* **Net-Challenge: OSPF Isaiah Lugo**

1. Enter the privileged EXEC mode on the router.



1. Enter the router’s terminal configuration mode, Router(config).



1. Set the hostname to RouterA.



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

IP address 10.10.20.250

Subnet mask 255.255.255.0



5. 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



7. 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



9. Enable the FA0/2 interface.



10. Enable OSPF with a network number of 100.



11. Use a single command-line instruction to configure RouterA to run OSPF on all three of the FastEthernet interfaces (use area 100).



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

A group of black text

Description automatically generated

13. Use the sh ip protocol command to see whether OSPF is running on RouterA.

A screenshot of a computer

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

A computer screen shot of a route

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15. Use the sh run command to view the running-configuration file on RouterA. Verify that OSPF is enabled and the proper network address is specified.

A screenshot of a computer

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16. The preferred route to reach the 10.10.150.0 network is via RouterB. Issue the command to increase the OSPF cost of the interface connected to RouterC to 5 using *ip ospf cost*command.



A screenshot of a computer

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