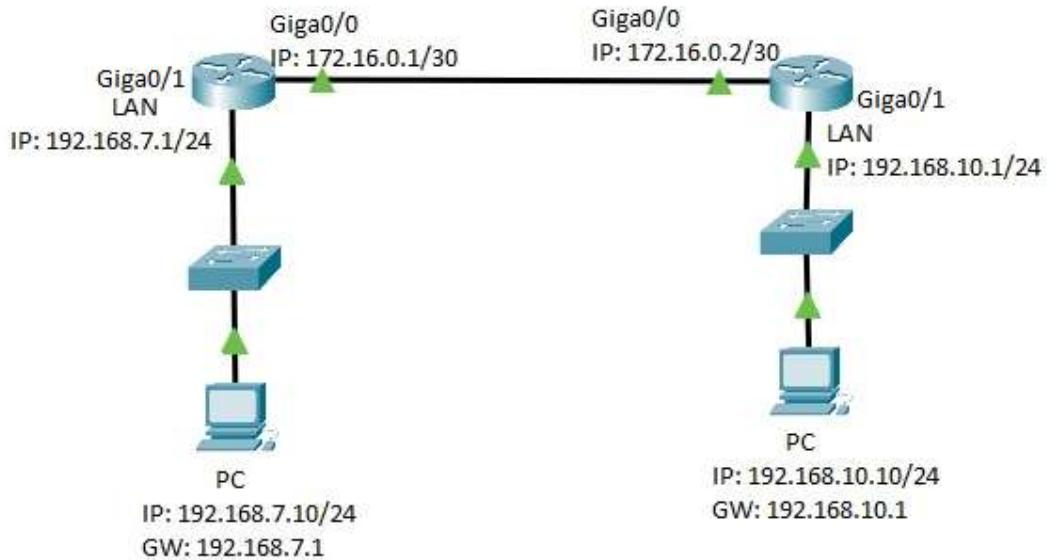


Verify EIGRP (BEIGRP)



Router 1 Configuration

```
interface Loopback1
ip address 1.1.1.1 255.255.255.255
!
interface GigaEthernet0/0
ip address 172.16.0.1 255.255.255.252
!
interface GigaEthernet0/1
ip address 192.168.7.1 255.255.255.0
!
router beigrp 100
network 172.16.0.0 255.255.255.252
network 192.168.7.0 255.255.255.0
network 1.1.1.1 255.255.255.255
!
```

Router 2 Configuration

```
interface Loopback2
ip address 2.2.2.2 255.255.255.255
!
interface GigaEthernet0/0
ip address 172.16.0.2 255.255.255.252
!
interface GigaEthernet0/1
ip address 192.168.10.1 255.255.255.0
!
router beigrp 100
network 192.168.10.0 255.255.255.0
```

```
network 2.2.2.2 255.255.255.255
```

```
network 172.16.0.0 255.255.255.252
```

Router 1

```
Router_1#  
Router_1#show ip route  
route          -- Show route table  
Router_1#show ip route  
Codes: C - connected, S - static, R - RIP, B - BGP, BC - BGP connected  
       [D - BEIGRP] DEX - external BEIGRP, O - OSPF, OIA - OSPF inter area  
       ON1 - OSPF NSSA external type 1, ON2 - OSPF NSSA external type 2  
       OE1 - OSPF external type 1, OE2 - OSPF external type 2, L - Local  
       DHCP - DHCP type, LI - IS-IS level-1, LZ - IS-IS level-2  
       IA - ISIS inter-level, I - IPSEC type  
  
VRF ID: 0  
C    1.1.1.1/32      is directly connected, Loopback1  
D    2.0.0.0/8        [90,15616] via 172.16.0.2(on GigaEthernet0/0)  
C    172.16.0.0/30    is directly connected, GigaEthernet0/0  
C    192.168.7.0/24  is directly connected, GigaEthernet0/1  
D    192.168.10.0/24 [90,3072] via 172.16.0.2(on GigaEthernet0/0)  
Router_1#  
Router_1#show ip bgp neighbors  
Information of BEIGRP neighbors with AS 100  
Address      interface   hold  uptime Q_cnt Seq  
172.16.0.2   GigaEthernet0/011  00:02:29  0     4(0)  
Router_1#  
Router_1#show ip bgp pro  
Router_1#show ip bgp protocols  
Protocol Information of BEIGRP with AS 100:  
Router-id 1.1.1.1  
Metric Weight: K1=1, K2=0, K3=1, K4=0, K5=0.  
Redistributing:  
Automatic network summarization is enable.  
Active-time: 3(minutes)  
Routing for Networks:  
  172.16.0.0/30  
  192.168.7.0/24  
  1.1.1.1/32  
Distance: internal 90, external 170  
Active Route:  
Router_1#
```

Router 2

```
Router_2#  
Router_2#show ip route  
route          -- Show route table  
Router_2#show ip route  
Codes: C - connected, S - static, R - RIP, B - BGP, BC - BGP connected  
       [D - BEIGRP] DEX - external BEIGRP, O - OSPF, OIA - OSPF inter area  
       ON1 - OSPF NSSA external type 1, ON2 - OSPF NSSA external type 2  
       OE1 - OSPF external type 1, OE2 - OSPF external type 2, L - Local  
       DHCP - DHCP type, LI - IS-IS level-1, LZ - IS-IS level-2  
       IA - ISIS inter-level, I - IPSEC type  
  
VRF ID: 0  
D    1.0.0.0/8        [90,15616] via 172.16.0.1(on GigaEthernet0/0)  
L    2.2.2.2/32       is directly connected, Loopback2  
L    192.168.10.0/24 is directly connected, GigaEthernet0/0  
D    192.168.7.0/24  [90,3072] via 172.16.0.1(on GigaEthernet0/0)  
D    192.168.10.0/24 is directly connected, GigaEthernet0/1  
Router_2#  
Router_2#show ip bgp n  
Router_2#show ip bgp neighbors  
Information of BEIGRP neighbors with AS 100  
Address      interface   hold  uptime Q_cnt Seq  
172.16.0.1   GigaEthernet0/013  00:09:27  0     4(0)  
Router_2#  
Router_2#show ip bgp pro  
Router_2#show ip bgp protocols  
Protocol Information of BEIGRP with AS 100:  
Router-id 2.2.2.2  
Metric Weight: K1=1, K2=0, K3=1, K4=0, K5=0.  
Redistributing:  
Automatic network summarization is enable.  
Active-time: 3(minutes)  
Routing for Networks:  
  192.168.10.0/24  
  2.2.2.2/32  
  172.16.0.0/30  
Distance: internal 90, external 170  
Active Route:  
Router_2#
```

Router 1 connected PC Snapshot

```
C:\Users\Harshad>
C:\Users\Harshad>ping 192.168.10.10

Pinging 192.168.10.10 with 32 bytes of data:
Reply from 192.168.10.10: bytes=32 time=1ms TTL=126

Ping statistics for 192.168.10.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms

C:\Users\Harshad>
C:\Users\Harshad>tracert -d 192.168.10.10

Tracing route to 192.168.10.10 over a maximum of 30 hops
  1  <1 ms     <1 ms     <1 ms  192.168.7.1
  2  1 ms     <1 ms     1 ms  172.16.0.2
  3  1 ms     1 ms     1 ms  192.168.10.10

Trace complete.

C:\Users\Harshad>
```