Packet Trace - IPv6-

		IPv6-	link- local
R1	G0/0	2001:db8:acad:00c8::1	fe80::1
	G0/1	2001:db8:acad:00c9::1	fe80::1
	S0/0/0	2001:db8:acad:00cc::1	fe80::1
R2	G0/0	2001:db8:acad:00ca::1	fe80::2
	G0/1	2001:db8:acad:00cb::1	fe80::2
	S0/0/0	2001:db8:acad:00cc::2	fe80::2
PC1	NIC	Auto Config	
PC2	NIC	Auto Config	
PC3	NIC	Auto Config	_
PC4	NIC	Auto Config	

- 1. IPv6-
- 2. IPv6
- 3. IPv6 .

, IPv6 . IPv6 .

1. IPv6-

IPv6 2001:db8:acad:00c8::/64.

R1 G0/0/ LAN 2001:db8:acad:00c8::0/64
R1 G0/1 LAN 2001:db8:acad:00c9::0/64
R2 G0/0 LAN 2001:db8:acad:00ca::0/64
R2 G0/1 LAN 2001:db8:acad:00cb::0/64
R1 - R2 2001:db8:acad:00cc::0/64

2. IPv6

R1(config-if)#

```
IP-
                                                           LAN
            link-local
                                                                                        R1.
                                                                                       R2.
                                                                     IPv6-
Risconfig t
Enter configuration commands, one per line. End with CNTL/Z.
R1(config) #interface G0/0
R1(config-if)#ipv6 address 2001:db8:acad:00c8::1/64
R1(config-if)#ipv6 address fe80::1 link-local
Rl(config-if) #unicast ipv6-routing
% Invalid input detected at '^' marker.
Rl(config-if) #ipv6 unicast-routing
R1(config) #interface G0/0
R1(config-if) #no shutdown
Rl(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernetO/O, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up
R1(config-if) #interface G0/1
R1(config-if) #ipv6 address 2001:db8:acad:00c9::1/64
R1(config-if) #ipv6 address fe80::1 link-local
Rl(config-if) #ipv6 unicast-routing
R1(config) #interface G0/1
R1(config-if) #no shutdown
Rl(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up
%LINEPROTO-S-UPDOWN: Line protocol on Interface GigabitEthernetO/1, changed state to up
R1(config-if) #exit
R1(config) #interface S0/0/0
R1(config-if) #ipv6 address 2001:db8:acad:00cc::1/64
R1(config-if) #ipv6 address fe80::1 link-local
R1(config-if) #ipv6 unicast-routing
R1(config) #interface 50/0/0
R1(config-if) #no shutdown
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to down
R1(config-if)#
```

R2	Denable		^
R2	#config t		
	nter configuration commands, 2(config)#interface G0/0	one per line. End with CNTL/Z.	
	(config-if) #ipv6 address 200	01:db8:acad:00ca::1/64	
	(config-if) #ipv6 address fe8		
	2(config-if)#ipv6 unicast-rou	ting	
	(config)#interface GO/O		
R.2	(config-if) #no shutdown		
22	(config-if)#		
ψI	.INK-5-CHANGED: Interface Gig	abitEthernet0/0, changed state to up	
ŧΙ	LINEPROTO-5-UPDOWN: Line prot	ocol on Interface GigabitEthernetO/O, changed state to up	
R2	(config-if) #interface GO/1		
R2(config-if) #ipv6 address 2001:db8:acad:00cb::1/64			
	(config-if) #ipv6 address fe8		
	?(config-if)#ipv6 unicast-rou ?(config)#interface GO/l	iting	
	(config-if) #no shutdown		
	(config-if)#		
ŧΙ	INK-5-CHANGED: Interface Gig	abitEthernetO/1, changed state to up	
ķI	.INEPROTO-5-UPDOWN: Line prot	ocol on Interface GigabitEthernetO/1, changed state to up	
R.2	(config-if) #exit		
	(config) #interface S0/0/0		
	2(config-if)#ipv6 address 200		
	(config-if) #ipv6 address fe8		
	?(config-if)#ipv6 unicast-rou ?(config)#interface 50/0/0	ting	
	(config-if) #no shutdown		
3	1,100,000		
R2	(config-if)#		
b.I	INK-5-CHANGED: Interface Ser	lal0/0/0, changed state to up	
	(config-if)#		
	THE STATE OF THE S	ocol on Interface Serial0/0/0, changed state to up	
		The second secon	v
	IPv6 Configuration		
	Automatic	○ Static	
	IPv6 Address	2001 DB8 ACAD C8:230 F2FF FEBA 2C3A	/ 64
	Link Local Address	FE80: 230 F2FF FEBA: 2C3A	7.4-7.2

FE80::1

3. IPv6

Default Gateway