**Networking Challenge—RIP (page 84)**

Use the router simulator software included with the text’s companion CD-ROM to demonstrate that you can configure RIP for Router A in the campus LAN. (*Note:* The campus LAN is shown in Figure 2-8 and is displayed on the computer screen if the topology button is selected.)

Select Chapter 2—RIPv2. This opens a checkbox that can be used to verify that you have completed all the tasks:

1. Enter the privileged EXEC mode on the router



2. Enter the router configuration mode: Router(config).



3. Configure the FastEthernet0/0 interface with the following:

IP address: 10.10.20.250

Subnet mask: 255.255.255.0

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4. Enable the FA0/0 interface.



5. Configure the FastEthernet0/1 interface with the following:

IP address: 10.10.200.1

Subnet mask: 255.255.255.0



6. Enable the FA0/1 interface.



7. Configure the FastEthernet0/2 interface with the following:

IP address: 10.10.100.1

Subnet mask: 255.255.255.0



8. Enable the FA0/2 interface.



9. Enable RIP V2.



10. Use the **network** command to specify the class network address to be used by RIP (10.0.0.0).



11. Use the **sh ip int brief** command to check the interface status.

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12. Use the **sh ip protocol** command to see whether RIP is running. (*Note:* This requires that Steps 9 and 10 are complete or the response will be “no protocol.”)

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13. Use the **show ip route** command to verify whether the three FastEthernet ports are connected to the router.

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14. Display the contents of the running-configuration file. Verify that RIP is enabled and the proper network address is specified.

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15. Copy the router’s running-configuration to the startup-configuration.



16. Display the contents of the startup-configuration.

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