

**Packet Tracer - Configure Router Interfaces**

# Addressing Table

|  |  |  |  |
| --- | --- | --- | --- |
| **Device** | **Interface** | **IP Address/Prefix** | **Default Gateway** |
| R1  *R1*  *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  *R2*  *R2*  *R2* | G0/0 | 2001:db8:c0de:12::1/64 | N/A |
| G0/1 | 2001:db8:c0de:13::1/64 | N/A |
| S0/0/1  *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**.

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# 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**.

*End of document*

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