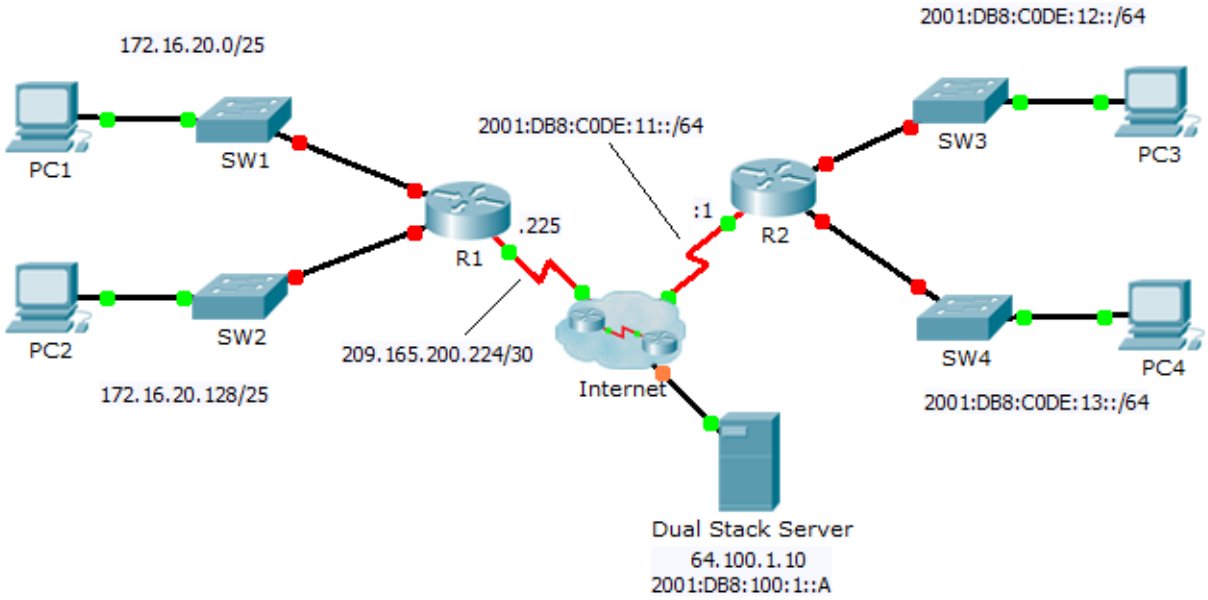
Lab Activity 7.1.0.1 Packet Tracer - Configuring IPv4 and IPv6 Interfaces

Topology



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- Addressing Table

Device	Interface	IPv4 Address IPv6 Address/Prefix	Subnet Mask	Default Gateway
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

- Checking
    - IPV4 Addressing - 5pts
    - IPV6 Addressing - 5pts
    - Router configuration - 10pts
    - Dual Stack Configuration - 10pts
    - Internet configuration - 5pts
    - Verification connectivity - 10pts
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- 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**.

- Configure IPv4 Addressing and Verify Connectivity
    - 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.

- Verify connectivity.

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

- Configure IPv6 Addressing and Verify Connectivity
    - 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.

- Verify connectivity.

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