

- Router Interface Commands, Lab -

Configuring Router Interfaces – Lab

Router Number (assigned by the Instructor): _____

1. Enter *interface configuration* mode for the first Ethernet interface on your router. What command did you use?

2. Bring this interface up from being administratively down. What command did you use?

3. Do the same for the first Serial interface on your router. What commands did you use?

4. Configure the correct IP address for your Ethernet interface (supplied by your instructor). What command(s) did you use?

5. Configure the correct IP address for your Serial interface (supplied by your instructor). What command(s) did you use?

6. View the current status of your interfaces. What command(s) did you use?

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Configuring Router Interfaces – Lab (continued)

7. What is the status of your Serial and Ethernet interfaces?

8. At this point, your serial interface may show a line protocol status of “down”. What additional command must you configure on your Serial interface, to ensure communication with the serial interface of the directly connected router?

9. Should the above command be configured on the connected serial interfaces of *both* routers, or on just one side of the serial cable? If the latter, on what side of the serial cable should this command be used?

10. Set the hostname for your router. Ensure that your router number is reflected somewhere in the hostname, but you can be creative. For example: Aaron_Router2.

11. Set a “description” on both of your interfaces, to document what they are connecting to. What commands did you use?

12. View the configuration file stored in RAM. What command did you use?

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Configuring Router Interfaces – Lab (continued)

13. View the configuration file stored in NVRAM (25xx series router) or Flash (26xx series router). What command did you use?

14. What command would you use to erase the startup configuration?

15. If you erase the startup configuration, what will happen the next time the router is rebooted?

16. Ping your neighbor's router. Did you receive a reply? Can you ping all routers directly connected to you?

17. Can you currently ping routers not directly connected to you? Why or why not?

18. What command will provide you with a brief, summarized view of the status and IP information on your interfaces?

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Configuring Router Interfaces – Lab (continued)

19. Save your router configuration. What command did you use?

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