TP OSPF

Partie 2

Etape 3 :

```
R1#show ip route ospf
O    192.168.2.0 [110/65] via 192.168.12.2, 00:05:00, Serial0/0/0
O    192.168.3.0 [110/65] via 192.168.13.2, 00:03:29, Serial0/0/1
     192.168.23.0/30 is subnetted, 1 subnets
O       192.168.23.0 [110/128] via 192.168.12.2, 00:03:19, Serial0/0/0
                     [110/128] via 192.168.13.2, 00:03:19, Serial0/0/1

R1#
```

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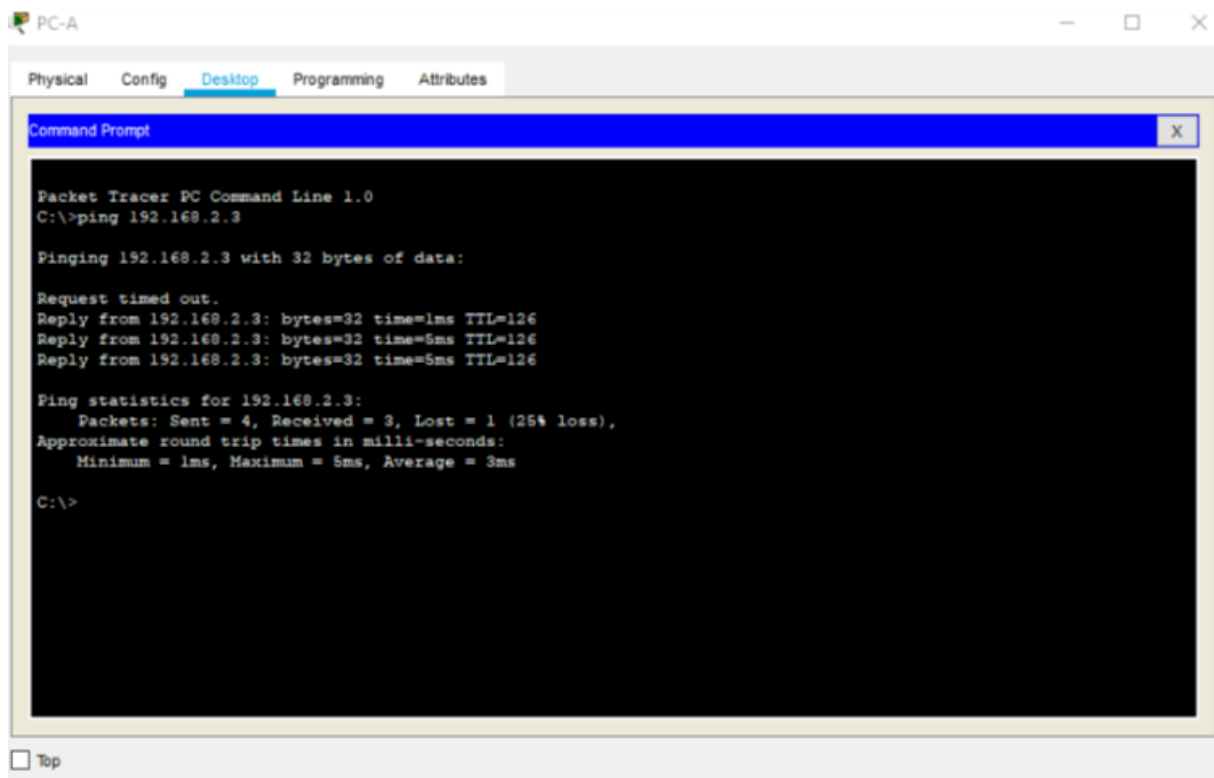## Etape 6 :

```
R1#show ip ospf interface

GigabitEthernet0/0 is up, line protocol is up
  Internet address is 192.168.1.1/24, Area 0
  Process ID 1, Router ID 192.168.13.1, Network Type BROADCAST, Cost: 1
  Transmit Delay is 1 sec, State DR, Priority 1
  Designated Router (ID) 192.168.13.1, Interface address 192.168.1.1
  No backup designated router on this network
  Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
    Hello due in 00:00:09
  Index 1/1, flood queue length 0
  Next 0x0(0)/0x0(0)
  Last flood scan length is 1, maximum is 1
  Last flood scan time is 0 msec, maximum is 0 msec
  Neighbor Count is 0, Adjacent neighbor count is 0
  Suppress hello for 0 neighbor(s)
Serial0/0/0 is up, line protocol is up
  Internet address is 192.168.12.1/30, Area 0
  Process ID 1, Router ID 192.168.13.1, Network Type POINT-TO-POINT, Cost: 64
  Transmit Delay is 1 sec, State POINT-TO-POINT, Priority 0
  No designated router on this network
  No backup designated router on this network
  Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
    Hello due in 00:00:09
  Index 2/2, flood queue length 0
```

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Etape 7 :

Partie 3

Etape 1 :

```
R1#show ip ospf neighbor


Neighbor ID    Pri   State        Dead Time   Address        Interface
2.2.2.2          0   FULL/   -    00:00:39    192.168.12.2   Serial0/0/0
3.3.3.3          0   FULL/   -    00:00:35    192.168.13.2   Serial0/0/1
R1#
```

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Etape 2 :

```
R1#show ip protocols

Routing Protocol is "ospf 1"
  Outgoing update filter list for all interfaces is not set
  Incoming update filter list for all interfaces is not set
  Router ID 11.11.11.11
  Number of areas in this router is 1. 1 normal 0 stub 0 nssa
  Maximum path: 4
  Routing for Networks:
    192.168.1.0 0.0.0.255 area 0
    192.168.12.0 0.0.0.3 area 0
    192.168.13.0 0.0.0.3 area 0
```

```
R1#show ip ospf neighbor


Neighbor ID    Pri   State        Dead Time   Address        Interface
22.22.22.22      0   FULL/   -    00:00:36    192.168.12.2   Serial0/0/0
33.33.33.33      0   FULL/   -    00:00:35    192.168.13.2   Serial0/0/1
R1#
```

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Partie 4

Etape 1 :

```
R1#show ip ospf interface gigabitEthernet 0/0

GigabitEthernet0/0 is up, line protocol is up
  Internet address is 192.168.1.1/24, Area 0
  Process ID 1, Router ID 11.11.11.11, Network Type BROADCAST, Cost: 1
  Transmit Delay is 1 sec, State WAITING, Priority 1
  No designated router on this network
  No backup designated router on this network
  Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
    No Hellos (Passive interface)
  Index 1/1, flood queue length 0
  Next 0x0(0)/0x0(0)
  Last flood scan length is 1, maximum is 1
  Last flood scan time is 0 msec, maximum is 0 msec
  Neighbor Count is 0, Adjacent neighbor count is 0
  Suppress hello for 0 neighbor(s)
R1#
```

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```
R2#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

       2.0.0.0/32 is subnetted, 1 subnets
C         2.2.2.2/32 is directly connected, Loopback0
O      192.168.1.0/24 [110/65] via 192.168.12.1, 00:06:24, Serial0/0/0
       192.168.2.0/24 is variably subnetted, 2 subnets, 2 masks
C         192.168.2.0/24 is directly connected, GigabitEthernet0/0
L         192.168.2.1/32 is directly connected, GigabitEthernet0/0
O      192.168.3.0/24 [110/65] via 192.168.23.2, 00:05:03, Serial0/0/1
       192.168.12.0/24 is variably subnetted, 2 subnets, 2 masks
C         192.168.12.0/30 is directly connected, Serial0/0/0
L         192.168.12.2/32 is directly connected, Serial0/0/0
```

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Etape 2 :

```
R1#show ip ospf neighbor
00:13:27: %OSPF-5-ADJCHG: Process 1, Nbr 22.22.22.22 on Serial0/0/0 from FULL to DOWN, Neighbor
Down: Dead timer expired

00:13:27: %OSPF-5-ADJCHG: Process 1, Nbr 22.22.22.22 on Serial0/0/0 from FULL to DOWN, Neighbor
Down: Interface down or detached

R1#show ip ospf neighbor



Neighbor ID     Pri   State        Dead Time   Address         Interface
33.33.33.33       0   FULL/  -     00:00:38    192.168.13.2    Serial0/0/1
R1#
```

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g)

  i.   s0/0/0
 ii.   129
iii.   Oui
iv.   Non
 v.   Tout le trafic à 192.168.2.0/24 sera acheminé via le routeur 1 car
       l'interface s0/0/1 est encore passive donc les informations ospf ne passent
       pas via cette interface.

i)

```
R2(config-router)#no passive-interface s
R2(config-router)#no passive-interface serial 0/0/1
R2(config-router)#end
R2#
%SYS-5-CONFIG_I: Configured from console by console

R2#cop
R2#copy ru
```

h)

   i.   s0/0/1

  ii.   65. Le cout de liaison série entre R3 et R2 est 64 + 1 pour atteindre le réseau 192.168.2.0/24

 iii.   oui