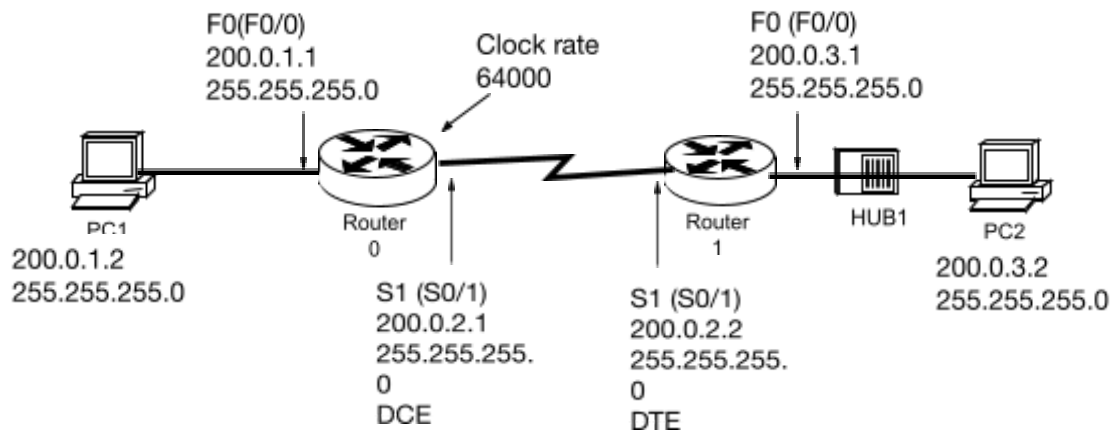


Lab 2.7: Network Configurations (RIP routing protocol)



Setup a network similar to the one in the diagram. Any router that meets the interface requirements displayed in the above diagram, such as 800, 1600, 1700, 2500, 2600 routers, or a combination, may be used.

Step 1. Adding RIP routing protocol.

- In global configuration mode , add RIP route on Router0 to network 200.0.3.0 and on Router1 to network 200.0.1.0

Router0(config)# _____

Router0(config-router)# _____

Router0(config-router)# _____

Router1(config)# _____

Router1(config-router)# _____

Router1(config-router)# _____

Step 2. Verify the new route

- Use the command **show ip route** , view the IP routing table for Router0 and Router1.

What are in the IP routing table for Router0?

What are in the IP routing table for Router1?

- What network that Router0 learn from EIGRP routing protocol?

What network that Router1 learn from EIGRP routing protocol?

Step 3. Save the router configuration

Router0# *copy running-config startup-config*

Router1# *copy running-config startup-config*

Step 4. Using ping command to verify routes from PC1.

Destination	Success (y/n)
200.0.1.1	
200.0.2.2	
200.0.3.1	
200.0.3.2	

Step 5. Using ping command to verify routes from PC2.

Destination	Success (y/n)
200.0.3.1	
200.0.2.1	
200.0.1.1	
200.0.1.2	

Step 6. Remove RIP routes on Router0 and Router1.

Router0(config)# _____

Router1(config)# _____

Try to ping from PC1 to PC2 , success or not ?(y/n)_____

Step 7. Remove the startup-config

Router0# *erase startup-config*

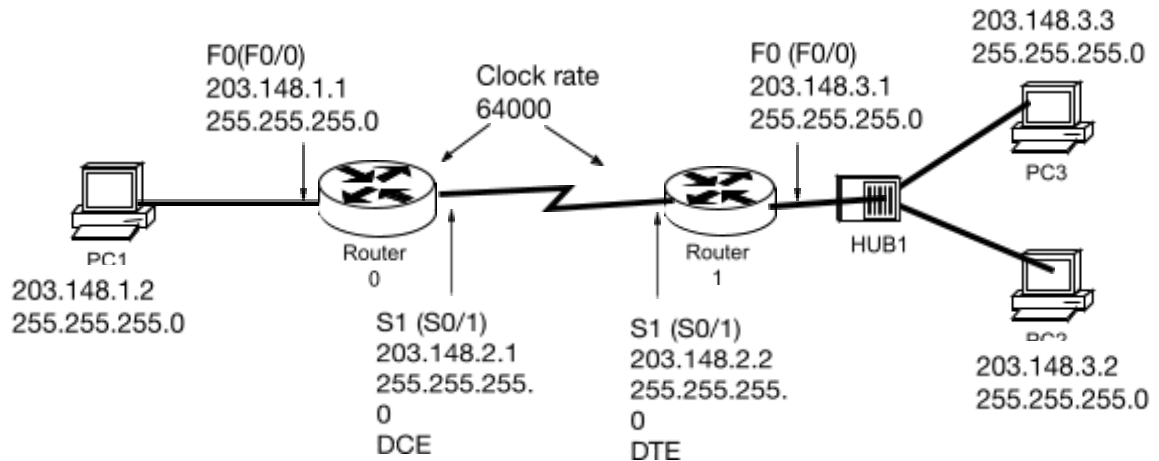
Router1# *erase startup-config*

Step 8. Restart the router

Router0# *reload*

Router1# *reload*

Lab 2.8 : Network Configurations (EIGRP routing protocol)



Setup a network similar to the one in the diagram. Any router that meets the interface requirements displayed in the above diagram, such as 800, 1600, 1700, 2500, 2600 routers, or a combination, may be used.

Step 1. Adding EIGRP routing protocol. AS number 100

- In global configuration mode , add EIGRP routing protocol on Router0
 Router0(config)# _____
 Router0(config-router)# _____
 Router0(config-router)# _____
- In global configuration mode , add EIGRP routing protocol on Router1
 Router1(config)# _____
 Router1(config-router)# _____
 Router1(config-router)# _____

Step 2. Save the router configuration

Router0# _____
 Router1# _____

Step 3. Verify the new route

- Use the command **show ip route** , view the IP routing table for Router0 and Router1.

What are in the IP routing table for Router0?

What are in the IP routing table for Router1?

What network that Router0 learn from EIGRP routing protocol?

What network that Router1 learn from EIGRP routing protocol?

Step 4. Using ping command to verify routes from PC1.

Destination	Success (y/n)
203.148.1.1	
203.148.2.2	
203.148.3.1	
203.148.3.2	

Step 5. Using ping command to verify routes from PC2.

Destination	Success (y/n)
203.148.3.1	
203.148.2.1	
203.148.1.1	
203.148.1.2	

Step 6. Remove EIGRP routing protocol on Router0 and Router1.

Router0(config)# _____

Router1(config)# _____

Try to ping from PC1 to PC2 , success or not ?(y/n) _____

Step 7. Remove the startup-config

Router0# *erase startup-config*

Router1# *erase startup-config*

Step 8. Restart the router

Router0# *reload*

Router1# *reload*