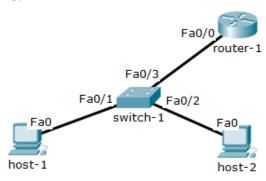
IPv6 Autoconfiguration

Lab Summary

Enable IPv6 Stateless Address Autoconfiguration (SLAAC) on all hosts connected to router-1.

Figure 1 Lab Topology



Lab Configuration

Start Packet Tracer File: IPv6 Autoconfiguration

Router-1

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

Step 1: Enter global configuration mode

router-1 > **enable**Password: **cisconet**

router-1# configure terminal

Step 2: Enable IPv6 packet forwarding router-1(config)# ipv6 unicast-routing

Step 3: Configure an IPv6 address for interface Fa0/0

router-1(config)# interface fastethernet0/0

router-1(config-if)# description link to switch-1

router-1(config-if)# ipv6 address 2001:db8:3c4d:1::3/64

router-1(config-if)# ipv6 address autoconfig

router-1(config-if)# no shutdown

router-1(config-if)# end

router-1# copy running-config startup-config

Step 4: Verify Lab

Confirm the IPv6 configuration is correct on router-1 and interface Fa0/0 is enabled with IPv6 addressing. Ping router-1 from host-1 to verify layer 3 connectivity (same subnet). In addition confirm all network connected devices are assigned a link-local address (FE80) and an IPv6 global unicast address with 2001::/64 prefix.

router-1# show running-config

router-1# show ipv6 interface brief

host-1: c:\> ping 2001:DB8:3C4D:1::3

host-1: c:\> ipv6config /all

host-2: c:\> ipv6config /all