

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logical [Root]

Router1

Physical Config CLI

IOS Command Line Interface

Press RETURN to get started!

```
Router>enable
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface Fa0/0
Router(config-if)#ip address 20.0.0.2 255.0.0.0
Router(config-if)#no shut
Router(config-if)#

Router(config-if)#
%LINE-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)#exit
Router(config)#interface Se2/0
Router(config-if)#ip address 60.0.0.2 255.0.0.0
Router(config-if)#no shut
Router(config-if)#

Router(config-if)#
%LINE-5-CHANGED: Interface Serial2/0, changed state to down
Router(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
```

Copy Paste

Time: 01:11:09 Power Cycle Devices Fast Forward Time

Connections

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(se-Periodic Num Edit Delete

Realtime

19:48 14-07-2023

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logical [Root]

Router1

Physical Config CLI

IOS Command Line Interface

```
Router>enable
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
F - periodic downloaded static route
Gateway of last resort is not set

C 20.0.0.0/8 is directly connected, FastEthernet0/0
C 60.0.0.0/8 is directly connected, Serial2/0
Router#
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 0.0.0.0 0.0.0.0 40.0.0.1
Router(config)#exit
Router#
RST5-5-CONFIG_1: Configured from console by console
Router#
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
F - periodic downloaded static route
Gateway of last resort is 40.0.0.1 to network 0.0.0.0
```

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Time: 01:11:38 Power Cycle Devices Fast Forward Time

Connections

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(se-Periodic Num Edit Delete

Realtime

19:48 14-07-2023

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logical [Root]

Router1

Physical Config CLI

IOS Command Line Interface

```
Gateway of last resort is 60.0.0.1 to network 0.0.0.0
* 0.0.0.0/0 is subnetted, 1 subnets
S* 0.0.0.0 [1/0] via 60.0.0.1
C 20.0.0.0/8 is directly connected, FastEthernet0/0
C 40.0.0.0/8 is directly connected, Serial2/0
Router#show ip route
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 0.0.0.0 255.0.0.0 60.0.0.1
Router(config)#exit
Router#
RSTP-5-CONFIG_1: Configured from console by console

Router#show ip route
Codes: C - connected, S - static, I - ISRP, 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
* - candidate default, U - per-user static route, o - ODR
F - periodic downloaded static route

Gateway of last resort is not set
C 20.0.0.0/8 is directly connected, FastEthernet0/0
C 40.0.0.0/8 is directly connected, Serial2/0
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 0.0.0.0 255.0.0.0 60.0.0.1
Router(config)#exit
RSTP-5-CONFIG_1: Configured from console by console
```

Copy Paste

Time: 01:11:47 Power Cycle Devices Fast Forward Time

Scenario 0

Fire Last Status Source Destination Type Color Time(se-Periodic Num Edit Delete

Connections

Automatically Choose Connection Type

Toggle PDU List Window

ENG IN 19:48 14-07-2023

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logical [Root]

Router1

Physical Config CLI

IOS Command Line Interface

```
RSTP-5-CONFIG_1: Configured from console by console

Router#show ip route
Codes: C - connected, S - static, I - ISRP, 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
* - candidate default, U - per-user static route, o - ODR
F - periodic downloaded static route

Gateway of last resort is 60.0.0.1 to network 0.0.0.0
* 0.0.0.0/0 is subnetted, 1 subnets
S* 0.0.0.0 [1/0] via 60.0.0.1
C 20.0.0.0/8 is directly connected, FastEthernet0/0
C 40.0.0.0/8 is directly connected, Serial2/0
Router#

Router com0 is now available
```

Copy Paste

Time: 01:11:55 Power Cycle Devices Fast Forward Time

Scenario 0

Fire Last Status Source Destination Type Color Time(se-Periodic Num Edit Delete

Connections

Automatically Choose Connection Type

Toggle PDU List Window

ENG IN 19:49 14-07-2023

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logical [Root]

Router0

Physical Config CLI

### IOS Command Line Interface

```

Router>enable
Router>configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface Fa0/0
Router(config-if)#ip address 10.0.0.2 255.0.0.0
Router(config-if)#no shutdown
Router(config-if)#
Router(config-if)#
Router(config-if)#interface FastEthernet0/0, changed state to up
Router(config-if)#
Router(config-if)#interface Fa2/0
Router(config-if)#ip address 60.0.0.1 255.0.0.0
Router(config-if)#no shutdown
Router(config-if)#
Router(config-if)#
Router(config-if)#interface Serial2/0, changed state to up
Router(config-if)#
Router(config-if)#
Router(config-if)#interface Serial3/0
Router(config-if)#ip address 70.0.0.1 255.0.0.0
Router(config-if)#no shutdown
Router(config-if)#
Router(config-if)#interface Serial3/0, changed state to down
Router(config-if)#
Router(config-if)#interface Serial3/0, changed state to up
Router(config-if)#
Router(config-if)#interface Serial3/0, changed state to up

```

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Time: 01:12:17 Power Cycle Devices Fast Forward Time

Connections

Scenario 0

New Delete

Toggle PDU List Window

Realtime

19:49 14-07-2023

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logical [Root]

Router0

Physical Config CLI

### IOS Command Line Interface

```

Router>enable
Router>configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 20.0.0.0 255.0.0.0 60.0.0.2
Router(config)#ip route 40.0.0.0 255.0.0.0 70.0.0.2
Router(config)#ip route 50.0.0.0 255.0.0.0 70.0.0.2
Router(config)#ip route 100.0.0.0 255.0.0.0 70.0.0.2
Router(config)#exit
Router#
Router#show ip route
Codes: C - connected, S - static, I - IGMP, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
NL - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
I1 - IS-IS level-1, I2 - IS-IS level-2, Ia - IS-IS
* - candidate default, U - per-user static route, o - OER
P - periodic downloaded static route
Gateway of last resort is not set
C 10.0.0.0/8 is directly connected, FastEthernet0/0
S 20.0.0.0/8 [1/0] via 60.0.0.2
S 30.0.0.0/8 [1/0] via 70.0.0.2
S 40.0.0.0/8 [1/0] via 70.0.0.2
S 50.0.0.0/8 [1/0] via 70.0.0.2
C 60.0.0.0/8 is directly connected, Serial2/0
C 70.0.0.0/8 is directly connected, Serial3/0
Router(config)#
Router#show ip route
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 90.0.0.0 255.0.0.0 70.0.0.2
Router(config)#ip route 100.0.0.0 255.0.0.0 70.0.0.2
Router(config)#exit
Router#

```

Copy Paste

Time: 01:12:54 Power Cycle Devices Fast Forward Time

Connections

Scenario 0

New Delete

Toggle PDU List Window

Realtime

19:50 14-07-2023





Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

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

Router2

Physical Config CLI

IOS Command Line Interface

```
Router>enable
Router(config)#
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface Ser2/0
Router(config-if)#ip address 70.0.0.2 255.0.0.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-3-CHANGED: Interface Serial2/0, changed state to up

Router(config-if)#exit
Router(config)#
%LINEPROTO-3-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

Router(config)#interface Fa0/0
Router(config-if)#ip address 80.0.0.2 255.0.0.0
Router(config-if)#no shut

Router(config-if)#
%LINK-3-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-3-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

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

Copy Paste

Time: 01:13:49 Power Cycle Devices Fast Forward Time

Connections

Scenario 0

Fire Last Status Source Destination Type Color Time(se-Periodic Num Edit Delete

New Delete

Toggle PDU List Window

ENG IN 19:51 14-07-2023

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

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

Router2

Physical Config CLI

IOS Command Line Interface

```
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
* - candidate default, U - per-user static route, o - ODR
F - periodic downloaded static route

Gateway of last resort is not set

C 70.0.0.0/8 is directly connected, Serial2/0
C 80.0.0.0/8 is directly connected, FastEthernet0/0

Router>enable
Router(config)#
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 30.0.0.0 255.0.0.0 80.0.0.2
%Invalid next hop address (it's this router)
Router(config)#ip route 30.0.0.0 255.0.0.0 80.0.0.1
Router(config)#ip route 40.0.0.0 255.0.0.0 80.0.0.3
Router(config)#ip route 50.0.0.0 255.0.0.0 80.0.0.3
Router(config)#ip route 10.0.0.0 255.0.0.0 70.0.0.1
Router(config)#ip route 20.0.0.0 255.0.0.0 70.0.0.1
Router(config)#exit
Router#
%SYS-5-CONFIG_I_1 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
* - candidate default, U - per-user static route, o - ODR
F - periodic downloaded static route
```

Copy Paste

Time: 01:14:17 Power Cycle Devices Fast Forward Time

Connections

Scenario 0

Fire Last Status Source Destination Type Color Time(se-Periodic Num Edit Delete

New Delete

Toggle PDU List Window

ENG IN 19:51 14-07-2023



Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

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

```
Router3#enable
Router3#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router3(config)#ip route 0.0.0.0 255.0.0.0 80.0.0.2
Router3(config)#exit
Router3#
Router3#show ip route
Codes: C - connected, S - static, I - IGMP, R - RIP, N - 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
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route

Gateway of last resort is 80.0.0.2 to network 0.0.0.0

* 0.0.0.0/0 is subnetted, 1 subnets
S* 0.0.0.0 [1/0] via 80.0.0.2
C 30.0.0.0/8 is directly connected, FastEthernet1/0
C 80.0.0.0/8 is directly connected, FastEthernet0/0
```

Time: 01:15:41 Power Cycle Devices Fast Forward Time

Connections Automatically Choose Connection Type

Scenario 0 Fire Last Status Source Destination Type Color Time(se-Periodic Num Edit Delete

New Delete Toggle PDU List Window

Search

ENG IN 19:53 14-07-2023

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

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

```
Router3#enable
Router3#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router3(config)#ip route 0.0.0.0 255.0.0.0 80.0.0.2
Router3(config)#exit
Router3#
Router3#show ip route
Codes: C - connected, S - static, I - IGMP, R - RIP, N - 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
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route

Gateway of last resort is 80.0.0.2 to network 0.0.0.0

* 0.0.0.0/8 is subnetted, 1 subnets
S* 0.0.0.0 [1/0] via 80.0.0.2
C 30.0.0.0/8 is directly connected, FastEthernet1/0
C 80.0.0.0/8 is directly connected, FastEthernet0/0
```

Time: 01:16:23 Power Cycle Devices Fast Forward Time

Connections Automatically Choose Connection Type

Scenario 0 Fire Last Status Source Destination Type Color Time(se-Periodic Num Edit Delete

New Delete Toggle PDU List Window

Search

ENG IN 19:54 14-07-2023

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

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

Time: 01:16:42 Power Cycle Devices Fast Forward Time

Connections Automatically Choose Connection Type

Scenario 0 New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(se-Periodic Num Edit Delete

Realtime

19:54 14-07-2023

Router3 CLI

IOS Command Line Interface

```

Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#no ip route 0.0.0.0 255.0.0.0 80.0.0.3
Router(config)#no ip route 0.0.0.0 255.0.0.0 80.0.0.2
Router(config)#ip route 10.0.0.0 255.0.0.0 80.0.0.2
Router(config)#ip route 20.0.0.0 255.0.0.0 80.0.0.2
Router(config)#ip route 40.0.0.0 255.0.0.0 80.0.0.3
Router(config)#ip route 50.0.0.0 255.0.0.0 80.0.0.3
Router(config)#exit
Router#
Asterisk-S-CONFIG_1: Configured from console by console
Router#show ip route
Codes: C - connected, S - static, I - ISMP, B - BGP, N - 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, I - IS
I1 - 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
F - periodic downloaded static route
Gateway of last resort is not set
S 10.0.0.0/8 [1/0] via 80.0.0.2
S 20.0.0.0/8 [1/0] via 80.0.0.2
C 30.0.0.0/8 is directly connected, FastEthernet0/0
S 40.0.0.0/8 [1/0] via 80.0.0.3
S 50.0.0.0/8 [1/0] via 80.0.0.3
C 80.0.0.0/8 is directly connected, FastEthernet0/0
Router#

```

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

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

Time: 01:16:58 Power Cycle Devices Fast Forward Time

Connections Automatically Choose Connection Type

Scenario 0 New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(se-Periodic Num Edit Delete

Realtime

19:55 14-07-2023

Router4 CLI

IOS Command Line Interface

```

Router#enable
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface Fa0/0
Router(config-if)#ip address 80.0.0.3 255.0.0.0
Router(config-if)#no shut
Router(config-if)#
%LINK-3-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Router(config-if)#exit
Router(config)#interface Se2/0
Router(config-if)#ip address 100.0.0.1
% Incomplete command.
Router(config-if)#ip address 100.0.0.1 255.0.0.0
Router(config-if)#no shut
%LINK-3-CHANGED: Interface Serial2/0, changed state to down
Router(config-if)#exit
%LINK-3-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
Router#

```



Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

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

Router4 Physical Config CLI

IOS Command Line Interface

```
Router>enable
Router#configure t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 10.0.0.0 255.0.0.0 80.0.0.2
Router(config)#ip route 20.0.0.0 255.0.0.0 80.0.0.2
Router(config)#ip route 30.0.0.0 255.0.0.0 80.0.0.1
Router(config)#exit
Router#
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       O - OSPF, EX - OSPF 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
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

S 10.0.0.0/8 [1/0] via 80.0.0.2
S 20.0.0.0/8 [1/0] via 80.0.0.2
S 30.0.0.0/8 [1/0] via 80.0.0.1
C 80.0.0.0/8 is directly connected, FastEthernet0/0
C 100.0.0.0/8 is directly connected, Serial2/0
```

Time: 01:17:51 Power Cycle Devices Fast Forward Time

Connections Automatically Choose Connection Type

Scenario 0 New Delete Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(se-Periodic) Num Edit Delete

ENG IN 14-07-2023 19:56

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

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

Router4 Physical Config CLI

IOS Command Line Interface

```
Router>enable
Router#configure t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 40.0.0.0 255.0.0.0 100.0.0.2
Router(config)#ip route 50.0.0.0 255.0.0.0 100.0.0.2
Router(config)#exit
Router#
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       O - OSPF, EX - OSPF 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
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

S 10.0.0.0/8 [1/0] via 80.0.0.2
S 20.0.0.0/8 [1/0] via 80.0.0.2
S 30.0.0.0/8 [1/0] via 80.0.0.1
S 40.0.0.0/8 [1/0] via 100.0.0.2
S 50.0.0.0/8 [1/0] via 100.0.0.2
C 80.0.0.0/8 is directly connected, FastEthernet0/0
C 100.0.0.0/8 is directly connected, Serial2/0
```

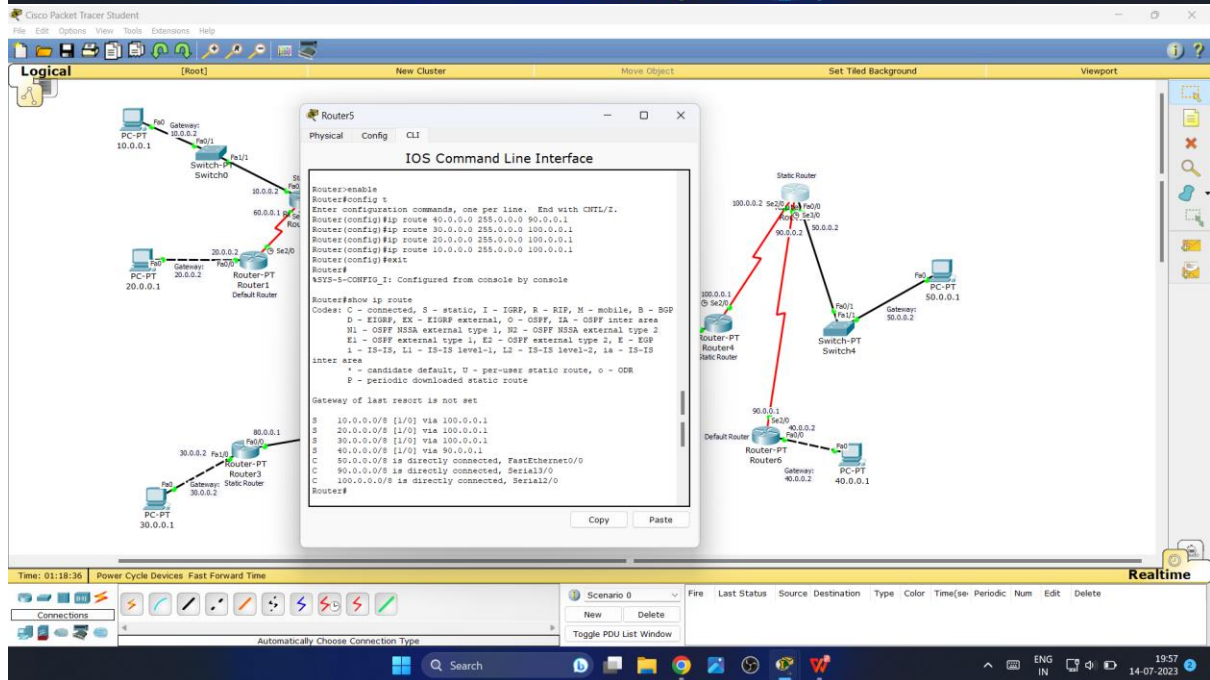
Time: 01:18:09 Power Cycle Devices Fast Forward Time

Connections Automatically Choose Connection Type

Scenario 0 New Delete Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(se-Periodic) Num Edit Delete

ENG IN 14-07-2023 19:56



Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

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

Time: 01:18:57 Power Cycle Devices Fast Forward Time

Connections Automatically Choose Connection Type

Scenario 0 New Delete Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(se-Periodic Num Edit Delete

Realtime

19:57 14-07-2023

IOS Command Line Interface

```
Router>enable
Router#configure t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface Serial2/0
Router(config-if)#ip address 90.0.0.1 255.0.0.0
Router(config-if)#no shut

Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#ip address 40.0.0.2 255.0.0.0
Router(config-if)#no shut

Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 30.0.0.1 255.0.0.0
Router(config-if)#no shut

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

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

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

Time: 01:19:02 Power Cycle Devices Fast Forward Time

Connections Automatically Choose Connection Type

Scenario 0 New Delete Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(se-Periodic Num Edit Delete

Realtime

19:57 14-07-2023

IOS Command Line Interface

```
Router>enable
Router#configure t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 0.0.0.0 0.0.0.0 90.0.0.2
Router#

Router#show ip route
Codes: C - connected, S - static, I - IGMP, 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 dominated static route

Gateway of last resort is 90.0.0.2 to network 0.0.0.0

R
0.0.0.0/0 is subnetted, 1 subnets
S 0.0.0.0 [1/0] via 90.0.0.2
C 40.0.0.0/8 is directly connected, FastEthernet0/0
C 90.0.0.0/8 is directly connected, Serial2/0
Router#
```

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logical [Root] 10.0.0.1

Physical Config Desktop Custom Interface

Command Prompt

```
PCping 20.0.0.1
Pinging 20.0.0.1 with 32 bytes of data:
Reply from 20.0.0.1: bytes=32 time=1ms TTL=124
Reply from 20.0.0.1: bytes=32 time=1ms TTL=124
Reply from 20.0.0.1: bytes=32 time=1ms TTL=124
Reply from 20.0.0.1: bytes=32 time=1ms TTL=124
Ping statistics for 20.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms

PCping 30.0.0.1
Pinging 30.0.0.1 with 32 bytes of data:
Reply from 30.0.0.1: bytes=32 time=1ms TTL=125
Reply from 30.0.0.1: bytes=32 time=1ms TTL=125
Reply from 30.0.0.1: bytes=32 time=1ms TTL=125
Reply from 30.0.0.1: bytes=32 time=1ms TTL=125
Ping statistics for 30.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms

PCping 40.0.0.1
Pinging 40.0.0.1 with 32 bytes of data:
Request timed out.
Reply from 40.0.0.1: bytes=32 time=1ms TTL=123
Reply from 40.0.0.1: bytes=32 time=1ms TTL=123
Reply from 40.0.0.1: bytes=32 time=1ms TTL=123
Reply from 40.0.0.1: bytes=32 time=1ms TTL=123
Ping statistics for 40.0.0.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms
```

Time: 01:20:05 Power Cycle Devices Fast Forward Time

Connections

Scenario 0

Fire Last Status Source Destination Type Color Time(se-Periodic Num Edit Delete

Toggle PDU List Window

Search

ENG IN 19:58 14-07-2023

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logical [Root] 10.0.0.1

Physical Config Desktop Custom Interface

Command Prompt

```
PCping 40.0.0.1
Pinging 40.0.0.1 with 32 bytes of data:
Request timed out.
Reply from 40.0.0.1: bytes=32 time=1ms TTL=123
Reply from 40.0.0.1: bytes=32 time=1ms TTL=123
Reply from 40.0.0.1: bytes=32 time=1ms TTL=123
Reply from 40.0.0.1: bytes=32 time=1ms TTL=123
Ping statistics for 40.0.0.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms

PCping 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=124
Reply from 50.0.0.1: bytes=32 time=1ms TTL=124
Reply from 50.0.0.1: bytes=32 time=1ms TTL=124
Reply from 50.0.0.1: bytes=32 time=1ms TTL=124
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

PC>
```

Time: 01:20:15 Power Cycle Devices Fast Forward Time

Connections

Scenario 0

Fire Last Status Source Destination Type Color Time(se-Periodic Num Edit Delete

Toggle PDU List Window

Search

ENG IN 19:58 14-07-2023



Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logical [Root] 20.0.0.1

Physical Config Desktop Custom Interface

Command Prompt

```
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.1

Pinging 10.0.0.1 with 32 bytes of data:
Reply from 10.0.0.1: bytes=32 time=1ms TTL=124
Reply from 10.0.0.1: bytes=32 time=2ms TTL=124
Reply from 10.0.0.1: bytes=32 time=1ms TTL=124
Reply from 10.0.0.1: bytes=32 time=2ms TTL=124

Ping statistics for 10.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 2ms, Average = 1ms
PC>ping 30.0.0.1

Pinging 30.0.0.1 with 32 bytes of data:
Reply from 30.0.0.1: bytes=32 time=1ms TTL=124
Reply from 30.0.0.1: bytes=32 time=2ms TTL=124
Reply from 30.0.0.1: bytes=32 time=1ms TTL=124
Reply from 30.0.0.1: bytes=32 time=2ms TTL=124

Ping statistics for 30.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 2ms, Average = 1ms
```

Time: 01:21:23 Power Cycle Devices Fast Forward Time

Connections

Scenario 0

Fire Last Status Source Destination Type Color Time(se-Periodic Num Edit Delete

New Delete

Toggle PDU List Window

Automatically Choose Connection Type

Search

ENG IN 2000 14-07-2023

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logical [Root] 20.0.0.1

Physical Config Desktop Custom Interface

Command Prompt

```
PC>ping 40.0.0.1

Pinging 40.0.0.1 with 32 bytes of data:
Reply from 40.0.0.1: bytes=32 time=1ms TTL=122
Reply from 40.0.0.1: bytes=32 time=1ms TTL=122
Reply from 40.0.0.1: bytes=32 time=1ms TTL=122
Reply from 40.0.0.1: bytes=32 time=1ms TTL=122

Ping statistics for 40.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms
PC>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=123
Reply from 50.0.0.1: bytes=32 time=1ms TTL=123
Reply from 50.0.0.1: bytes=32 time=1ms TTL=123
Reply from 50.0.0.1: bytes=32 time=1ms TTL=123

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
```

Time: 01:21:27 Power Cycle Devices Fast Forward Time

Connections

Scenario 0

Fire Last Status Source Destination Type Color Time(se-Periodic Num Edit Delete

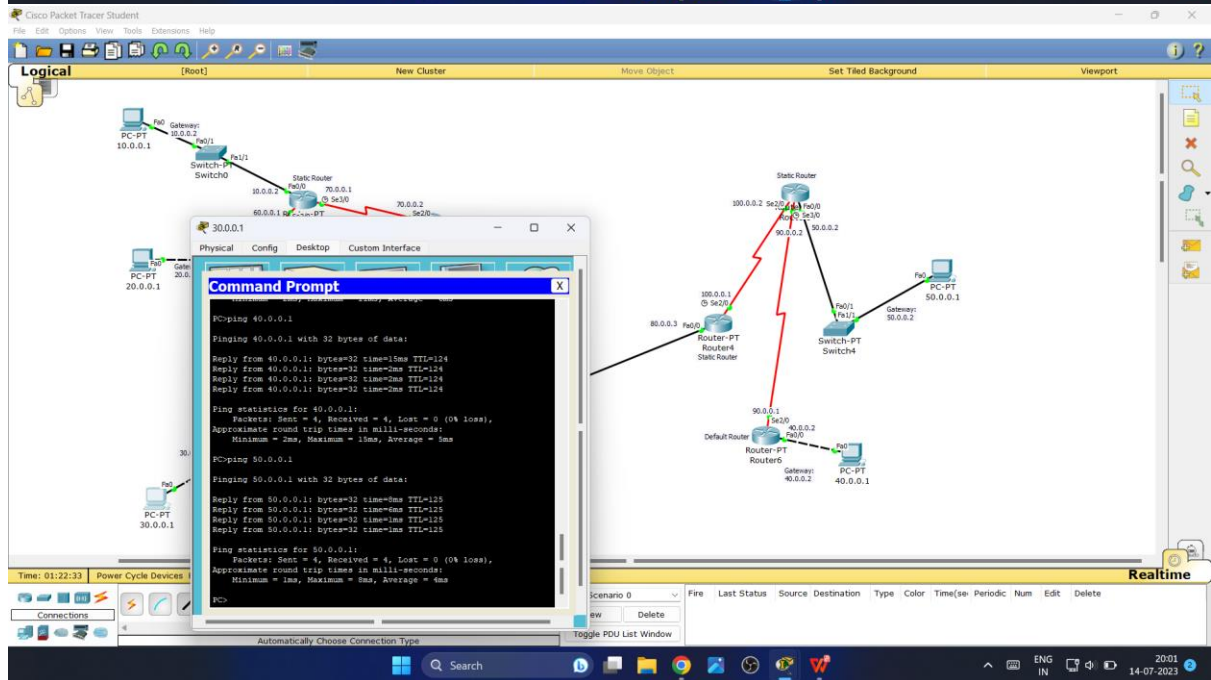
New Delete

Toggle PDU List Window

Automatically Choose Connection Type

Search

ENG IN 2000 14-07-2023



Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

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

Command Prompt

```
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.1
Pinging 10.0.0.1 with 32 bytes of data:

Reply from 10.0.0.1: bytes=32 time=16ms TTL=123
Reply from 10.0.0.1: bytes=32 time=15ms TTL=123
Reply from 10.0.0.1: bytes=32 time=15ms TTL=123
Reply from 10.0.0.1: bytes=32 time=15ms TTL=123

Ping statistics for 10.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 15ms, Maximum = 16ms, Average = 15ms

PC>ping 20.0.0.1
Pinging 20.0.0.1 with 32 bytes of data:

Reply from 20.0.0.1: bytes=32 time=15ms TTL=122
Reply from 20.0.0.1: bytes=32 time=15ms TTL=122
Reply from 20.0.0.1: bytes=32 time=15ms TTL=122
Reply from 20.0.0.1: bytes=32 time=15ms TTL=122

Ping statistics for 20.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 15ms, Maximum = 15ms, Average = 15ms

PC>
```

Time: 01:23:19 Power Cycle Devices Fast Forward Time

Connections

Scenario 0

Fire	Last Status	Source	Destination	Type	Color	Time(se	Periodic	Num	Edit	Delete
------	-------------	--------	-------------	------	-------	---------	----------	-----	------	--------

Toggle PDU List Window

Search

ENG IN 20:02 14-07-2023

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

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

Command Prompt

```
Packet Tracer PC Command Line 1.0
PC>ping 30.0.0.1
Pinging 30.0.0.1 with 32 bytes of data:

Reply from 30.0.0.1: bytes=32 time=12ms TTL=124
Reply from 30.0.0.1: bytes=32 time=12ms TTL=124
Reply from 30.0.0.1: bytes=32 time=12ms TTL=124
Reply from 30.0.0.1: bytes=32 time=12ms TTL=124

Ping statistics for 30.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 12ms, Maximum = 12ms, Average = 12ms

PC>ping 50.0.0.1
Pinging 50.0.0.1 with 32 bytes of data:

Reply from 50.0.0.1: bytes=32 time=9ms TTL=126
Reply from 50.0.0.1: bytes=32 time=7ms TTL=126
Reply from 50.0.0.1: bytes=32 time=9ms 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 = 17ms, Average = 9ms

PC>
```

Time: 01:23:23 Power Cycle Devices Fast Forward Time

Connections

Scenario 0

Fire	Last Status	Source	Destination	Type	Color	Time(se	Periodic	Num	Edit	Delete
------	-------------	--------	-------------	------	-------	---------	----------	-----	------	--------

Toggle PDU List Window

Search

ENG IN 20:02 14-07-2023

Cisco Packet Tracer Student

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

Command Prompt

```
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.1

Pinging 10.0.0.1 with 32 bytes of data:
Reply from 10.0.0.1: bytes=32 time=3ms TTL=124
Reply from 10.0.0.1: bytes=32 time=3ms TTL=124
Reply from 10.0.0.1: bytes=32 time=3ms TTL=124
Reply from 10.0.0.1: bytes=32 time=3ms TTL=124

Ping statistics for 10.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 3ms, Maximum = 3ms, Average = 3ms
PC>ping 20.0.0.1

Pinging 20.0.0.1 with 32 bytes of data:
Reply from 20.0.0.1: bytes=32 time=1ms TTL=123
Reply from 20.0.0.1: bytes=32 time=1ms TTL=123
Reply from 20.0.0.1: bytes=32 time=1ms TTL=123
Reply from 20.0.0.1: bytes=32 time=1ms TTL=123

Ping statistics for 20.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 3ms, Maximum = 15ms, Average = 5ms
```

Time: 01:23:59 Power Cycle Devices Fast Forward Time

Connections Automatically Choose Connection Type

Scenario 0 Fire Last Status Source Destination Type Color Time(se-Periodic Num Edit Delete

New Delete Toggle PDU List Window

ENG IN 2003 14-07-2023

Cisco Packet Tracer Student

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

Command Prompt

```
PC>ping 30.0.0.1

Pinging 30.0.0.1 with 32 bytes of data:
Reply from 30.0.0.1: bytes=32 time=1ms TTL=125
Reply from 30.0.0.1: bytes=32 time=1ms TTL=125
Reply from 30.0.0.1: bytes=32 time=1ms TTL=125
Reply from 30.0.0.1: bytes=32 time=1ms TTL=125

Ping statistics for 30.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 5ms
PC>ping 40.0.0.1

Pinging 40.0.0.1 with 32 bytes of data:
Reply from 40.0.0.1: bytes=32 time=1ms TTL=126
Reply from 40.0.0.1: bytes=32 time=1ms TTL=126
Reply from 40.0.0.1: bytes=32 time=1ms TTL=126
Reply from 40.0.0.1: bytes=32 time=1ms TTL=126

Ping statistics for 40.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 3ms
```

Time: 01:24:05 Power Cycle Devices Fast Forward Time

Connections Automatically Choose Connection Type

Scenario 0 Fire Last Status Source Destination Type Color Time(se-Periodic Num Edit Delete

New Delete Toggle PDU List Window

ENG IN 2003 14-07-2023



