You have been given the IPv6 subnet 2001:db8:acad:00c8::/64 as the starting subnet. You will need four more subnets for each network that is required. Increment the subnet addresses consecutively by one to arrive at the four required subnets. Complete the table below.

Subnet Table

|  |  |
| --- | --- |
| Subnet | Address |
| 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 to R2 link network | 2001:db8:acad:00cc::0/64 |

Complete the addressing table above to use as a guide for configuring the devices.

· Assign the first IP address in the subnet to the router LAN interfaces.

· Assign the link-local addresses as designated in the addressing table.

· For the connection between the routers, assign the first address in the subnet to R1.

· For the connection between the routers, assign the second address in the subnet to R2.

· Set all four hosts to automatically configure with IPv6 addresses.

**Router 1 configuration**

======================

en

conf t

ipv6 unicast-routing

int g0/0

ipv6 address 2001:db8:acad:00c8::1/64

ipv6 address fe80::1 link-local

no sh

int g0/1

ipv6 address 2001:db8:acad:00c9::1/64

ipv6 address fe80::1 link-local

no sh

int s0/0/0

ipv6 address 2001:db8:acad:00cc::1/64

ipv6 address fe80::1 link-local

no sh

exit

**Router 2 configuration**

======================

en

conf t

ipv6 unicast-routing

int g0/0

ipv6 address 2001:db8:acad:00ca::1/64

ipv6 address fe80::2 link-local

no sh

int g0/1

ipv6 address 2001:db8:acad:00cb::1/64

ipv6 address fe80::2 link-local

no sh

int s0/0/0

ipv6 address 2001:db8:acad:00cc::2/64

ipv6 address fe80::2 link-local

no sh