 10.0.0.0/8 is directly connected, FastEthernet0/0` and `C 12.0.0.0/8 is directly connected, Serial0/0/0`. The user then enters `Router#config ter` to enter configuration mode. The prompt returns to `Router(config)#`. The user enters `router rip`, `version 2`, `network 10.0.0.0`, `network 12.0.0.0`, and `exit`. The prompt returns to `Router#`. The user enters `%SYS-5-CONFIG_I: Configured from console by console`. Finally, the user enters `Router#show ip route` again, showing the same routing table output as before.

```
Router1
Physical Config CLI
IOS Command Line Interface

Router(config-if)#^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

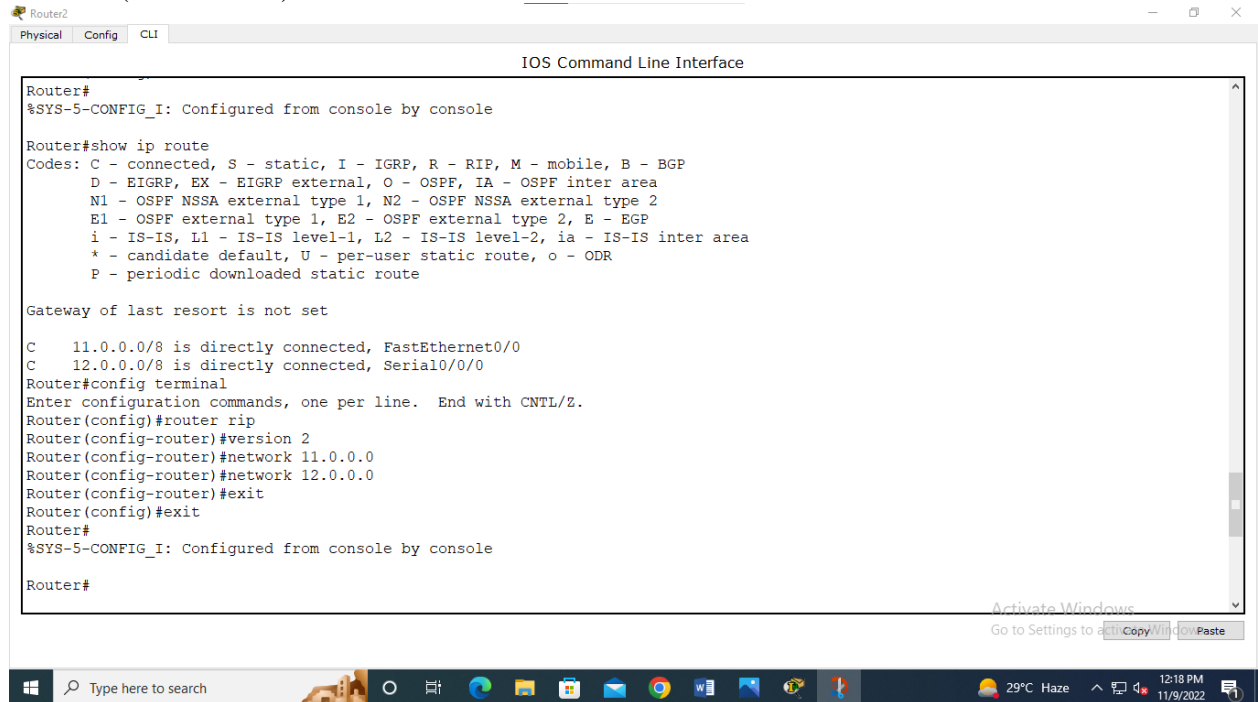
C 10.0.0.0/8 is directly connected, FastEthernet0/0
C 12.0.0.0/8 is directly connected, Serial0/0/0
Router#config ter
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#version 2
Router(config-router)#network 10.0.0.0
Router(config-router)#network 12.0.0.0
Router(config-router)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

C 10.0.0.0/8 is directly connected, FastEthernet0/0
C 12.0.0.0/8 is directly connected, Serial0/0/0
Router#
```

## Router 2 (RIP Protocol)



The screenshot shows the IOS Command Line Interface for Router2. The user enters the command `Router#`. The prompt returns to `Router#`. The user then enters `%SYS-5-CONFIG_I: Configured from console by console`. Next, the user enters `Router#show ip route`. The output shows the routing table with codes for various protocols: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP, D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area, N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2, E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP, i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area, \* - candidate default, U - per-user static route, o - ODR, P - periodic downloaded static route. The output also shows the gateway of last resort is not set. The routing table shows two directly connected networks: `C 11.0.0.0/8 is directly connected, FastEthernet0/0` and `C 12.0.0.0/8 is directly connected, Serial0/0/0`. The user then enters `Router#config terminal` to enter configuration mode. The prompt returns to `Router(config)#`. The user enters `router rip`, `version 2`, `network 11.0.0.0`, `network 12.0.0.0`, and `exit`. The prompt returns to `Router#`. The user enters `%SYS-5-CONFIG_I: Configured from console by console`. Finally, the user enters `Router#`.

```
Router2
Physical Config CLI
IOS Command Line Interface

Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

C 11.0.0.0/8 is directly connected, FastEthernet0/0
C 12.0.0.0/8 is directly connected, Serial0/0/0
Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#version 2
Router(config-router)#network 11.0.0.0
Router(config-router)#network 12.0.0.0
Router(config-router)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
```

## Router 1 to Router 2 (RIP Protocol)

