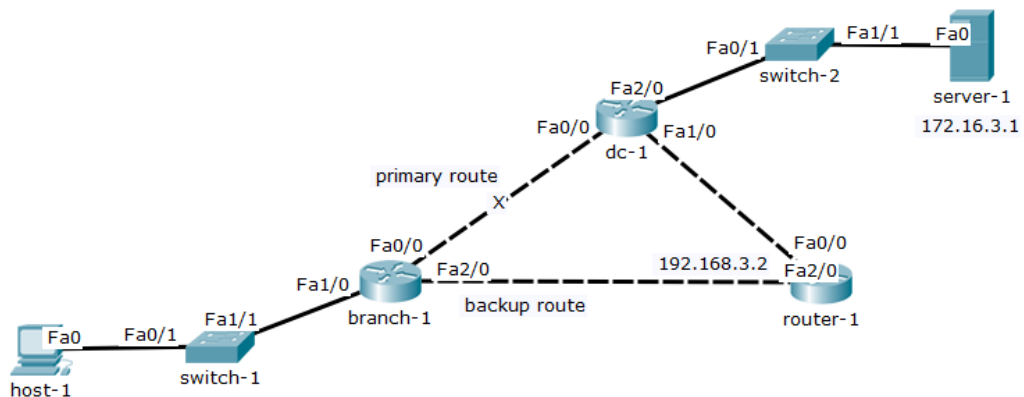


## Lab 3-3: IPv4 Floating Static Route

### Lab Summary

Configure a floating static route on branch-1 so that all packets destined for subnet 172.16.3.0/24 (server-1) are forwarded to router-1 interface Fa2/0 when primary link fails. Configure an administrative distance of 200 and 192.168.3.2 as the next hop address. That is the directly connected interface of router-1.

**Figure 1** Lab Topology



### Lab Configuration

Start Packet Tracer File: **Floating Static Route**

Click on *branch-1* and select *CLI* folder. Hit <enter> key for user prompt.

Step 1: Enter global configuration mode

```
branch-1> enable
Password: cisconet
branch-1# configure terminal
```

Step 2: Configure a floating static route to destination 172.16.3.0/24 with an administrative distance of 200 and 192.168.3.2 as next hop address.

```
branch-1(config)# ip route 172.16.3.0 255.255.255.0 192.168.3.2 200
```

### Step 3: Verify Lab

Verify configuration is correct and confirm preferred route to server-1 is installed in the routing table. It is a RIPv2 route with lower administrative distance. Ping from host-1 to server-1 and verify routing is working correctly. In addition, verify routing path to server-1 is via dc-1 router.

Turn off branch-1 router interface Fa0/0 with **shutdown** command and verify the floating static route is installed in the routing table. The local exit interface is now branch-1 interface Fa2/0 and packets are forwarded to router-1. Ping from host-1 to server-1 and verify that floating static route is working. Verify that routing path to server-1 is now via router-1. There is an anomaly with Packet Tracer that will show RIP (R) route instead of floating static route (S) that can be ignored.

```
branch-1# show running-config
```

```
branch-1# show ip route
```

```
    R 172.16.3.0 [120/1] via 192.168.1.2, 00:00:26, FastEthernet0/0
```

```
host-1: c:\> ping 172.16.3.1
```

```
host-1: c:\> tracert 172.16.3.1
```

Turn off branch-1 interface FastEthernet0/0 with the following commands:

```
branch-1# configure terminal
```

```
branch-1(config)# interface fastethernet0/0
```

```
branch-1(config-if)# shutdown
```

```
branch-1# show ip route
```

```
    S 172.16.3.0 [200/2] via 192.168.3.2, 00:00:00, FastEthernet2/0
```

```
host-1: c:\> ping 172.16.3.1
```

```
host-1: c:\> tracert 172.16.3.1
```