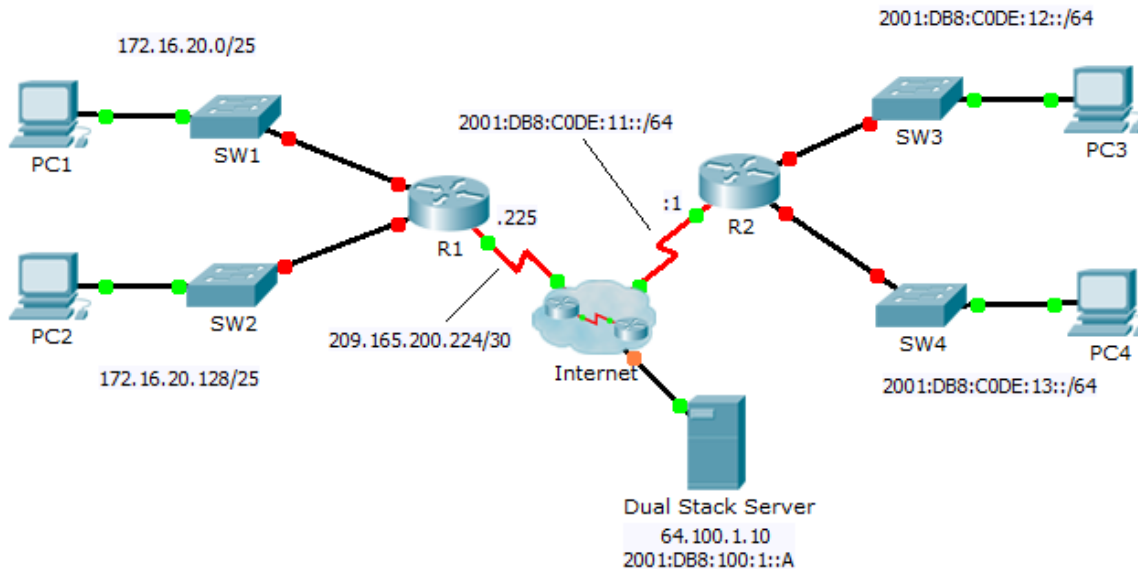


# Packet Tracer - Configuring IPv4 and IPv6 Interfaces

## Topology



## Addressing Table

Device	Interface	IPv4 Address	Subnet Mask	Default Gateway
		IPv6 Address/Prefix		
R1	G0/0	172.16.20.1	255.255.255.128	N/A
	G0/1	172.16.20.129	255.255.255.128	N/A
	S0/0/0	209.165.200.225	255.255.255.252	N/A
PC1	NIC	172.16.20.10	255.255.255.128	172.16.20.1
PC2	NIC	172.16.20.138	255.255.255.128	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
	Link-local	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**.

### 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**.