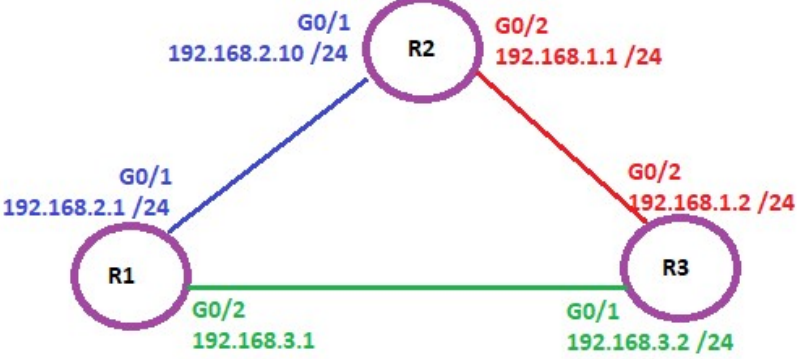


Static Floating Route With BFD

Purpose	Configure BFD for static float route.
Test setup	 <p>The diagram illustrates a network topology with three routers: R1, R2, and R3. R1 is connected to R2 via interface G0/1 with IP 192.168.2.1/24. R2 is connected to R3 via interface G0/2 with IP 192.168.1.1/24. R1 is also connected to R3 via interface G0/2 with IP 192.168.3.1, and R3 has interface G0/1 with IP 192.168.3.2/24.</p>
Test configuration	<pre> Router 1 ! interface GigEthernet0/0 ip address 192.168.3.1 255.255.255.0 no ip directed-broadcast bfd enable bfd echo enable ip http firewalltype 0 ! interface GigEthernet0/1 ip address 192.168.2.1 255.255.255.0 no ip directed-broadcast bfd enable bfd echo enable ip http firewalltype 0 ! ip route 192.168.1.0 255.255.255.0 192.168.2.10 ip route 192.168.1.0 255.255.255.0 192.168.3.2 10 ip route bfd static next-hop ip route bfd query interval 1 ip route bfd reply interval 1 ip route bfd static 192.168.2.10 ip route bfd static 192.168.3.2 ! Router 2 interface GigEthernet0/1 ip address 192.168.2.10 255.255.255.0 </pre>

	<pre> no ip directed-broadcast ipv6 enable ipv6 dhcp client na bfd enable bfd echo enable ip http firewalltype 0 ! interface GigaEthernet0/2 ip address 192.168.1.1 255.255.255.0 no ip directed-broadcast bfd enable bfd echo enable ip http firewalltype 0 ! ip route 172.16.253.0 255.255.255.0 172.16.254.1 ip route 192.168.3.0 255.255.255.0 192.168.1.2 ip route 192.168.3.0 255.255.255.0 192.168.2.1 10 ip route bfd static next-hop ip route bfd query interval 1 ip route bfd reply interval 1 ip route bfd static 192.168.2.1 ip route bfd static 192.168.1.2 ! Router 3 ! interface GigaEthernet0/1 ip address 192.168.3.2 255.255.255.0 no ip directed-broadcast bfd enable bfd echo enable ip http firewalltype 0 ! interface GigaEthernet0/2 ip address 192.168.1.2 255.255.255.0 no ip directed-broadcast bfd enable bfd echo enable ip http firewalltype 0 ! ip route 192.168.2.0 255.255.255.0 192.168.1.1 ip route 192.168.2.0 255.255.255.0 192.168.3.1 10 ip route bfd static next-hop ip route bfd query interval 1 ip route bfd reply interval 1 ip route bfd static 192.168.3.1 ip route bfd static 192.168.1.1 ! </pre>
Procedure	Connect R1 to R2 , R2 to R3 and R3 to R1 on individual Networks.


```
172.16.254.234 - PuTTY
Router_2_20#
Router_2_20#
Router_2_20#
Router_2_20#sh ip route bfd static
query interval = 100ms
reply interval = 100ms
type vrf nexthop state query(ms) detect failed next(ms) wait(ms)
) repeat interface src_ip
icmp 0 192.168.2.1 unreachable 100 15810 578 100 0
1 GigaEthernet0/1 192.168.2.10
icmp 0 192.168.1.2 reachable 100 15898 549 100 0
0 GigaEthernet0/2 192.168.1.1
Router_2_20#
Router_2_20#
Router_2_20#
Router_2_20#
Router_2_20#
Router_2_20#
```

```
Router_3_62#sh ip route bfd static
query interval = 100ms
reply interval = 100ms
type vrf nexthop state query(ms) detect failed next(ms) wait(ms)
) repeat interface src_ip
icmp 0 192.168.3.1 reachable 100 15239 0 100 0
0 GigaEthernet0/1 192.168.3.2
icmp 0 192.168.1.1 reachable 100 13590 549 100 0
0 GigaEthernet0/2 192.168.1.2
Router_3_62#
Router_3_62#
Router_3_62#
```