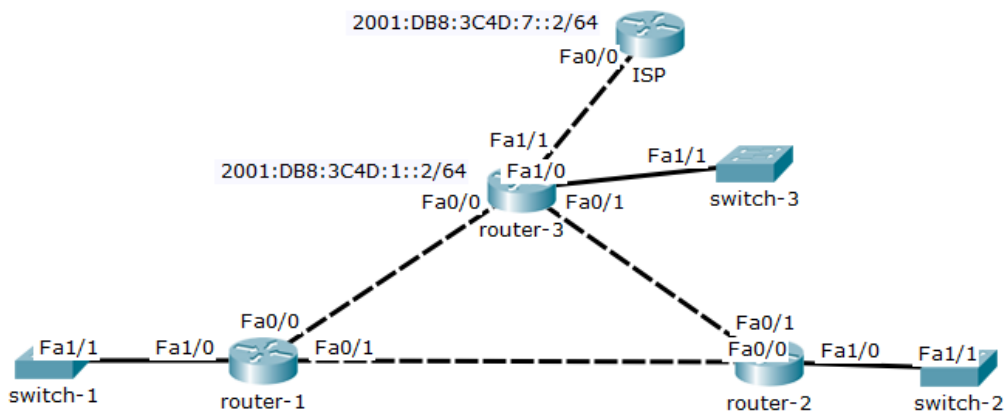


IPv6 Static Route

Lab Summary

Configure an IPv6 static route on router-1 so that hosts connected to switch-1 have internet access.

Figure 1 Lab Topology



Lab Configuration

Start Packet Tracer File: **IPv6 Static Route**

Router-1

Click on the *router-1* icon and select the *CLI* folder. Hit the *key* for user mode prompt (*>*).

Step 1: Enter global configuration mode

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

Step 2: Configure IPv6 static route on router-1 to ISP with destination subnet 2001:DB8:3C4D:7::/64 and 2001:DB8:3C4D:1::2 as next hop address.

```
router-1(config)# ipv6 unicast-routing  
router-1(config)# ipv6 route 2001:DB8:3C4D:7::/64 2001:DB8:3C4D:1::2
```

Step 3: Verify Lab

Ping ISP interface **2001:DB8:3C4D:7::2** to verify the static route from router-1 to ISP router is working correctly. Run the traceroute command as well to verify the route path from router-1 to ISP. Confirm that the static route is installed in the routing table of router-1.

```
router-1# ping 2001:DB8:3C4D:7::2
```

```
router-1# traceroute 2001:DB8:3C4D:7::2
```

```
router-1# show ipv6 route
```

IPv6 Routing Table - 8 entries

Codes: C - Connected, L - Local, S - Static, R - RIP, B - BGP

U - Per-user Static route, M - MIPv6

I1 - ISIS L1, I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary

O - OSPF intra, OI - OSPF inter, OE1 - OSPF ext 1, OE2 - OSPF ext 2

ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2

D - EIGRP, EX - EIGRP external

```
C  2001:DB8:3C4D:1::/64 [0/0]
    via ::, FastEthernet0/0
L  2001:DB8:3C4D:1::1/128 [0/0]
    via ::, FastEthernet0/0
C  2001:DB8:3C4D:2::/64 [0/0]
    via ::, FastEthernet0/1
L  2001:DB8:3C4D:2::1/128 [0/0]
    via ::, FastEthernet0/1
C  2001:DB8:3C4D:4::/64 [0/0]
    via ::, FastEthernet1/0
L  2001:DB8:3C4D:4::1/128 [0/0]
    via ::, FastEthernet1/0
S  2001:DB8:3C4D:7::/64 [1/0]
    via 2001:DB8:3C4D:1::2
L  FF00::/8 [0/0]
    via ::, Null0
```