

TP 7

Route configurées de R1 :

```
!  
ip classless  
ip route 192.168.2.0 255.255.255.0 172.16.2.2  
ip route 192.168.1.0 255.255.255.0 172.16.2.2  
ip route 172.16.1.0 255.255.255.0 172.16.2.2  
!
```

Table de routage de R1:

```
172.16.0.0/24 is subnetted, 3 subnets  
S    172.16.1.0 [1/0] via 172.16.2.2  
C    172.16.2.0 is directly connected, Serial0/0/0  
C    172.16.3.0 is directly connected, FastEthernet0/0  
S    192.168.1.0/24 [1/0] via 172.16.2.2  
S    192.168.2.0/24 [1/0] via 172.16.2.2
```

Route configurées de R2 :

```
interface FastEthernet0/0  
  mac-address 0007.eca7.1511  
  ip address 172.16.1.1 255.255.255.0  
  duplex auto  
  speed auto  
!  
interface FastEthernet0/1  
  mac-address 0001.42dd.a220  
  no ip address  
  duplex auto  
  speed auto  
  shutdown  
!  
interface Serial0/0/0  
  ip address 172.16.2.2 255.255.255.0  
!  
interface Serial0/0/1  
  ip address 192.168.1.2 255.255.255.0  
  clock rate 64000  
!  
interface Vlan1  
  no ip address  
  shutdown  
!  
ip classless  
ip route 172.16.3.0 255.255.255.0 Serial0/0/0  
ip route 192.168.2.0 255.255.255.0 Serial0/0/1  
!
```

Table de routage de R2:

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```
Gateway of last resort is not set

172.16.0.0/24 is subnetted, 3 subnets
C    172.16.1.0 is directly connected, FastEthernet0/0
C    172.16.2.0 is directly connected, Serial0/0/0
S    172.16.3.0 is directly connected, Serial0/0/0
C    192.168.1.0/24 is directly connected, Serial0/0/1
S    192.168.2.0/24 is directly connected, Serial0/0/1
```

Route configurées de R3:

```
interface FastEthernet0/0
 mac-address 0003.e472.7a36
 ip address 192.168.2.1 255.255.255.0
 duplex auto
 speed auto
!
interface FastEthernet0/1
 mac-address 0006.2a91.d285
 no ip address
 duplex auto
 speed auto
 shutdown
!
interface Serial0/0/0
 no ip address
 clock rate 2000000
!
interface Serial0/0/1
 ip address 192.168.1.1 255.255.255.0
!
interface Vlan1
 no ip address
 shutdown
!
ip classless
ip route 172.16.3.0 255.255.255.0 192.168.1.2
ip route 172.16.2.0 255.255.255.0 192.168.1.2
ip route 172.16.1.0 255.255.255.0 192.168.1.2
!
```

Table de routage de R3:

```
172.16.0.0/24 is subnetted, 3 subnets
S    172.16.1.0 [1/0] via 192.168.1.2
S    172.16.2.0 [1/0] via 192.168.1.2
S    172.16.3.0 [1/0] via 192.168.1.2
C    192.168.1.0/24 is directly connected, Serial0/0/1
C    192.168.2.0/24 is directly connected, FastEthernet0/0
```

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ping du pc 1 vers pc 2

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 172.16.1.0

Pinging 172.16.1.0 with 32 bytes of data:

Reply from 172.16.2.2: bytes=32 time=1ms TTL=254
Reply from 172.16.2.2: bytes=32 time=5ms TTL=254
Reply from 172.16.2.2: bytes=32 time=5ms TTL=254
Reply from 172.16.2.2: bytes=32 time=5ms TTL=254

Ping statistics for 172.16.1.0:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 5ms, Average = 4ms
```

ping du pc 1 vers pc 3

```
C:\>ping 192.168.2.0

Pinging 192.168.2.0 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time=12ms TTL=253
Reply from 192.168.1.1: bytes=32 time=8ms TTL=253
Reply from 192.168.1.1: bytes=32 time=7ms TTL=253
Reply from 192.168.1.1: bytes=32 time=8ms TTL=253

Ping statistics for 192.168.2.0:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 7ms, Maximum = 12ms, Average = 8ms
```

ping du pc 2 vers pc 1

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 172.16.3.0

Pinging 172.16.3.0 with 32 bytes of data:

Reply from 172.16.2.1: bytes=32 time=7ms TTL=254
Reply from 172.16.2.1: bytes=32 time=6ms TTL=254
Reply from 172.16.2.1: bytes=32 time=5ms TTL=254
Reply from 172.16.2.1: bytes=32 time=7ms TTL=254

Ping statistics for 172.16.3.0:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 5ms, Maximum = 7ms, Average = 6ms
```

ping du pc 2 vers pc 3

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```
C:\>ping 192.168.2.0

Pinging 192.168.2.0 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time=5ms TTL=254
Reply from 192.168.1.1: bytes=32 time=5ms TTL=254
Reply from 192.168.1.1: bytes=32 time=6ms TTL=254
Reply from 192.168.1.1: bytes=32 time=6ms TTL=254

Ping statistics for 192.168.2.0:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 5ms, Maximum = 6ms, Average = 5ms
```

ping du pc 3 vers pc 1

```
C:\>ping 172.16.3.0

Pinging 172.16.3.0 with 32 bytes of data:

Reply from 172.16.2.1: bytes=32 time=10ms TTL=253
Reply from 172.16.2.1: bytes=32 time=10ms TTL=253
Reply from 172.16.2.1: bytes=32 time=8ms TTL=253
Reply from 172.16.2.1: bytes=32 time=8ms TTL=253

Ping statistics for 172.16.3.0:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 8ms, Maximum = 10ms, Average = 9ms
```

ping du pc 3 vers pc 2

```
C:\>ping 172.16.1.0

Pinging 172.16.1.0 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time=7ms TTL=254
Reply from 192.168.1.2: bytes=32 time=5ms TTL=254
Reply from 192.168.1.2: bytes=32 time=2ms TTL=254
Reply from 192.168.1.2: bytes=32 time=5ms TTL=254

Ping statistics for 172.16.1.0:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 7ms, Average = 4ms
```

nouvelle configuration pour R3

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```
interface FastEthernet0/0
  mac-address 0003.e472.7a36
  ip address 192.168.2.1 255.255.255.0
  duplex auto
  speed auto
!
interface FastEthernet0/1
  mac-address 0006.2a91.d285
  no ip address
  duplex auto
  speed auto
  shutdown
!
interface Serial0/0/0
  no ip address
  clock rate 2000000
!
interface Serial0/0/1
  ip address 192.168.1.1 255.255.255.0
!
interface Vlan1
  no ip address
  shutdown
!
ip classless
ip route 172.16.0.0 255.255.255.0 192.168.1.2
!
ip flow-export version 9
!
```

table de routage modifiée pour R3

```

|      172.16.0.0/24 is subnetted, 1 subnets
| S      172.16.0.0 [1/0] via 192.168.1.2
| C      192.168.1.0/24 is directly connected, Serial0/0/1
| C      192.168.2.0/24 is directly connected, FastEthernet0/0
```

ping du pc3 vers pc1