

# Packet Tracer - Configure Router Interfaces

## Addressing Table

Device	Interface	IP Address/Prefix	Default Gateway
R1	G0/0	172.16.20.1 /25	N/A
	G0/1	172.16.20.129 /25	N/A
	S0/0/0	209.165.200.225 /30	N/A
PC1	NIC	172.16.20.10 /25	172.16.20.1
PC2	NIC	172.16.20.138 /25	172.16.20.129
R2	G0/0	2001:db8:c0de:12::1/64	N/A
	G0/1	2001:db8:c0de:13::1/64	N/A
	S0/0/1	2001:db8:c0de:11::1/64	N/A
		fe80::2	N/A
PC3	NIC	2001:db8:c0de:12::a/64	fe80::2
PC4	NIC	2001:db8:c0de:13::a/64	fe80::2

## Objectives

**Part 1: Configure IPv4 Addressing and Verify Connectivity**

**Part 2: Configure IPv6 Addressing and Verify Connectivity**

## Background

Routers R1 and R2 each have two LANs. Your task is to configure the appropriate addressing on each device and verify connectivity between the LANs.

**Note:** The user EXEC password is **cisco**. The privileged EXEC password is **class**.

## Instructions

### Part 1: Configure IPv4 Addressing and Verify Connectivity

**Step 1: Assign IPv4 addresses to R1 and LAN devices.**

Referring to the **Addressing Table**, configure IP addressing for **R1** LAN interfaces, **PC1** and **PC2**. The serial interface has already configured.

**Step 2: Verify connectivity.**

**PC1** and **PC2** should be able to ping each other and the **Dual Stack Server**.

### Part 2: Configure IPv6 Addressing and Verify Connectivity

**Step 1: Assign IPv6 addresses to R2 and LAN devices.**

Referring to the **Addressing Table**, configure IP addressing for **R2 LAN interfaces**, **PC3** and **PC4**. The serial interface is already configured.

**Step 2: Verify connectivity.**

**PC3** and **PC4** should be able to ping each other and the **Dual Stack Server**.