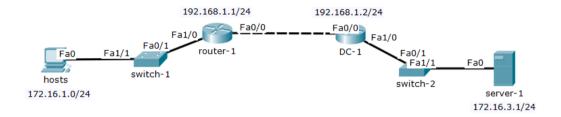
IPv4 Default Route

Lab Summary

Configure a default route on router-1 for packet forwarding to all unknown destinations. The default route specifies the next hop address to forward packets when no route to the destination subnet exists in the routing table.

Figure 1 Lab Topology



Lab Configuration

Start Packet Tracer File: IPv4 Default Route

Step 1: Go to a command prompt on host and verify there is no current network connectivity to server-1.

c:\> ping 172.16.3.1

Router-1

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

Step 2: Enter global configuration mode

router-1> enable
Password: cisconet

router-1# configure terminal

Step 3: Configure a default route on router-1 with a next hop of 192.168.1.2 (DC-1 interface Fa0/0).

router-1(config)# **ip route 0.0.0.0 0.0.0.0 192.168.1.2** router-1(config)# **end**

router-1# copy running-config startup-config

Step 4: Verify Lab

Verify the configuration is correct and confirm the default route with next hop 192.168.1.2 is installed in the routing table of router-1. In addition, confirm there are no routes to DC-1 subnet 172.16.3.0 in the routing table. Ping the data center server (172.16.3.1) to verify the default route is working correctly.

router-1# **show running-config** router-1# **show ip route**

S* 0.0.0.0/0 [1/0] via 192.168.1.2

host: c:\> ping 172.16.3.1