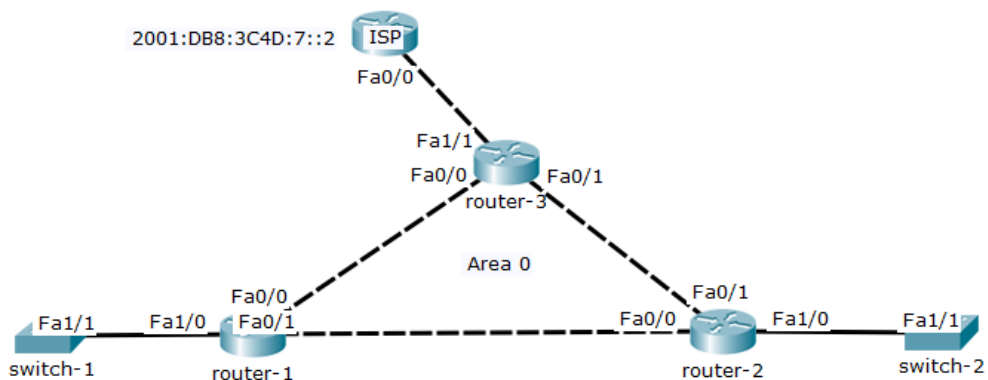


IPv6 Default Route

Lab Summary

Configure a default route on router-3 and advertise it to all neighbors.

Figure 1 Lab Topology



Lab Configuration

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

Router-3

Click on the *router-3* icon and select the *CLI* folder. Hit the `key` for user mode prompt (`>`).

Step 1: Enter global configuration mode

```
router-3 > enable  
Password: cisconet  
router-3# configure terminal
```

Step 2: Configure IPv6 default route on router-3 with next hop address of 2001:DB8:3C4D:7::2

```
router-3(config)# ipv6 route ::/0 2001:DB8:3C4D:7::2
```

Step 3: Advertise default route from router-3 to router-1 and router-2

```
router-3(config)# ipv6 router ospf 1  
router-3(config)# default-information originate  
router-3(config)# end  
router-3(config)# copy running-config startup-config
```

Step 4. Ping the internet router 2001:DB8:3C4D:7::2 from router-1 to verify the default route is working.

```
router-1# ping ipv6 2001:DB8:3C4D:7::2
```

Lab Notes

IPv4 and IPv6 static and default routes are supported. They are configured from global configuration mode. The default route can be advertised to all connected neighbors through any dynamic routing protocol such as OSPF.