Redes de Computadores - RECOMP

IPv6 Configuration

Lab Topology:

The lab network topology is illustrated below:

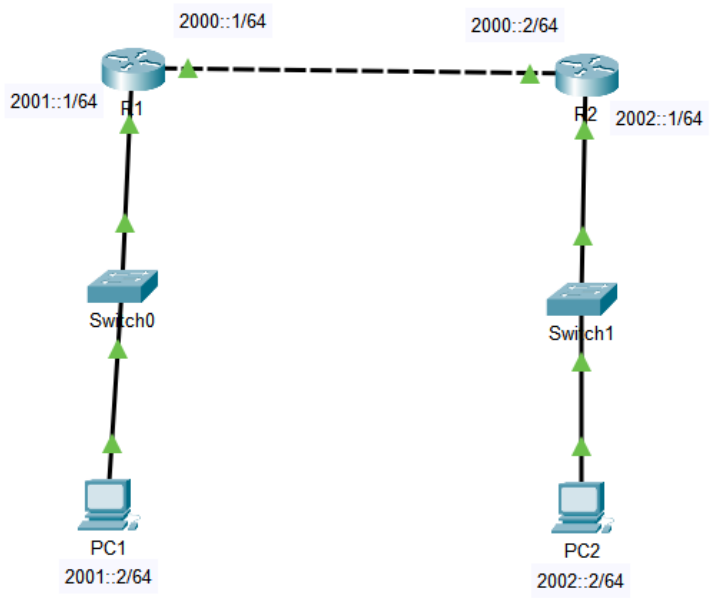

Figure 1- Lab Topology

Objectives

Part 1: Configure IPs
Part 2: Check configuration

Instructions

Step 1: Configure IPs

a) On the routers start by changing the hostname to R1 and R2.

```
Router(config)#hostname R1
```

b) On R1 and R2 enable IPv6 and configure interfaces with the assign IPs.

R1

```
R1(config)#ipv6 unicast-routing
R1(config)#int Gig0/0
R1(config-if)#ipv6 address 2001::1/64
R1(config-if)#no shut
R1(config-if)#
R1(config-if)#exit
R1(config)#
R1(config)#int Gig0/1
R1(config-if)#ipv6 address 2000::1/64
R1(config-if)#no shut
```

R2

```
R2(config)#ipv6 unicast-routing
R2(config)#int Gig0/0
R2(config-if)#ipv6 address 2002::1/64
R2(config-if)#no shut
R2(config-if)#exit
R2(config)#int Gig0/1
R2(config-if)#ipv6 address 2000::2/64
R2(config-if)#no shut
R2(config-if)#exit
```

c) On R1 and R2 configure static routing.

R1

```
R1(config-if)#ipv6 route 2002::/64 2000::2
```

R2

```
R2(config)#ipv6 route 2001::/64 2000::1
```

d) On the PCs open in the Desktop Tab the IP Configuration and static configure the IPv6 with the assign IP and using as default gateway the IP of the route.

	IPv6 Address	Default Gateway
PC1	2001::2/64	2001::1/64
PC2	2002::2/64	2002::1/64

Step 2: Check configuration.

a) On R1 and R2 you can check the configuration using the commands **show ipv6 interface brief** and **show ipv6 route**.

b) From PC1 open the Command Prompt or create a complex PDU to ping the PC2 or vice versa.