- 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?

    _____
    _____
    _____

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?

_____
_____
_____

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?

_____
_____
_____

Configuring Router Interfaces – Lab (continued)

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

_____
_____
_____