



```
Router = conf
Router = conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router (config) # interface fastEthernet 0/0
Router (config-if) # ip address 172.16.20.1 255.255.255.0
Router (config-if) # %LINK-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-if) # exit
Router (config-if) # exit
```

```
Router#en
Router#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fastEthernet 0/1
Router(config-if)#ip address 172.17.20.1 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
Router(config-if)#exit
Router(config)#exit
Router#
```

```
Router#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #router eigrp 10
Router(config-router) #network 172.16.20.0 0.0.0.255
Router(config-router) #network 172.17.20.0 0.0.0.255
Router(config-router) #exit
Router(config) #exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
wr
Building configuration...
```

```
Router#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line.
                                              End with CNTL/Z.
Router(config) #interface fastEthernet 0/0
Router(config-if) #ip address 172.17.20.2 255.255.255.0
Router(config-if) #no shutdown
Router(config-if)#
%LINK-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) #exit
Router#
%SYS-5-CONFIG I: Configured from console by console
Router#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line.
                                              End with CNTL/Z.
Router(config) #interface fastEthernet 0/1
Router(config-if) #ip address 172.18.20.1 255.255.255.0
Router(config-if) #no shutdown
Router(config-if)#
```

```
172.17.0.0/24 is subnetted, 1 subnets
        172.17.20.0 is directly connected, FastEthernet0/0
C
     172.18.0.0/24 is subnetted, 1 subnets
С
        172.18.20.0 is directly connected, FastEthernet0/1
Router#
Router#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router (config) #network 172.17.20.0 0.0.0.255
% Invalid input detected at '^' marker.
Router (config) #router eigrp 10
Router (config-router) #network 172.17.20.0 0.0.0.255
Router (config-router) #
%DUAL-5-NBRCHANGE: IP-EIGRP 10: Neighbor 172.17.20.1
(FastEthernet0/0) is up: new adjacency
Router (config-router) #network 172.18.20.0 0.0.0.255
Router (config-router) #exit
Router (config) #exit
Router#
%SYS-5-CONFIG I: Configured from console by console
wr
```

Gateway of last resort is not set

```
Router>en
Router#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #interface fastEthernet 0/0
Router(config-if) #ip address 172.18.20.2 255.255.255.0
Router(config-if) #no shutdown
Router(config-if)#
%LINK-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) #exit
Router#
%SYS-5-CONFIG I: Configured from console by console
Router#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router (config) #interface fastEthernet 0/1
Router(config-if) #ip address 172.19.20.1 255.255.255.0
Router(config-if) #no shutdown
```

```
Router>en
Router#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #router eigrp 10
Router(config-router) #network 172.18.20.0 0.0.0.255
Router (config-router) #
%DUAL-5-NBRCHANGE: IP-EIGRP 10: Neighbor 172.18.20.1
(FastEthernet0/0) is up: new adjacency
Router(config-router) #network 172.19.20.0 0.0.0.255
Router (config-router) #exit
Router(config) #exit
Router#
%SYS-5-CONFIG I: Configured from console by console
wr
Building configuration...
[OK]
```

```
C:\>ping 172.19.20.10
Pinging 172.19.20.10 with 32 bytes of data:
Reply from 172.19.20.10: bytes=32 time<1ms TTL=125
Ping statistics for 172.19.20.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>tracert 172.19.20.10
Tracing route to 172.19.20.10 over a maximum of 30 hops:
      0 ms
                0 ms
                          0 ms
                                    172.16.20.1
  1
                0 ms
  2
      0 ms
                         0 ms
                                    172.17.20.2
                0 ms
                                    172.18.20.2
  3
      0 ms
                         0 ms
                                    172.19.20.10
                          0 ms
  4
      0 ms
                0 ms
Trace complete.
```