28/2/24.00:08 OneNote

Tema 7.7.2.8..EnriqueGomezTagle

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Packet Tracer - Verify IPv4 and IPv6 Addressing

Addressing Table

Device	Interface	IP Address / Prefix		Default Gateway
R1	G0/0	10.10.1.97	255.255.255.224	N/A
		2001:db8:1:1::1/64		Triange -
	S0/0/1	10.10.1.6	255.255.255.252	N/A
		2001:db8:1:2::2/64		
		fe80::1		
R2	S0/0/0	10.10.1.5	255.255.255.252	N/A
	ĺ	2001:db8:1:2::1/64		ĺ
	S0/0/1	10.10.1.9	255.255.255.252	N/A
		2001:db8:1:3::1/64		
	1-	fe80::2		
R3	G0/0	10.10.1.17	255.255.255.240	N/A
		2001:db8:1:4::1/64		
	S0/0/1	10.10.1.10	255.255.255.252	N/A
		2001:db8:1:3::2/64		
		fe80::3		
PC1	NIC	001.1.01.01	255.255.255.254	10.10.1.97
		2001:268:1:1::0/64		fe80::1
PC2	NIC	10,10,1.20	255.255.255.240	10.1.13
		2001: 258:1:4::9/64		fe80::3

Part 2: Test Connectivity Using Ping

Step 1: Use ping to verify IPv4 connectivity.

a. From PC1, ping the IPv4 address for PC2.

Was the result successful?

b. From PC2, ping the IPv4 address for PC1.

Was the result successful?

Step 2: Use ping to verify IPv6 connectivity.

a. From PC1, ping the IPv6 address for PC2.

Was the result successful?

b. From PC2, ping the IPv6 address of PC1.

Was the result successful?

Part 3: Discover the Path by Tracing the Route

Step 1: Use tracert to discover the IPv4 path.

a. From PC1, trace the route to PC2.

PC> tracert 10.10.1.20

What addresses were encountered along the path?

What addresses were encountered along the path?

With which interfaces are the four addresses associated?

Grolo Rz colali Rz calali Ri NIC PCI

Step 2: Use tracert to discover the IPv6 path.

a. From PC1, trace the route to the IPv6 address for PC2.

PC> tracert 2001:db8:1:4::a

What addresses were encountered along the path?

(0.10.1.17, 10.10.1.9, 10.10.1.6, 10.10.1.100)
With which interfaces are the four addresses associated?

Golo R1, Sololo R2, Solol R3, NIC RC

b. From PC2, trace the route to the IPv6 address for PC1.

What addresses were encountered along the path?

2001: PB8: 1:4::1, 2001: DB8: 1:3::1,2001: DB8: (:2::2, 2001: DB8: 1:1:):A

With which interfaces are the four addresses associated?

60/0 R3, SO/0/1 R2, SO/0/1 R1, NIC PCI

