PC1

IPV4

IPv4 Address....................: 10.10.1.98

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

Default Gateway.................: ::10.10.1.97

PC3

Ipv4

IPv4 Address....................: 10.10.1.18

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

Default Gateway.................: ::10.10.1.17

From PC1, enter the necessary command to trace the route to PC3. What is the last successful IPv4 address that was reached? 10.10.1.97

From PC3, enter the necessary command to trace the route to PC1. What is the last successful IPv4 address that was reached? 10.10.1.17

Enter the show ip interface brief command to list the interfaces and their status. There are two IPv4 addresses on the router. One should have been recorded in Step 2a. What is the other? 10.10.1.6

Enter the show ip route command to list the networks to which the router is connected. Note that there are two networks connected to the Serial0/0/1 interface. What are they? 10.10.1.6/32, 10.10.1.4/30

Repeat step 2e to 2g with R3 and record the answers here. 10.10.1.10, 10.10.1.8/30, 10.10.1.10/32

Compare your answers in Step 2 to the documentation you have available for the network. What is the error? R2’s Serial 0/0/0 interface is configured with the wrong IP address. There is 10.10.1.2, but should be 10.10.1.5

Commands: enable, configure terminal, interface serial 0/0/0, ip address 10.10.1.5, exit

What solution would you propose to correct the problem? Configure the correct IP address on R2’s Serial 0/0/0 interface (10.10.1.5)

PC2

Link-local IPv6 Address.........: FE80::2E0:B0FF:FE35:82B8

IPv6 Address....................: 2001:DB8:1:1::2

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

PC4

Link-local IPv6 Address.........: FE80::206:2AFF:FEBC:7CD4

IPv6 Address....................: 2001:DB8:1:4::2

Default Gateway.................: **FE80::2**

From PC2, enter the necessary command to trace the route to PC4. What is the last successful IPv6 address that was reached? 2001:DB8:1:3::2

From PC4, enter the necessary command to trace the route to PC2. What is the last successful IPv6 address that was reached? No IPv6 address was reached

Compare your answers in Step 2 to the documentation you have available for the network. What is the error? PC4 is using the wrong default gateway configuration.

What solution would you propose to correct the problem? Configure PC4 with the correct default gateway address: FE80::3.

PC4, Desktop, IPV6 config, default gateway changed from FE80::2 to FE80::3