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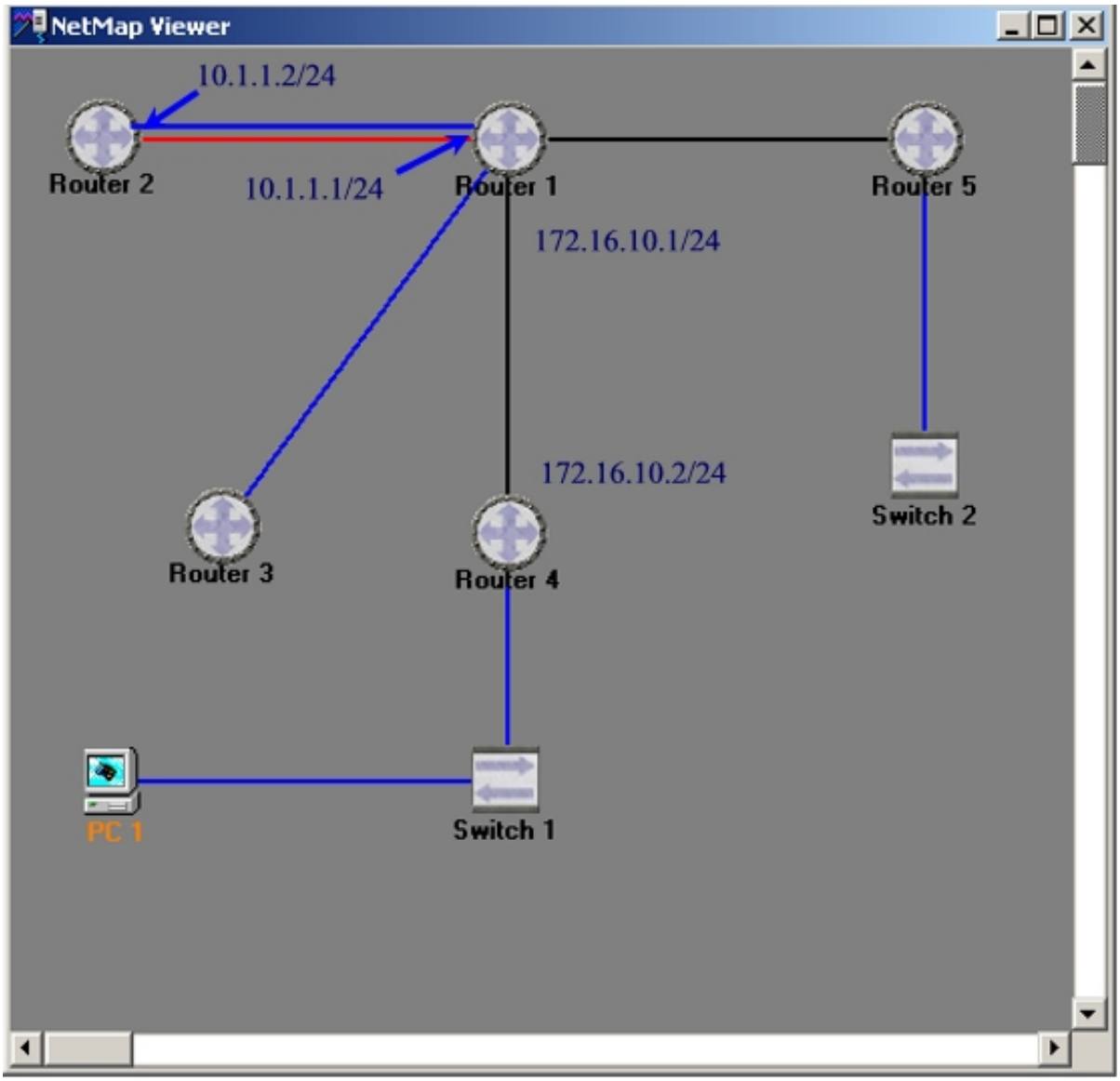
Objective**:** We will configure Routers 1, 2, and 4 with IP addresses and ping between them to test connectivity.



Configuring IP Addresses:

1. First you want to connect to router one and assign a hostname of eRouter1

eRouter1(config)#

2. What mode must you be in to set the IP address on an interface?

eRouter1(config-if)#

3. What command will set the IP address on the Ethernet 0 interface to 10.1.1.1 255.255.255.0?

eRouter1(config-if)#ip address 10.1.1.1 255.255.255.0

4. Now you need to enable the interface. What command did you use?

eRouter1(config-if)#no shutdown

5. Now set the IP address on the S0 interface of eRouter1 to 172.16.10.1 255.255.255.0

eRouter1(config-if)#no shut

6. Next click on the button eRouter2 at the top of your screen.

7. Assign a hostname of eRouter2.

Router(config)#hostname eRouter2

8. Set the IP address for the Ethernet 0 interface to 10.1.1.2 255.255.255.0

eRouter2(config-if)#ip address 10.1.1.2 255.255.255.0

9. Enable the interface.

eRouter2(config-if)#no shutdown

10. Now click on the button eRouter4 at the top of your screen.

11. Assign an Hostname of eRouter4 and an IP address of 172.16.10.2 255.255.255.0 on the serial 0 interface.

eRouter4(config-if)#ip address 172.16.10.2 255.255.255.0

12. Make sure you enable the interface.

eRouter4(config-if)#no shutdown

13. Connect back to eRouter1

14. Try and ping eRouter2's Ethernet interface

eRouter1#ping 10.1.1.2

15. Try and ping eRouter4's Serial 0 interface.

eRouter1#ping 172.16.10.2

16. What command will let you verify that your interfaces line state and protocol state are up?

eRouter#show ip interface brief

17. View your running configuration and verify that the IP addresses appear.

eRouter#show running-config

18. View detailed IP information about each interface.

eRouter#show ip interface

IP ADDRESSES LAB

This is equivalent to the lab above with the exception that it does not give you the answers as you complete each step.

1. First you want to connect to router one assign a hostname of eRouter1. What command did you use? Seleccionar Router1: enable || conf t || hostname eRouter1

2. What mode must you be in to set the IP address on an interface? eRouter1 (config-if)#

3. What command will set the IP address on the Ethernet 0 interface to 10.1.1.1 255.255.255.0? ip address 10.1.1.1 255.255.255.0

4. Now you need to enable the interface. What command did you use? no shutdown

5. Now set the IP address on the S0 interface of eRouter1 to 172.16.10.1 255.255.255.0? What command will do this? interface serial0 || ip address 172.16.10.1 255.255.255.0 || no shutdown

6. Next click on the button eRouter2 at the top of your screen.

7. Assign a hostname of eRouter2. What command did you use? hostname eRouter2

8. Set the IP address for the Ethernet 0 interface to 10.1.1.2 255.255.255.0. What command did you use? interface ethernet0 || ip address 10.1.1.2 255.255.255.0

9. Enable the interface. What command does this? no shutdown

10. Now click on the button eRouter4 at the top of your screen.

11. Assign an IP address of 172.16.10.2 255.255.255.0 on the serial 0 interface. What command did you use? ip address 172.16.10.2 255.255.255.0

12. Make sure you enable the interface. What command did you use? no shutdown

13. Connect back to eRouter1

14. Try and ping eRouter2's Ethernet interface What command allows you to ping? ping 10.1.1.2

15. Try and ping eRouter4's Serial 0 interface. What address is the Serial 0 interface? ping 172.16.10.2

16. What command will let you verify that your interfaces are up and up? show ip interface brief

17. View your running configuration and verify that the IP addresses appear. What command allows you to view your running-configuration? show running-configuration

18. View detailed IP information about each interface. What command will do this?
show ip interface