**Networking Challenge—Static Routes**

Use the Network Challenge Software included with the text’s companion CD-ROM to demonstrate that you can configure static routes for a router. Select the Chapter 2—Static Routes challenge. Use the software to demonstrate that you can complete the following tasks.

This challenge requires you to configure the static routes for Router A:

1. Click the Router A select button and press Return to get started.

A screenshot of a computer

Description automatically generated

1. Configure the default gateway address for computerA1 in LAN A (10.10.20.250). To do so, click the computer A1 icon in LAN A to bring up the TCP/IP Properties menu. Click OK on the menu, and press Enter to see the check.

A screenshot of a computer

Description automatically generated

1. Configure the IP addresses for the FastEthernet0/0 and FastEthernet0/1 ports. *Note:* Click the Router A symbol in the topology to display the IP addresses and subnet mask for the router.





1. Use the **no shut** command to enable both FastEthernet ports.

A white background with black text

Description automatically generated

A white background with black text

Description automatically generated

1. Use the **show ip int brief** command to view the current interface status.

A group of black text

Description automatically generated

1. Use the **ip route** command to configure two routes to the 10.10.10.0 network *Note:* Click the RouterB and RouterC symbols in the network topology to display the IP addresses for the router interfaces. (Use a 255.255.255.0 subnet mask.)



1. Use the **show ip route** command to view whether the routes are entered into the router’s routing table.

A computer code with black text

Description automatically generated

1. Use the **show run** command to verify whether the static routes are listed in the router’s running configuration.

A screen shot of a computer

Description automatically generated

1. Use the proper command to set the FA 0/2 for Router A as the exit interface.

A number of numbers and time

Description automatically generated with medium confidence

1. Use the proper command to incorporate null 0 features to prevent network loops to the 10.10.5.0 network.



A black screen with white text

Description automatically generated