PC1

IPv4 Address....................: 10.10.1.100

Subnet Mask.....................: 255.255.255.224

Default Gateway.................: FE80::1

Ipv6

Physical Address................: 0060.47CA.4DEE

Link-local IPv6 Address.........: FE80::260:47FF:FECA:4DEE

IPv6 Address....................: 2001:DB8:1:1::A | 10.10.1.97

Default Gateway.................: FE80::1

PC2

IPv4 Address....................: 10.10.1.20

Subnet Mask.....................: 255.255.255.240

Default Gateway.................: FE80::3

Ipv6

Physical Address................: 0060.7034.6930

Link-local IPv6 Address.........: FE80::260:70FF:FE34:6930

IPv6 Address....................: 2001:DB8:1:4::A | 10.10.1.17

Default Gateway.................: 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? Yes

b.    From **PC2**, ping the IPv4 address for **PC1**. Was the result successful? Yes

**Step 2:     Use ping to verify IPv6 connectivity.**

a.     From **PC1**, ping the IPv6 address for **PC2**. Was the result successful? Yes

b.    From **PC2**, ping the IPv6 address of **PC1**. Was the result successful? Yes

From PC1, trace the route to PC2.

PC> tracert 10.10.1.20

What addresses were encountered along the path? 10.10.1.97, 10.10.1.5, 10.10.1.10, 10.10.1.20

With which interfaces are the four addresses associated? G0/0 of R1, S0/0/0 on R2, S0/0/01 on R3, NIC of PC2

From PC2, trace the route to PC1.

What addresses were encountered along the path? 10.10.1.17, 10.10.1.9, 10.10.1.6, 10.10.1.100

With which interfaces are the four addresses associated? G0/0 of R3, S0/0/1 of R2, S0/0/1 of R1, NIC of PC1

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? 2001:DB8:1:1::1, 2001:DB8:1:2::1, 2001:DB8:1:3::2, 2001:DB8:1:4::A

With which interfaces are the four addresses associated? g0/0 of R1, S0/0/0 of r2, S0/0/1 of R3, NIC of PC2