

Packet Tracer - Configure Router Interfaces

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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**.

Part 3: Post your screenshots

On the PT Activity window, make sure that the completion grade is **100%**. Click on the **Check Results** button and select the **Assessment Items** tab. Take a screen shot of the whole window, showing the table of assessment items, and the score/item count. Own your photo by placing a watermark on your photo with your name and USC ID Number. Paste your screenshot below:

The screenshot shows the Cisco Packet Tracer Activity Results window. The 'Assessment Items' tab is selected, displaying a table of assessment items. The table has columns for Assessment Items, Status, Points, Component(s), and Feedback. The items are organized by network (PC1, PC2, PC3, PC4, R1, R2) and then by component (Default Gateway, Ports, FastEthernet0, GigabitEthernet0/0, GigabitEthernet0/1). All items are marked as 'Correct'. The summary statistics on the right show a Score of 100/100 and an Item Count of 24/24.

Assessment Items	Status	Points	Component(s)	Feedback
Network				
PC1				
Default Gateway	Correct	2	IPv4 Address Conf...	
Ports				
FastEthernet0				
IP Address	Correct	2	IPv4 Address Conf...	
Subnet Mask	Correct	1	IPv4 Address Conf...	
PC2				
Default Gateway	Correct	2	IPv4 Address Conf...	
Ports				
FastEthernet0				
IP Address	Correct	2	IPv4 Address Conf...	
Subnet Mask	Correct	1	IPv4 Address Conf...	
PC3				
Default Gateway IPv6	Correct	2	IPv6 Address Conf...	
Ports				
FastEthernet0				
IPv6 Addresses				
2001:DB8:C0DE:12::A	Correct	2	IPv6 Address Conf...	
IP Address	Correct	1	IPv6 Address Conf...	
Prefix Length	Correct	1	IPv6 Address Conf...	
PC4				
Default Gateway IPv6	Correct	2	IPv6 Address Conf...	
Ports				
FastEthernet0				
IPv6 Addresses				
2001:DB8:C0DE:13::A	Correct	2	IPv6 Address Conf...	
IP Address	Correct	1	IPv6 Address Conf...	
Prefix Length	Correct	1	IPv6 Address Conf...	
R1				
Ports				
GigabitEthernet0/0	Correct	10	IPv4 Address Conf...	
IP Address	Correct	2	IPv4 Address Conf...	
Port Status	Correct	2	IPv4 Address Conf...	
Subnet Mask	Correct	8	IPv4 Address Conf...	
GigabitEthernet0/1	Correct	10	IPv4 Address Conf...	
IP Address	Correct	2	IPv4 Address Conf...	
Port Status	Correct	2	IPv4 Address Conf...	
Subnet Mask	Correct	8	IPv4 Address Conf...	
R2				
Ports				
GigabitEthernet0/0				
IPv6 Addresses				

Score : 100/100
Item Count : 24/24

Component	Items/Total	Score
IPv4 Address Configuration	12/12	50/50
IPv6 Address Configuration	12/12	50/50

Close

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