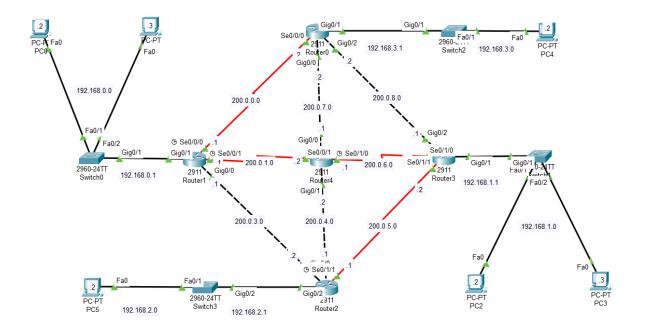
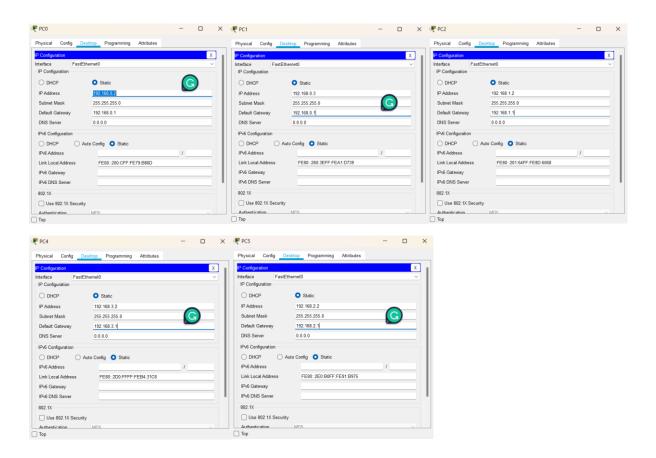
NAME: REIMARC G. CORPUZ DATE: APRIL 15, 2023

YR. & COURSE: BSCPE 3 IE

Laboratory Activity #5Dynamic Routing Protocol (OSPF)



PC Addressing



```
Router#show ip int brief
ROUTER RO
                                                                                                                                             Protocol
                                          unassigned
                                                                          YES unset administratively down down YES unset administratively down down
Serial0/1/1
 Serial0/2/0
                                            unassigned
                                          unassigned
                                                                          YES unset administratively down down
Serial0/2/1
                                          unassigned
                                                                          YES unset administratively down down
Serial0/3/0
 Serial0/3/1
                                         unassigned
                                                                          YES unset administratively down down
                                                                         YES unset administratively down down
Vlanl
                                            unassigned
Router# show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
             D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
             N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
             {\tt E1} - OSPF external type 1, {\tt E2} - OSPF external type 2, {\tt E} - {\tt EGP}
              i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
              * - candidate default, U - per-user static route, o - ODR
              P - periodic downloaded static route
Gateway of last resort is not set
          192.168.0.0/24 is variably subnetted, 2 subnets, 2 masks
C
              192.168.0.0/24 is directly connected, GigabitEthernet0/1
               192.168.0.1/32 is directly connected, GigabitEthernet0/1
0
         192.168.1.0/24 [110/66] via 200.0.0.2, 00:26:50, Serial0/0/0
         192.168.2.0/24 [110/2] via 200.0.3.2, 00:29:30, GigabitEthernet0/0
0
         192.168.3.0/24 [110/65] via 200.0.0.2, 00:27:11, Serial0/0/0
         200.0.0.0/24 is variably subnetted, 2 subnets, 2 masks
C.
              200.0.0.0/24 is directly connected, Serial0/0/0
               200.0.0.1/32 is directly connected, Serial0/0/0
         200.0.1.0/24 is variably subnetted, 2 subnets, 2 masks
С
              200.0.1.0/24 is directly connected, Serial0/0/1
                200.0.1.1/32 is directly connected, Serial0/0/1
L
         200.0.3.0/24 is variably subnetted, 2 subnets, 2 masks
C:
             200.0.3.0/24 is directly connected, GigabitEthernet0/0
L
               200.0.3.1/32 is directly connected, GigabitEthernet0/0
         200.0.4.0/24 [110/2] via 200.0.3.2, 00:21:16, GigabitEthernet0/0
0
          200.0.5.0/24 [110/65] via 200.0.3.2, 00:29:04, GigabitEthernet0/0
0
          200.0.6.0/24 [110/128] via 200.0.1.2, 00:13:10, Serial0/0/1
         200.0.7.0/24 [110/65] via 200.0.0.2, 00:13:10, Serial0/0/0
0
                                   [110/65] via 200.0.1.2, 00:13:10, Serial0/0/1
```

200.0.8.0/24 [110/65] via 200.0.0.2, 00:26:50, Serial0/0/0

```
Router#show ip int brief
                      IP-Address
Interface
                                        OK? Method Status
                                                                           Protocol
GigabitEthernet0/0
                       200.0.7.2
                                        YES manual up
                      192.168.3.1
                                        YES manual up
GigabitEthernet0/1
                                                                           up
GigabitEthernet0/2 200.0.8.2
                                       YES manual up
                                                                           นท
Serial0/0/0
                      200.0.0.2
                                       YES manual up
                       unassigned YES unset administratively down down unassigned YES unset administratively down down unassigned YES unset administratively down down
Serial0/0/1
Serial0/1/0
Serial0/1/1
                                       YES unset administratively down down
Serial0/2/0
                       unassigned
Serial0/2/1
                       unassigned
                                       YES unset administratively down down
Serial0/3/0
                       unassigned
                                       YES unset administratively down down
                       unassigned
Serial0/3/1
                                        YES unset administratively down down
                                        YES unset administratively down down
Vlanl
                        unassigned
Router#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       {\tt N1} - OSPF NSSA external type 1, {\tt N2} - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
Gateway of last resort is not set
     192.168.0.0/24 [110/65] via 200.0.0.1, 00:28:37, Serial0/0/0
     192.168.1.0/24 [110/2] via 200.0.8.1, 00:28:17, GigabitEthernet0/2
0
    192.168.2.0/24 [110/66] via 200.0.0.1, 00:28:37, Serial0/0/0
     192.168.3.0/24 is variably subnetted, 2 subnets, 2 masks
        192.168.3.0/24 is directly connected, GigabitEthernet0/1
C:
L
        192.168.3.1/32 is directly connected, GigabitEthernet0/1
     200.0.0/24 is variably subnetted, 2 subnets, 2 masks
C
       200.0.0.0/24 is directly connected, Serial0/0/0
        200.0.0.2/32 is directly connected, Serial0/0/0
     200.0.1.0/24 [110/65] via 200.0.7.1, 00:14:36, GigabitEthernet0/0
0
     200.0.3.0/24 [110/65] via 200.0.0.1, 00:28:37, Serial0/0/0 200.0.4.0/24 [110/66] via 200.0.0.1, 00:22:42, Serial0/0/0
0
     200.0.5.0/24 [110/129] via 200.0.0.1, 00:28:37, Serial0/0/0
0
    200.0.6.0/24 [110/65] via 200.0.8.1, 00:14:36, GigabitEthernet0/2
                  [110/65] via 200.0.7.1, 00:14:36, GigabitEthernet0/0
     200.0.7.0/24 is variably subnetted, 2 subnets, 2 masks
С
        200.0.7.0/24 is directly connected, GigabitEthernet0/0
        200.0.7.2/32 is directly connected, GigabitEthernet0/0
L
     200.0.8.0/24 is variably subnetted, 2 subnets, 2 masks
С
        200.0.8.0/24 is directly connected, GigabitEthernet0/2
т.
        200.0.8.2/32 is directly connected, GigabitEthernet0/2
```

```
Router#show ip int brief
                                  OK? Method Status
YES manual up
                     IP-Address
Interface
                                                                     Protocol
GigabitEthernet0/0
                    200.0.3.2
GigabitEthernet0/1 200.0.4.1
                                    YES manual up
GigabitEthernet0/2 192.168.2.1 YES manual up
                                                                      up
                     unassigned
Serial0/0/0
                                     YES unset administratively down down
Serial0/0/1
                     unassigned
                                     YES unset administratively down down
                                    YES unset administratively down down
                     unassigned
Serial0/1/0
                                    YES manual up
Serial0/1/1
                    200.0.5.1
Serial0/2/0
                    unassigned
                                    YES unset administratively down down
                                    YES unset administratively down down
Serial0/2/1
                     unassigned
Serial0/3/0
                                     YES unset administratively down down
                     unassigned
                     unassigned
                                    YES unset administratively down down
Serial0/3/1
Vlan1
                     unassigned
                                    YES unset administratively down down
Router#show ip rout
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
      D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
      E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
      i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
      P - periodic downloaded static route
Gateway of last resort is not set
    192.168.0.0/24 [110/2] via 200.0.3.1, 00:31:43, GigabitEthernet0/0
    192.168.1.0/24 [110/67] via 200.0.3.1, 00:29:07, GigabitEthernet0/0
0
    192.168.2.0/24 is variably subnetted, 2 subnets, 2 masks
C
       192.168.2.0/24 is directly connected, GigabitEthernet0/2
       192.168.2.1/32 is directly connected, GigabitEthernet0/2
т.
    192.168.3.0/24 [110/66] via 200.0.3.1, 00:29:17, GigabitEthernet0/0
0
    200.0.0.0/24 [110/65] via 200.0.3.1, 00:31:43, GigabitEthernet0/0
    200.0.1.0/24 [110/65] via 200.0.3.1, 00:24:06, GigabitEthernet0/0
0
    200.0.3.0/24 is variably subnetted, 2 subnets, 2 masks
C
       200.0.3.0/24 is directly connected, GigabitEthernet0/0
       200.0.3.2/32 is directly connected, GigabitEthernet0/0
L
    200.0.4.0/24 is variably subnetted, 2 subnets, 2 masks
C
      200.0.4.0/24 is directly connected, GigabitEthernet0/1
L
       200.0.4.1/32 is directly connected, GigabitEthernet0/1
    200.0.5.0/24 is variably subnetted, 2 subnets, 2 masks
C:
      200.0.5.0/24 is directly connected, Serial0/1/1
       200.0.5.1/32 is directly connected, Serial0/1/1
0
    200.0.6.0/24 [110/129] via 200.0.3.1, 00:15:26, GigabitEthernet0/0
0
    200.0.7.0/24 [110/66] via 200.0.3.1, 00:15:36, GigabitEthernet0/0
```

200.0.8.0/24 [110/66] via 200.0.3.1, 00:29:07, GigabitEthernet0/0

```
Router#show ip int brief
                                   OK? Method Status
                     IP-Address
GigabitEthernet0/0
                   unassigned
                                    YES unset administratively down down
GigabitEthernet0/1
                   192.168.1.1
                                     YES manual up
GigabitEthernet0/2
                     200.0.8.1
                                     YES manual up
                                                                      up
                     unassigned
                                    YES unset administratively down down
Serial0/0/0
Serial0/0/1
                     unassigned YES unset administratively down down
Serial0/1/0
                     200.0.6.2
                                    YES manual up
Serial0/1/1
                                    YES manual up
                     unassigned
                                                                      up
Serial0/2/0
                     unassigned
                                     YES unset administratively down down
Serial0/2/1
                     unassigned
                                     YES unset administratively down down
                                    YES unset administratively down down
                     unassigned
Serial0/3/0
Serial0/3/1
                     unassigned
                                    YES unset administratively down down
Vlanl
                      unassigned
                                    YES unset administratively down down
Router#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
Gateway of last resort is not set
0
     192.168.0.0/24 [110/66] via 200.0.8.2, 00:30:16, GigabitEthernet0/2
     192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks
Ċ.
       192.168.1.0/24 is directly connected, GigabitEthernet0/1
       192.168.1.1/32 is directly connected, GigabitEthernet0/1
L
    192.168.2.0/24 [110/67] via 200.0.8.2, 00:30:16, GigabitEthernet0/2
    192.168.3.0/24 [110/2] via 200.0.8.2, 00:30:16, GigabitEthernet0/2
0
0
    200.0.0.0/24 [110/65] via 200.0.8.2, 00:30:16, GigabitEthernet0/2
     200.0.1.0/24 [110/66] via 200.0.8.2, 00:16:31, GigabitEthernet0/2
0
    200.0.3.0/24 [110/66] via 200.0.8.2, 00:30:16, GigabitEthernet0/2
0
    200.0.4.0/24 [110/67] via 200.0.8.2, 00:24:37, GigabitEthernet0/2
0
    200.0.5.0/24 [110/130] via 200.0.8.2, 00:30:16, GigabitEthernet0/2
    200.0.6.0/24 is variably subnetted, 2 subnets, 2 masks
C
       200.0.6.0/24 is directly connected, Serial0/1/0
L
       200.0.6.2/32 is directly connected, Serial0/1/0
    200.0.7.0/24 [110/2] via 200.0.8.2, 00:16:41, GigabitEthernet0/2
0
    200.0.8.0/24 is variably subnetted, 2 subnets, 2 masks
С
       200.0.8.0/24 is directly connected, GigabitEthernet0/2
```

200.0.8.1/32 is directly connected, GigabitEthernet0/2

```
Router#show ip int brief
                     IP-Address
                                    OK? Method Status
Interface
                                                                       Protocol
GigabitEthernet0/0
                     200.0.7.1
                                    YES manual up
GigabitEthernet0/1 unassigned unassigned unassigned
                                    YES manual up
                                      YES unset administratively down down
                                      YES unset administratively down down
                                    YES manual up
Serial0/0/1
                      200.0.1.2
Serial0/1/0
                     200.0.6.1
                                    YES manual up
                                                                       up
Serial0/1/1
                     unassigned
                                     YES unset administratively down down
Seria10/2/0
                     unassigned
                                     YES unset administratively down down
Seria10/2/1
                      unassigned
                                      YES unset administratively down down
                                     YES unset administratively down down
Serial0/3/0
                      unassigned
Serial0/3/1
                      unassigned
                                     YES unset administratively down down
                      unassigned
                                    YES unset administratively down down
Router#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
      E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
Gateway of last resort is not set
     192.168.0.0/24 [110/65] via 200.0.1.1, 00:17:37, Serial0/0/1
0
    192.168.1.0/24 [110/3] via 200.0.7.2, 00:17:47, GigabitEthernet0/0
0
0
     192.168.2.0/24 [110/66] via 200.0.1.1, 00:17:37, Serial0/0/1
    192.168.3.0/24 [110/2] via 200.0.7.2, 00:17:47, GigabitEthernet0/0
0
0
    200.0.0.0/24 [110/65] via 200.0.7.2, 00:17:47, GigabitEthernet0/0
    200.0.1.0/24 is variably subnetted, 2 subnets, 2 masks
C:
       200.0.1.0/24 is directly connected, Serial0/0/1
Τ.
        200.0.1.2/32 is directly connected, Serial0/0/1
0
     200.0.3.0/24 [110/65] via 200.0.1.1, 00:17:37, Serial0/0/1
    200.0.4.0/24 [110/66] via 200.0.1.1, 00:17:37, Serial0/0/1
0
    200.0.5.0/24 [110/129] via 200.0.1.1, 00:17:37, Serial0/0/1
    200.0.6.0/24 is variably subnetted, 2 subnets, 2 masks
С
       200.0.6.0/24 is directly connected, Serial0/1/0
       200.0.6.1/32 is directly connected, Serial0/1/0
    200.0.7.0/24 is variably subnetted, 2 subnets, 2 masks
С
       200.0.7.0/24 is directly connected, GigabitEthernet0/0
        200.0.7.1/32 is directly connected, GigabitEthernet0/0
```

200.0.8.0/24 [110/2] via 200.0.7.2, 00:17:47, GigabitEthernet0/0