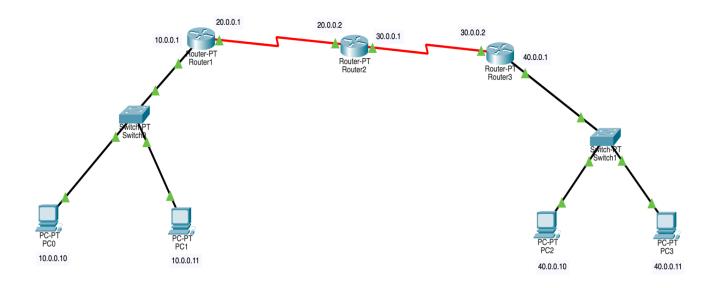
Title: Configure default route, static route to the Router

Topology:



IP Route for all routers:



Router2

Physical

Config CLI

Attributes

IOS Command Line Interface

```
Router(config-if)#
Router(config-if)
Router (config-if) #exit
 Router(config)#interface Serial3/0
Router(config-if) #no shutdown
Router(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
% Invalid input detected at '^' marker.
Router(config-if)#exit
Router(config)#exit
%SYS-5-CONFIG_I: Configured from console by console
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

NI - 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
       20.0.0.0/8 is directly connected, Serial3/0 30.0.0.0/8 is directly connected, Serial2/0
Router#
Router#
Router#configure terminal
Enter configuration commands, one per line. End with {\tt CNTL/Z.}
Router (config) #
Router(config) #ip route 10.0.0.0 255.0.0.0 20.0.0.1 Router(config) #ip route 40.0.0.0 255.0.0.0 30.0.0.2 Router(config) #exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
show ip route
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

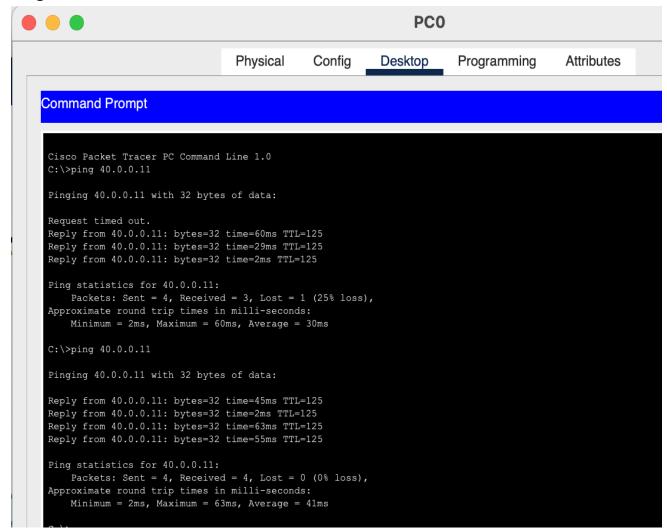
* - candidate default, U - per-user static route, o - ODR
            P - periodic downloaded static route
Gateway of last resort is not set
         10.0.0.0/8 [1/0] via 20.0.0.1
        20.0.0.0/8 is directly connected, Serial3/0 30.0.0.0/8 is directly connected, Serial2/0 ^{\circ}
         40.0.0.0/8 [1/0] via 30.0.0.2
Router#
```

Router3

```
Router (config-if) #
 Router(config-if)#exit
 Router(config)#interface Serial2/0
 Router(config-if) #no shutdown
 Router(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
show ip route
 % Invalid input detected at '^' marker.
Router(config-if)#exit
 Router (config) #exit
 Router#
 %SYS-5-CONFIG_I: Configured from console by console
 show ip route
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
       30.0.0.0/8 is directly connected, Serial2/0 40.0.0.0/8 is directly connected, FastEthernet0/0
Router#
 Router#configure terminal
 Enter configuration commands, one per line. End with \mathtt{CNTL}/\mathtt{Z}\text{.}
 Router(config)#
Router(config)#ip route 20.0.0.0 255.0.0.0 30.0.0.1
Router(config)#ip route 10.0.0.0 255.0.0.0 30.0.0.1
 Router(config)#exit
 Router#
 %SYS-5-CONFIG_I: Configured from console by console
 show ip route
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, I1 - 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
         10.0.0.0/8 [1/0] via 30.0.0.1
         20.0.0.0/8 [1/0] via 30.0.0.1
30.0.0.0/8 is directly connected, Serial2/0
         40.0.0.0/8 is directly connected, FastEthernet0/0
```

Pinging end devices in different network:

Ping PC3 from PC0



Ping PC1 from PC2

