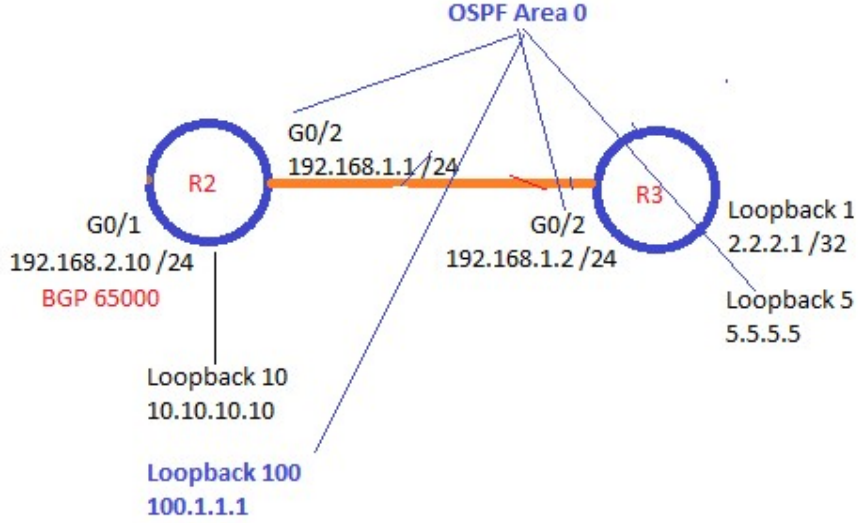


## Redistributing BGP Learned Routes Into OSPF

<b>Purpose</b>	<b>Redistributing BGP learned routes into OSPF.</b>
<b>Test setup</b>	
<b>Test configuration</b>	<p><b>Router 2</b></p> <pre> bfd init-mode active ! ! interface Loopback0 ip address 10.10.10.10 255.255.255.255 no ip directed-broadcast ! interface GigaEthernet0/2 ip address 192.168.1.1 255.255.255.0 no ip directed-broadcast bfd enable bfd echo enable bfd min_echo_rx_interval 50 bfd neighbor 192.168.1.2 ip http firewalltype 0 ! router ospf 1 network 100.1.1.1 255.255.255.255 area 0 network 192.168.1.0 255.255.255.0 area 0 redistribute bgp 65000 bfd all-interfaces </pre> <p><b>Router 3</b></p> <pre> bfd init-mode passive ! </pre>

	<pre> interface Loopback5 ip address 5.5.5.5 255.255.255.255 no ip directed-broadcast ! interface GigaEthernet0/2 ip address 192.168.1.2 255.255.255.0 no ip directed-broadcast bfd enable bfd echo enable bfd min_echo_rx_interval 50 bfd neighbor 192.168.1.1 ip http firewalltype 0 ! router ospf 1 network 5.5.5.5 255.255.255.255 area 0 network 192.168.1.0 255.255.255.0 area 0 </pre>
<p><b>Procedure</b></p>	
<p><b>Test result</b></p>	<pre> Router_2_20#sh bfd neighbors BFD Ipv4 Session:   Onehop:     Src-IP      Dst-IP      LD/RD  State  Interface  Echo     192.168.1.1 192.168.1.2 1/0    Up     GigaEthernet0/2  enable BFD Ipv6 Session: Router_2_20# Router_2_20# </pre> <pre> Router_3_62#sh bfd neighbors BFD Ipv4 Session:   Onehop:     Src-IP      Dst-IP      LD/RD  State  Interface  Echo     192.168.1.2 192.168.1.1 1/0    Up     GigaEthernet0/2  enable BFD Ipv6 Session: Router_3_62# Router_3_62# </pre>

```
Router_2_20#sh ip ospf interface
Loopback100 is up, line protocol is up
  Internet Address: 100.1.1.1/32
  Interface index: 11, 0x1c7b7624
  Nettype: Broadcast
  OSPF process is 1, AREA: 0, Router ID: 100.1.1.1
  Cost: 1, Priority 1, Transmit Delay is 1 sec
  Hello interval is 10, Dead timer is 40, Retransmit is 5
  OSPF INTF State is ILOOPBACK, BFD enabled
  Neighbor Count is 0, Adjacent neighbor count is 0
  Null authentication enabled

GigaEthernet0/2 is up, line protocol is UP
  Internet Address: 192.168.1.1/24
  Interface index: 4, 0x1c7b25e4
  Nettype: Broadcast
  OSPF process is 1, AREA: 0, Router ID: 100.1.1.1
  Cost: 1, Priority 1, Transmit Delay is 1 sec
  Hello interval is 10, Dead timer is 40, Retransmit is 5
  OSPF INTF State is IBACKUP, BFD enabled
  Designated Router ID: 200.1.1.1, Interface address 192.168.1.2
  Backup Designated Router ID: 100.1.1.1, Interface address 192.168.1.1
  Neighbor Count is 1, Adjacent neighbor count is 1
    Adjacent with neighbor 200.1.1.1 (Designated Router)
  Null authentication enabled

Router_2_20#
```

```
Router_3_62#sh ip ospf interface
Loopback5 is up, line protocol is up
  Internet Address: 5.5.5.5/32
  Interface index: 9, 0x1c7bd5d4
  Nettype: Broadcast
  OSPF process is 1, AREA: 0, Router ID: 200.1.1.1
  Cost: 1, Priority 1, Transmit Delay is 1 sec
  Hello interval is 10, Dead timer is 40, Retransmit is 5
  OSPF INTF State is ILOOPBACK, BFD enabled
  Neighbor Count is 0, Adjacent neighbor count is 0
  Null authentication enabled

GigaEthernet0/2 is up, line protocol is UP
  Internet Address: 192.168.1.2/24
  Interface index: 4, 0x1c7b8594
  Nettype: Broadcast
  OSPF process is 1, AREA: 0, Router ID: 200.1.1.1
  Cost: 1, Priority 1, Transmit Delay is 1 sec
  Hello interval is 10, Dead timer is 40, Retransmit is 5
  OSPF INTF State is IDr, BFD enabled
  Designated Router ID: 200.1.1.1, Interface address 192.168.1.2
  Backup Designated Router ID: 100.1.1.1, Interface address 192.168.1.1
  Neighbor Count is 1, Adjacent neighbor count is 1
    Adjacent with neighbor 100.1.1.1 (Backup Designated Router)
  Null authentication enabled

Router_3_62#
```