Exercise – 13 BGP Protocol

Aim

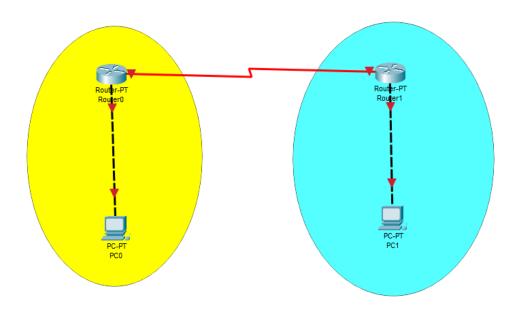
To Configuring BGP protocol

Pre-requisite:

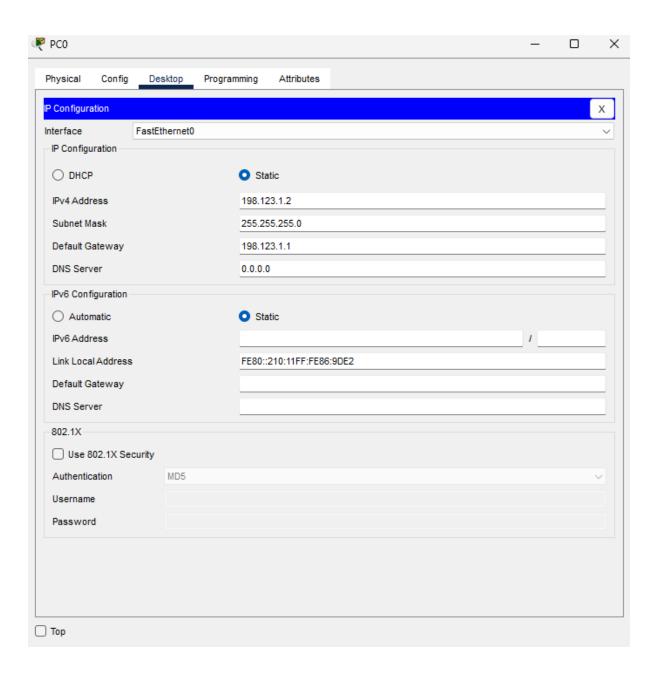
BGP protocol

Procedure:

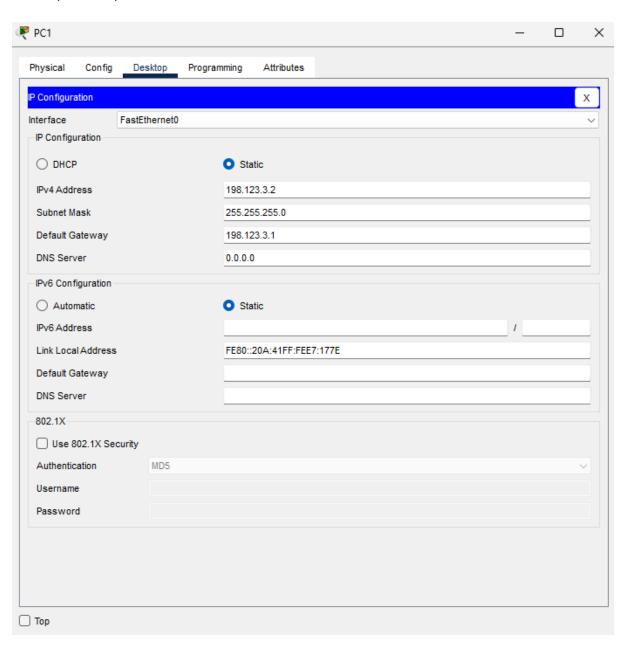
- 1. From the Network Devices category, select routers, and from the devices drag 2 routers and 2 PC into the workspace.
- 2. Using the serial DTE cable connect the routers
- 3. Connect routers using serial DTE cables and connect the PC using copper cross over cables



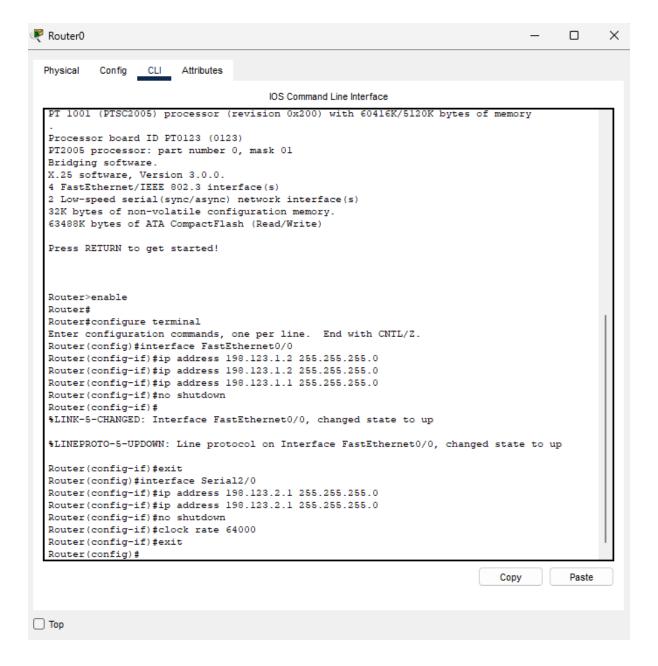
4. Set the IP address of PC0 using ip config



5. Similarly set the Ip address for PC1

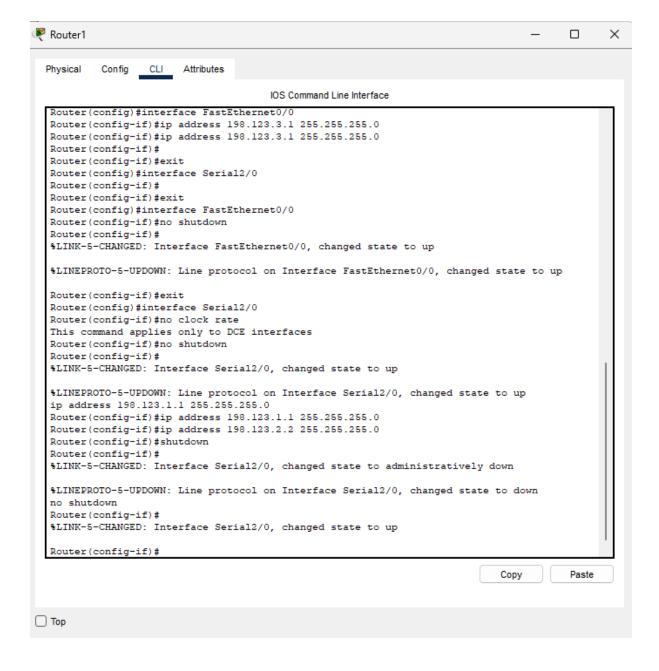


- 6. Use the following commands to setup router0
 - En
 - Config t
 - interface FastEthernet0/0
 - ip address 198. 123.1.1 255.255.255.0
 - no shut
 - interface Serial2/0
 - ip address 198.123.2.1 255.255.255.0
 - no shutdown
 - clock rate 64000

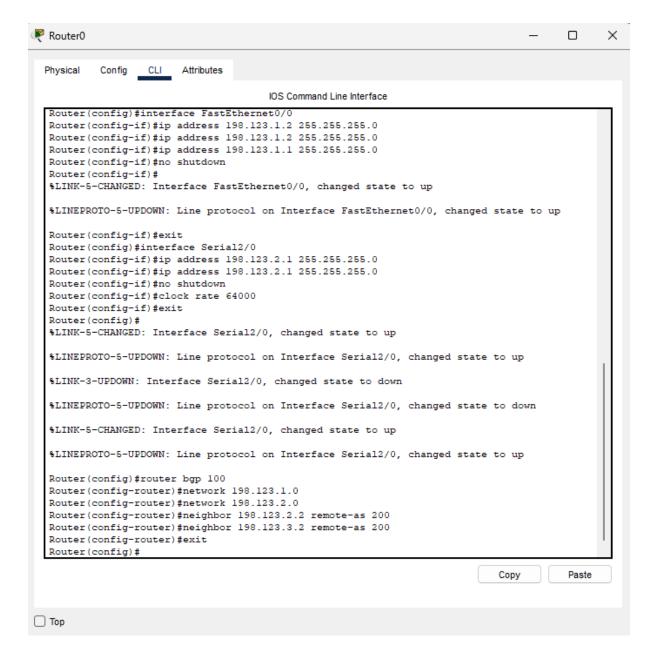


7. Use the following to setup Router R1

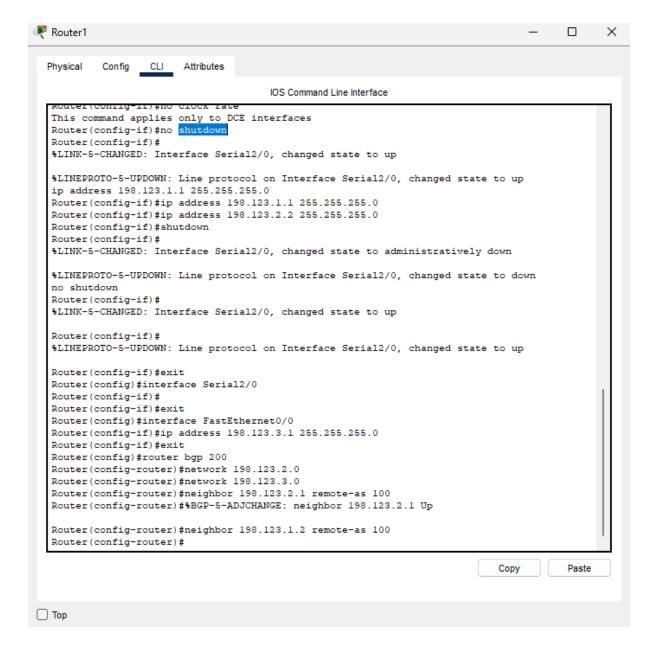
- En
- Config t
- interface FastEthernet0/0
- ip address 198.123.3.1 255.255.255.0
- no shut
- interface Serial2/0
- ip address 198.123.2.2 255.255.255.0
- no shutdown
- clock rate 64000



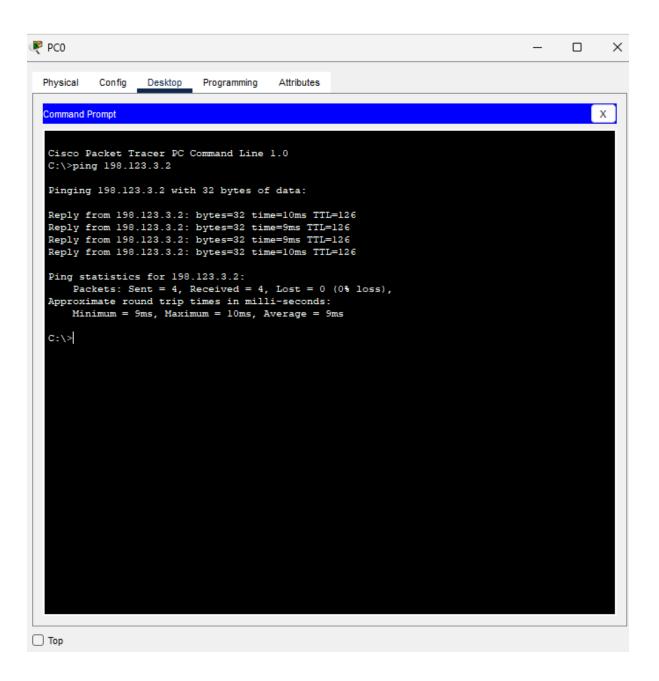
- 8. To setup BGP protocol use the following commands on Router RO :--
 - Router bgp 100
 - Network 198.123.1.0
 - Network 198.123.2.0
 - Neighbor 198.123.2.2 remote-as 200
 - Neighbor 198.123.3.2 remote-as 200
 - Exit



- 9. To setup BGP protocol use the following commands on Router R2:--
 - Router bgp 200
 - Network 198.123.2.0
 - Network 198.123.3.0
 - Neighbor 198.123.2.1 remote-as 100
 - Neighbor 198.123.1.2 remote-as 100
 - Exit



- 10. To test the connection the between the two pc's use ping command
 - Ping 198.123.3.2 from PC0
 - Ping 198.123.1.2 from PC1



```
₹ PC1
                                                                                                                                     ×
  Physical Config Desktop Programming
                                                            Attributes
                                                                                                                                          Х
   Command Prompt
   Cisco Packet Tracer PC Command Line 1.0 C:\>ping 198.123.1.2
   Pinging 198.123.1.2 with 32 bytes of data:
   Reply from 198.123.1.2: bytes=32 time=11ms TTL=126
Reply from 198.123.1.2: bytes=32 time=12ms TTL=126
Reply from 198.123.1.2: bytes=32 time=10ms TTL=126
   Reply from 198.123.1.2: bytes=32 time=19ms TTL=126
   Ping statistics for 198.123.1.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
         Minimum = 10ms, Maximum = 19ms, Average = 13ms
   C:\>
□ Тор
```

Conclusion

We have successfully configured BGP Protocol on two router using cisco packet tracer