**Networking Challenge: EIGRP Isaiah Lugo**

Use the Net-Challenge Simulator Software included with the text’s companion CD-ROM to demonstrate that you can configure EIGRP for Router A in the campus LAN (the campus LAN is shown in Figure 3-2 and is displayed by clicking the View Topology button when the software is started).

**Select Router Challenge** - **Chapter 3—EIGRP**.

Tasks:

1. Enter the privileged EXEC mode on the router.



1. Enter the router configuration mode: **Router(config)**.



1. Set the hostname to **RouterA.**

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

IP address: 10.10.20.250

Subnet mask: 255.255.255.0



1. Enable the FA0/0 interface.



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

IP address: 10.10.200.1

Subnet mask: 255.255.255.0



1. Enable the FA0/1 interface.



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

IP address: 10.10.100.1

Subnet mask: 255.255.255.0



1. Enable the FA0/2 interface.



1. Enable EIGRP with an AS number of 200.



1. Enter the **network** command that enables EIGRP on the router.



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

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1. Use the **sh ip protocol** command to see whether EIGRP is running on Router A.

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1. Use the **sh ip route** command to verify that the three FastEthernet ports are connected to RouterA.

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15. Use the **sh run** command to view the running-configuration file on Router A.

Verify that EIGRP is enabled and the proper network address is specified.

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16. Use the **ping** command to verify connection to the following interfaces:

* 10.10.5.250
* 10.10.150.1
* 10.10.200.2
* 10.10.100.2

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