



TP Routage Dynamique RIPv1,RIPV2 et RIPng

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Partit1 :tache 4

Q-5/6:

```
*LINEPROID-5-UPDOWN: Line protocol on interface Serialz/U, changed stat1-activation de protocole
                                                                      dynamique
R3>
R3>
R3>
                                                            2-activation de protocole
R3>enable
R3#config t
                                                              RIP avec la commande:
Enter configuration commands, one per line. End with CNTL/Z.
R3(config) #route rip
R3(config-router) #network 192.168.5.0
                                                                        router rip
R3(config-router) #network 192.168.4.8
R3(config-router) #passive-interface f0/0
                                                            3-configuration des route
R3 (config-router) #exit
R3(config)#
R3(config)#exit
                                                            des réseau direcetement
R3#
%SYS-5-CONFIG I: Configured from console by console
                                                             connecte, la methode se
R3#
R3#copy running-config startup-config
                                                                    fait par classe
Destination filename [startup-config]?
Building configuration . . .
[OK]
```

Partie 1:

tache 5

Q-7

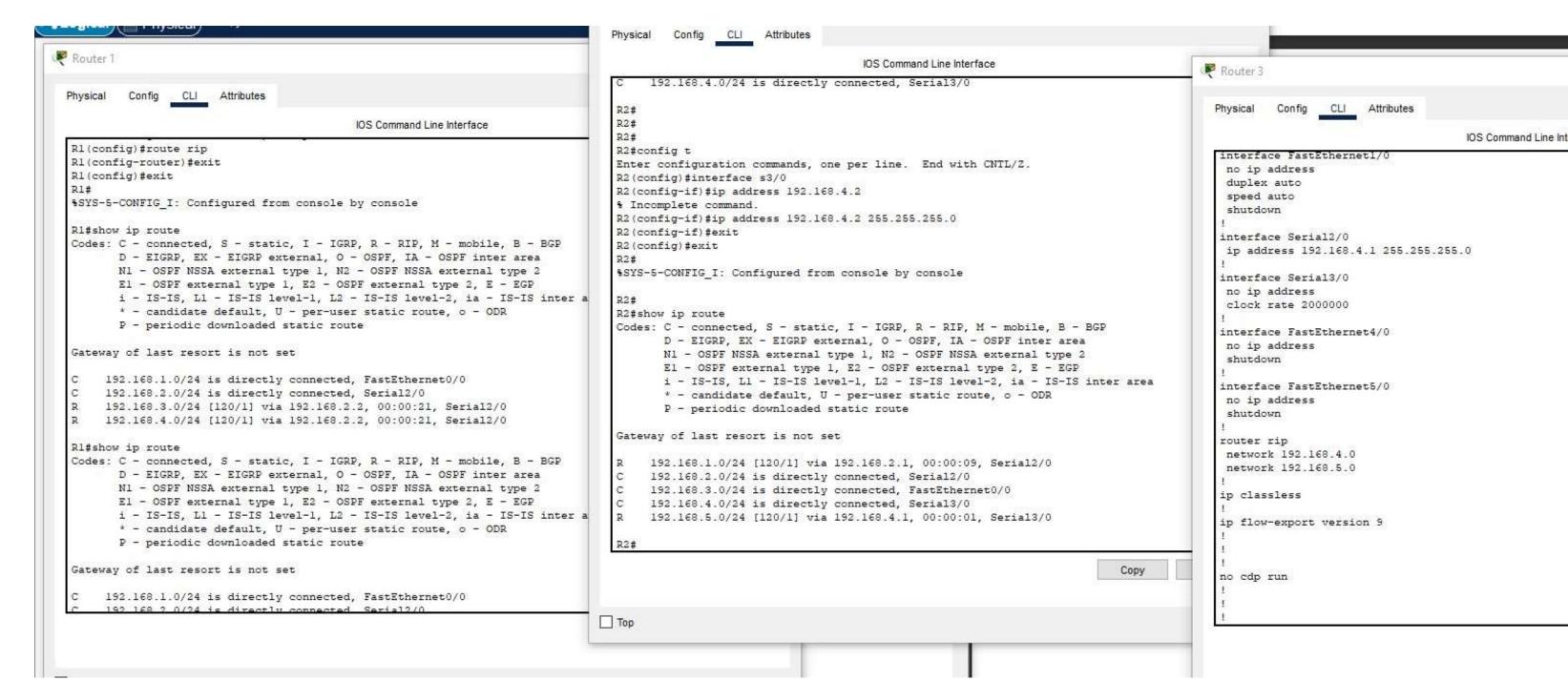


table de routage de R1 et R2 et R3 contient les reseaux

Q-8/9:

```
% Invalid input detected at '^' marker.
Rl#show ip protocols
Routing Protocol is "rip"
Sending updates every 30 seconds, next due in 28 seconds
Invalid after 180 seconds, hold down 180, flushed after 240
Outgoing update filter list for all interfaces is not set
Incoming update filter list for all interfaces is not set
Redistributing: rip
Default version control: send version 1, receive any version
                       Send Recv Triggered RIP Key-chain
  FastEthernet0/0
 Serial2/0
                        12 1
Automatic network summarization is in effect
Maximum path: 4
Routing for Networks:
           192.168.1.0
           192.168.2.0
           192.168.3.0
Passive Interface(s):
Routing Information Sources:
           Gateway
                                         Last Update
           192.168.2.2
                                          00:00:17
Distance: (default is 120)
Rl#debug ip rip
RIP protocol debugging is on
Rl#RIP: received vl update from 192.168.2.2 on Serial2/0
     192.168.3.0 in 1 hops
     192.168.4.0 in 1 hops
     192.168.5.0 in 2 hops
RIP: sending vl update to 255.255.255.255 via FastEthernet0/0 (192.168.1.1)
RIP: build update entries
      network 192.168.2.0 metric
```

la commande debug ip rip afficher les mise a jour de protocole rip chaque 30 seconde

la commande show ip protocols afficher les informations sur le protocole active et les routes reseaux sur cette router

scenario B Q-:18

```
4 FastEthernet/IEEE 802.3 interface(s)
2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)

Press RETURN to get started!

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed sta
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to

R1>
R1>
R1>
R1>enable
R1*config t
Enter configuration commands, one per line. End with CNTL/Z.
R1(config) #route rip
R1(config-router) #network 172.30.0.0
```

configuration de protocols rip sur R1 et configuration les deux routes avec address 172.30.0.0

Q-:19

on block la mise a jour sur l'interface Fa0/0

on a applique les etapes comme la question q18/19

Partie 1 scenario B:

Q - :20/21

Partie 1 scenario B: tache 3

```
Router 1
                                       IOS Command Line Interface
 2 Low-speed serial(sync/async) network interface(s)
  32K bytes of non-volatile configuration memory.
  63488K bytes of ATA CompactFlash (Read/Write)
  Press RETURN to get started!
  %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
  %LINK-5-CHANGED: Interface Serial2/0, changed state to up
  %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
  1>enable
  Rl#show ip rouse
   Codes. C - connected, S - static, I - IGRP, 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
       172.30.0.0/24 is subnetted, 3 subnets
         172.30.1.0 is directly connected, FastEthernet0/0
         172.30.2.0 is directly connected, Serial2/0
         172.30.3.0 [120/1] via 172.30.2.2, 00:00:05, Serial2/0
      192.168.4.0/24 [120/1] via 172.30.2.2, 00:00:05, Serial2/0
      192.168.5.0/24 [120/2] via 172.30.2.2, 00:00:05, Serial2/0
  R1#
                                                                             Copy
```

tache 3

Q-:23

```
FastEthernet4/0
                                                    unassigned
                       FastEthernet5/0
                                                    unassigned
R1>enable
Rl#show ip interface brief
Interface
                       IP-Address
                                       OK? Method Status
                                                                        Protocol
FastEthernet0/0
                       172.30.1.1
                                       YES manual up
FastEthernet1/0
                       unassigned
                                       YES unset administratively down down
Serial2/0
                       172.30.2.1
                                       YES manual up
Serial3/0
                       unassigned
                                       YES unset administratively down down
FastEthernet4/0
                       unassigned
                                       YES unset administratively down down
FastEthernet5/0
                                       YES unset administratively down down
                       unassigned
Rl#show ip protocols
Routing Protocol is "rip"
Sending updates every 30 seconds, next due in 25 seconds
Invalid after 180 seconds, hold down 180, flushed after 240
Outgoing update filter list for all interfaces is not set
Incoming update filter list for all interfaces is not set
Redistributing: rip
Default version control: send version 1, receive any version
 Interface
                        Send Recv Triggered RIP Key-chain
 Serial2/0
Automatic network summarization is in effect
Maximum path: 4
Routing for Networks:
           172.30.0.0
Passive Interface(s):
           FastEthernet0/0
Routing Information Sources:
           Gateway
                           Distance
                                         Last Update
           172.30.2.2
                                120
                                         00:00:04
Distance: (default is 120)
R1#
```

Rl#show ip interface brief

IP-Address

172.30.1.1

unassigned

172.30.2.1

unassigned

R1>enable

Interface

Serial2/0

Serial3/0

FastEthernet0/0

FastEthernet1/0

```
OK? Method Status Protocol
YES manual up up
YES unset administratively down down
YES manual up up
YES unset administratively down down

Protocol
up
down
down
down
down
down
```

tache 3

Q-:24

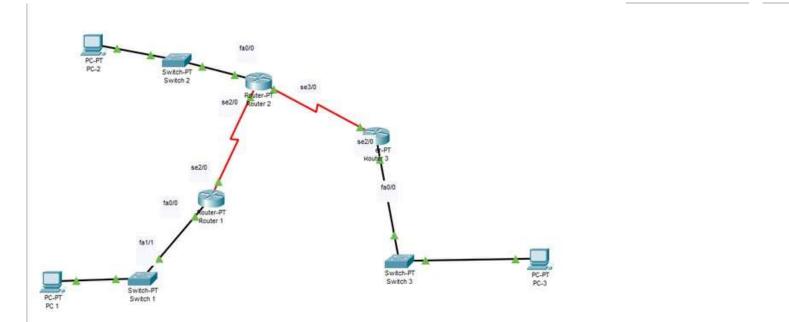
```
Rl#show ip protocols
Routing Protocol is "rip"
Sending updates every 30 seconds, next due in 25 seconds
Invalid after 180 seconds, hold down 180, flushed after 240
Outgoing update filter list for all interfaces is not set
Incoming update filter list for all interfaces is not set
Redistributing: rip
Default version control: send version 1, receive any version
  Interface
                        Send Recv Triggered RIP Key-chain
  Serial2/0
                        12 1
Automatic network summarization is in effect
Maximum path: 4
Routing for Networks:
Passive Interface(s):
            FastEthernet0/1
Routing information sources:
           Gateway
                            Distance
                                          Last Update
           172.30.2.2
                                          00:00:04
                                 120
Distance: (default is 120)
Rl#debug ip rip
RIP protocol debugging is on
R1#RIP: received v1 update from 172.30.2.2 on Serial2/0
      172.30.3.0 in 1 hops
     192.168.4.0 in 1 hops
      192.168.5.0 in 2 hops
RIP: sending vl update to 255.255.255.255 via Serial2/0 (172.30.2.1)
RIP: build update entries
      network 172.30.1.0 metric 1
```

Copy

```
B: tache 3
```

Q-:25

Q-:26



la connectivite reussit sur tout les topologie



tache 3

Q-:27

```
R3(config-if)#exit
R3(config)#
R3(config)#interface fa0/0
R3(config-if)#ip address 172.30.4.0 255.255.255.0
Bad mask /24 for address 172.30.4.0
R3(config-if)#ip address 172.30.4.0 255.255.255.0
Bad mask /24 for address 172.30.4.0
R3(config-if)#ip address 172.30.4.1 255.255.255.0
R3(config-if)#ip address 172.30.4.1 255.255.255.0
```

O DHCP	Static
Pv4 Address	172.30.4.10
Subnet Mask	255.255.255.0
Default Gateway	172.30.4.1
DNS Server	0.0.0.0
Pv6 Configuration	
Automatic	Static
Pv6 Address	1
Link Local Address	FE80::260:70FF:FEA7:A15E
Default Gateway	
DNS Server	
802.1X	

tache 3

```
% Invalid input detected at '^' marker.

R3(config) #route rip
R3(config-router) #no network 192.168.5.0
```

```
Q-:30
```

```
R3(config) #route rip
R3(config-router) #no network 192.168.5.0
R3(config-router) #network 172.30.4.0
R3(config-router) #
```

tache 3

Q-:31

Q-:32

```
Pinging 172.30.4.10 with 32 bytes of data:

Reply from 172.30.1.1: Destination host unreachable.

Ping statistics for 172.30.4.10:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

tache 1

```
R2#config t
Enter configuration commands, one per line. End with CNTL/Z.
R2(config)#route rip
R2(config-router)#no network 192.168.4.0
R2(config-router)#exir
```

```
Q-:36
```

```
R3(config) #no router rip
R3(config) #
R3(config) #exit
```

tache 2

Q-:37

```
Enter configuration commands, one per line. End with CNTL/Z. R3(config) #ip route 172.30.0.0 255.255.0.0 se2/0 R3(config) #
```

Copy

tache 3

Q-:38

```
R2(config)#ip route 0.0.0.0 0.0.0.0 se3/0 R2(config)#
```

```
R2(config-router) #default-information originate
R2(config-router) #
R2(config-router) #
```

tache 4 Q-:40

```
R1>show ip route
Codes: C - connected, S - static, I - IGRP, 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 172.30.2.2 to network 0.0.0.0

172.30.0.0/24 is subnetted, 3 subnets
C 172.30.1.0 is directly connected, FastEthernet0/0
C 172.30.2.0 is directly connected, Serial2/0
R 172.30.3.0 [120/1] via 172.30.2.2, 00:00:01, Serial2/0
R* 0.0.0.0/0 [120/1] via 172.30.2.2, 00:00:01, Serial2/0
R1>
```

Copy

P:

tache 4 Q-:41

```
R1*debug ip rip
RIP protocol debugging is on
R1*RIP: sending v1 update to 255.255.255.255 via Serial2/0 (172.30.2.1)
RIP: build update entries
    network 172.30.1.0 metric 1
RIP: received v1 update from 172.30.2.2 on Serial2/0
    0.0.0.0 in 1 hops
    172.30.3.0 in 1 hops
```

Q-:42

172.30.3.0 in 1 hops

All possible debugging has been turned off

```
R3#show ip route

Codes: C - connected, S - static, I - IGRP, 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

172.30.0.0/16 is variably subnetted, 2 subnets, 2 masks

S 172.30.0.0/16 is directly connected, Serial2/0

C 172.30.4.0/24 is directly connected, FastEthernet0/0

192.168.4.0/30 is subnetted, 1 subnets

C 192.168.4.8 is directly connected, Serial2/0
```

2:

tache 1 et 2 et 3

la connectivite est regle dans chaque station

tache 4

```
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #router rip
Router(config-router) #
Router(config-router) #version 2
Router(config-router) #passive-interface fa0/0
Router(config-router) #network 17.30.10.0
Router(config-router) #network 10.1.1.0
Router(config-router) #
```

tache 4 Q-:5

```
Q-:6
```

```
R3>ena
R3#config t
Enter configuration commands, one per line. End with CNTL/Z.
R3(config)#router rip
R3(config-router)#version 2
R3(config-router)#network 172.30.10.0
R3(config-router)#network 10.2.2.1
R3(config-router)#passive-interface fa0/0
R3(config-router)#passive-interface fa0/0
R3(config-router)#exit
R3(config)#
```

```
R2>
R2>ena
R2>ena
R2#config t
Enter configuration commands, one per line. End with CNTL/Z.
R2(config)#router rip
R2(config-router)#network 10.1.1.0
```

tache 5

```
C:\>ping 172.30.30.3

Pinging 172.30.30.3 with 32 bytes of data:

Reply from 172.30.10.1: Destination host unreachable.
Ping statistics for 172.30.30.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>
```

tous les ping sont échoue

tache 5 Q-:9

```
R2#show ip protocols
Router>
                                  Routing Protocol is "rip"
Router>ena
Router#show ip protocols
                                  Sending updates every 30 seconds, next due in 2 seconds
Routing Protocol is "rip"
                                  Invalid after 180 seconds, hold down 180, flushed after 240
Sending updates every 30 seconds, ne
                                  Outgoing update filter list for all interfaces is not set
Invalid after 180 seconds, hold down
                                  Incoming update filter list for all interfaces is not set
Outgoing update filter list for all
                                  Redistributing: rip
Incoming update filter list for all
Redistributing: rip
                                  Default version control: send version 1, receive any version
Default version control: send version
                                                              Send Recv Triggered RIP Key-chain
                                     Interface
 Interface
                      Send Recv
                                                              12 1
                                     Serial3/0
 Serial2/0
Automatic network summarization is i: Serial2/0
                                                              12 1
Maximum path: 4
                                  Automatic network summarization is in effect
Routing for Networks:
                                  Maximum path: 4
          10.0.0.0
                                  Routing for Networks:
          17.0.0.0
                                               10 0 0 0
P: | R3≥ena
   R3#show ip protocols
R Routing Protocol is "rip"
   Sending updates every 30 seconds, next due in 20 seconds
  Invalid after 180 seconds, hold down 180, flushed after 240
  Outgoing update filter list for all interfaces is not set
   Incoming update filter list for all interfaces is not set
   Redistributing: rip
   Default version control: send version 2, receive 2
     Interface
                         Send Recv Triggered RIP Key-chain
     Serial2/0
   Automatic network summarization is in effect
   Maximum path: 4
   Routing for Networks:
```

10.0.0.0 172.30.0.0

Routing Information Sources:

FastEthernet0/0

Passive Interface(s):

tache 5

```
R2#debug ip rip
RIP protocol debugging is on
R2#RIP: sending vl update to 255.255.255.255 via Serial3/0 (10.1.1.2)
RIP: build update entries
      network 10.2.2.0 metric 1
RIP: sending v1 update to 255.255.255.255 via Serial2/0 (10.2.2.2)
RIP: build update entries
      network 10.1.1.0 metric 1
RIP: sending v1 update to 255.255.255.255 via Serial3/0 (10.1.1.2)
RIP: build update entries
      network 10.2.2.0 metric 1
RIP: sending vl update to 255.255.255.255 via Serial2/0 (10.2.2.2)
RIP: build update entries
      network 10.1.1.0 metric 1
RIP: sending v1 update to 255.255.255.255 via Serial3/0 (10.1.1.2)
RIP: build update entries
      network 10.2.2.0 metric 1
RIP: sending v1 update to 255.255.255.255 via Serial2/0 (10.2.2.2)
RIP: build update entries
      network 10.1.1.0 metric 1
RIP: sending v1 update to 255.255.255.255 via Serial3/0 (10.1.1.2)
RIP: build update entries
      network 10.2.2.0 metric 1
RIP: sending v1 update to 255 255 255 255 via Serial2/0 (10 2 2 2)
```

tache 6

```
% Invalid input detected at '^' marker.
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #router rip
Router(config-router) #no auto-summary
Router(config-router)#clear ip route
% Invalid input detected at '^' marker.
Router(config-router)#
                                                                                        Paste
```

```
Router#show ip route
Codes: C - connected, S - static, I - IGRP, 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
     10.0.0.0/30 is subnetted, 1 subnets
        10.1.1.0 is directly connected, Serial2/0
     172.30.0.0/24 is subnetted, 1 subnets
        172.30.10.0 is directly connected, FastEthernet0/0
Router#
```

Router#clear ip route *

Router#

Partie 2 tache 6

```
Q-:14
```

```
R3>
R3>ena
R3#show ip route
Codes: C - connected, S - static, I - IGRP, 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
    10.0.0.0/30 is subnetted, 1 subnets
      10.2.2.0 is directly connected, Serial2/0
    172.30.0.0/24 is subnetted, 1 subnets
        172.30.30.0 is directly connected, FastEthernet0/0
R3#
```

les masques de sous reseau sont presente sur table de routage

Partie 3 tache 1 et 2

tache 3

```
Q-:3
```

```
Router(config) #ipv6 unicast-routing
Router(config) #interface fa0/0
Router(config-if) #ipv6 rip router testl
```

Q-:4

```
Router(config) #interface fa0/0
Router(config-if) #ipv6 rip test1 enable
Router(config-if) #exit
Router(config) #interface eth1/0
Router(config-if) #ipv6 rip test1 enable
Router(config-if) #exit
Router(config-if) #exit
Router(config) #
```

Q -: 5

```
Router>
Router=config t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config) #ipv6 unicast-routing

Router(config) #interface eth1/0

Router(config-if) #ipv6 rip test2 enable

Router(config-if) #exit

Router(config) #
```

tache 3

```
Router(config)#ipv6 unicast-routing
  Router(config)#interface fa0/0
  Router(config-if)#ipv6 rip test3 enable
  Router(config-if)#
  Router(config-if)#exit
  Router(config) #interface
  % Incomplete command.
  Router(config)#interface eth1/0
  Router(config-if) #ipv6 rip test3 enable
  Router(config-if) #exit
  Router(config)#
                                                                            Paste
                                                                  Copy
Тор
                     Router#show ipv6 protocols
                      IPv6 Routing Protocol is "connected"
                      IPv6 Routing Protocol is "ND"
                     IPv6 Routing Protocol is "rip testl"
                        Interfaces:
                           FastEthernet0/0
                          Ethernet1/0
                        Redistribution:
                           None
                     Router#
```

Partie 3 tache 3

Q-:8

router 1

```
Router#show ipv6 route
IPv6 Routing Table - 7 entries
Codes: C - Connected, L - Local, S - Static, R - RIP, B - BGP
       U - Per-user Static route, M - MIPv6
       II - ISIS L1, I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary
       ND - ND Default, NDp - ND Prefix, DCE - Destination, NDr - Redirect
       O - OSPF intra, OI - OSPF inter, OE1 - OSPF ext 1, OE2 - OSPF ext 2
       ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2
       D - EIGRP, EX - EIGRP external
  2001:DB8:ACAD:A::/64 [0/0]
     via FastEthernet0/0, directly connected
L 2001:DB8:ACAD:A::1/128 [0/0]
    via FastEthernet0/0, receive
R 2001:DB8:ACAD:C::/64 [120/3]
    via FE80::210:11FF:FE1D:2607, Ethernet1/0
C 2001:DB8:ACAD:12::/64 [0/0]
    via Ethernet1/0, directly connected
L 2001:DB8:ACAD:12::1/128 [0/0]
    via Ethernet1/0, receive
R 2001:DB8:ACAD:23::/64 [120/2]
    via FE80::210:11FF:FE1D:2607, Ethernet1/0
L FF00::/8 [0/0]
    via NullO, receive
Router#
```

Copy

Partie 3 tache 3 O-:8

router 2

```
None
Router#show ipv6 route
IPv6 Routing Table - 9 entries
Codes: C - Connected, L - Local, S - Static, R - RIP, B - BGP
      U - Per-user Static route, M - MIPv6
      II - ISIS L1, I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary
      ND - ND Default, NDp - ND Prefix, DCE - Destination, NDr - Redirect
      O - OSPF intra, OI - OSPF inter, OE1 - OSPF ext 1, OE2 - OSPF ext 2
       ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2
       D - EIGRP, EX - EIGRP external
R 2001:DB8:ACAD:A::/64 [120/2]
    via FE80::201:63FF:FE07:2601, Ethernet1/0
C 2001:DB8:ACAD:B::/64 [0/0]
    via FastEthernet0/0, directly connected
L 2001:DB8:ACAD:B::2/128 [0/0]
    via FastEthernet0/0, receive
R 2001:DB8:ACAD:C::/64 [120/2]
    via FE80::201:64FF:FE31:E701, Ethernet1/1
C 2001:DB8:ACAD:12::/64 [0/0]
    via Ethernet1/0, directly connected
L 2001:DB8:ACAD:12::2/128 [0/0]
    via Ethernet1/0, receive
C 2001:DB8:ACAD:23::/64 [0/0]
    via Ethernetl/1, directly connected
 --More--
```

Copy

Partie 3 tache 3

Q-:8 router 3

```
Router>show ipv6 route
IPv6 Routing Table - 7 entries
Codes: C - Connected, L - Local, S - Static, R - RIP, B - BGP
       U - Per-user Static route, M - MIPv6
       II - ISIS L1, I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary
       ND - ND Default, NDp - ND Prefix, DCE - Destination, NDr - Redirect
       O - OSPF intra, OI - OSPF inter, OE1 - OSPF ext 1, OE2 - OSPF ext 2
       ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2
       D - EIGRP, EX - EIGRP external
  2001:DB8:ACAD:A::/64 [120/3]
     via FE80::201:96FF:FE80:843E, Ethernet1/0
C 2001:DB8:ACAD:C::/64 [0/0]
    via FastEthernet0/0, directly connected
L 2001:DB8:ACAD:C::3/128 [0/0]
     via FastEthernet0/0, receive
R 2001:DB8:ACAD:12::/64 [120/2]
    via FE80::201:96FF:FE80:843E, Ethernet1/0
C 2001:DB8:ACAD:23::/64 [0/0]
     via Ethernet1/0, directly connected
  2001:DB8:ACAD:23::3/128 [0/0]
     via Ethernet1/0, receive
L FF00::/8 [0/0]
     via Null0, receive
Router>
```

Copy

Partie 3 tache 3

Q=9 pc-a vers pc-b

```
C:\>ping 2001:DB8:ACAD:B::B

Pinging 2001:DB8:ACAD:B::B with 32 bytes of data:

Request timed out.

Ping statistics for 2001:DB8:ACAD:B::B:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

echoue parceque on a pas configure network

```
pc-a vers pc-c
```

```
C:\>ping 2001:DB8:ACAD:C::C

Pinging 2001:DB8:ACAD:C::C with 32 bytes of data:

Reply from 2001:DB8:ACAD:C::C: bytes=32 time=22ms TTL=125
Reply from 2001:DB8:ACAD:C::C: bytes=32 time=10ms TTL=125
Reply from 2001:DB8:ACAD:C::C: bytes=32 time=5ms TTL=125
Reply from 2001:DB8:ACAD:C::C: bytes=32 time=3ms TTL=125
Ping statistics for 2001:DB8:ACAD:C::C:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 3ms, Maximum = 22ms, Average = 10ms
```

tache 3

pc-c vers pc-

de pc-b

pc-c vers pc-a

```
C:\>ping 2001:DB8:ACAD:B::B
                          Pinging 2001:DB8:ACAD:B::B with 32 bytes of data:
                          Reply from 2001:DB8:ACAD:C::3: Destination host unreachable.
                          Ping statistics for 2001:DB8:ACAD:B::B:
                              Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
echoue parceque on <del>a pas configure netw</del>
```

```
Pinging 2001:DB8:ACAD:A::A with 32 bytes of data:
Reply from 2001:DB8:ACAD:A::A: bytes=32 time=2ms TTL=125
Ping statistics for 2001:DB8:ACAD:A::A:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 2ms, Average = 2ms
```

tache 4

```
Router(config-if)#ipv6 route ::0/64 fa0/0
Router(config)#
```

```
Q-:11
```

```
R2(config) #interface Serial0/2/0
R2(config-if) #ipv6 rip Test2 default-informationoriginate

^
% Invalid input detected at '^' marker.

R2(config-if) #ipv6 rip Test2 default-information originate
R2(config-if) #ex
R2(config) #interface Serial0/3/0
R2(config-if) #ipv6 rip Test2 default-information originate
```

Partie 3 tache 5 Q-:12

```
R2#sh ipv6 route
IPv6 Routing Table - 10 entries
Codes: C - Connected, L - Local, S - Static, R - RIP, B - BGP
      U - Per-user Static route, M - MIPv6
      II - ISIS L1, I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary
      O - OSPF intra, OI - OSPF inter, OE1 - OSPF ext 1, OE2 - OSPF ext 2
      ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2
      D - EIGRP, EX - EIGRP external
s ::/64 [1/0]
    via ::, FastEthernet0/0
R 2001:DB8:ACAD:A::/64 [120/2]
    via FE80::1, Serial0/2/0
C 2001:DB8:ACAD:B::/64 [0/0]
    via ::, FastEthernet0/0
L 2001:DB8:ACAD:B::2/128 [0/0]
    via ::, FastEthernet0/0
R 2001:DB8:ACAD:C::/64 [120/2]
    via FE80::3, Serial0/3/0
C 2001:DB8:ACAD:12::/64 [0/0]
    via ::, Serial0/2/0
L 2001:DB8:ACAD:12::2/128 [0/0]
    via ::, Serial0/2/0
C 2001:DB8:ACAD:23::/64 [0/0]
    via ::, Serial0/3/0
L 2001:DB8:ACAD:23::2/128 [0/0]
    via ::, Serial0/3/0
L FF00::/8 [0/0]
```

via ::, Null0

```
R1#sh ipv6 route
IPv6 Routing Table - 8 entries
Codes: C - Connected, L - Local, S - Static, R - RIP, B - BGP
      U - Per-user Static route, M - MIPv6
      I1 - ISIS L1, I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary
       O - OSPF intra, OI - OSPF inter, OE1 - OSPF ext 1, OE2 - OSPF ext 2
       ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2
       D - EIGRP, EX - EIGRP external
R ::/0 [120/1]
     via FE80::2, Serial0/2/0
  2001:DB8:ACAD:A::/64 [0/0]
     via ::, FastEthernet0/0
L 2001:DB8:ACAD:A::1/128 [0/0]
     via ::, FastEthernet0/0
R 2001:DB8:ACAD:C::/64 [120/3]
     via FE80::2, Serial0/2/0
    2001:DB8:ACAD:12::/64 [0/0]
     via ::, Serial0/2/0
    2001:DB8:ACAD:12::1/128 [0/0]
     via ::, Serial0/2/0
R 2001:DB8:ACAD:23::/64 [120/2]
     via FE80::2, Serial0/2/0
L FF00::/8 [0/0]
     via ::, Null0
```

Partie 3 tache 5

Q - :13

```
R3#sh ipv6 route
IPv6 Routing Table - 8 entries
Codes: C - Connected, L - Local, S - Static, R - RIP, B - BGP
      U - Per-user Static route, M - MIPv6
      I1 - ISIS L1, I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary
      O - OSPF intra, OI - OSPF inter, OE1 - OSPF ext 1, OE2 - OSPF ext 2
      ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2
      D - EIGRP, EX - EIGRP external
R ::/0 [120/1]
    via FE80::2, Serial0/2/0
R 2001:DB8:ACAD:A::/64 [120/3]
    via FE80::2, Serial0/2/0
C 2001:DB8:ACAD:C::/64 [0/0]
    via ::, FastEthernet0/0
L 2001:DB8:ACAD:C::3/128 [0/0]
     via ::, FastEthernet0/0
R 2001:DB8:ACAD:12::/64 [120/2]
     via FE80::2, Serial0/2/0
C 2001:DB8:ACAD:23::/64 [0/0]
     via ::, Serial0/2/0
L 2001:DB8:ACAD:23::3/128 [0/0]
    via ::, Serial0/2/0
L FF00::/8 [0/0]
     via ::, Null0
```

Partie 3 tache 5 Q-:14pc a

pc c

```
C:\>ping 2001:DB8:ACAD:B::B
Pinging 2001:DB8:ACAD:B::B with 32 bytes of data:
Reply from 2001:DB8:ACAD:B::B: bytes=32 time=1ms TTL=126
Ping statistics for 2001:DB8:ACAD:B::B:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
 C:\>ping 2001:DB8:ACAD:B::B
Pinging 2001:DB8:ACAD:B::B with 32 bytes of data:
Reply from 2001:DB8:ACAD:B::B: bytes=32 time=1ms TTL=126
Ping statistics for 2001:DB8:ACAD:B::B:
     Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 1ms, Average = 1ms
```