

TP 8

1. Visualisation des tables de routage

Interface	IP-Address	OK? Method Status	Protocol	IPv4 Address	
FastEthernet0/0	194.2.16.33	YES manual up	up		194.2.16.17
FastEthernet0/1	194.2.16.30	YES manual up	up		255.255.255.240
Vlan1	unassigned	YES unset administratively down down			194.2.16.30
R11#					0.0.0.0

```
R11>en
R11#sh 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

```
S    192.168.2.0/24 [1/0] via 194.2.16.35
    194.2.16.0/28 is subnetted, 10 subnets
C    194.2.16.16 is directly connected, FastEthernet0/1
C    194.2.16.32 is directly connected, FastEthernet0/0
D    194.2.16.48 [90/30720] via 194.2.16.34, 00:06:47, FastEthernet0/0
D    194.2.16.96 [90/2172416] via 194.2.16.35, 00:06:47, FastEthernet0/0
D    194.2.16.112 [90/30720] via 194.2.16.35, 00:06:47, FastEthernet0/0
D    194.2.16.128 [90/2172416] via 194.2.16.35, 00:06:47, FastEthernet0/0
D    194.2.16.144 [90/2174976] via 194.2.16.35, 00:06:47, FastEthernet0/0
D    194.2.16.192 [90/35840] via 194.2.16.35, 00:06:46, FastEthernet0/0
D    194.2.16.208 [90/33280] via 194.2.16.35, 00:06:47, FastEthernet0/0
D    194.2.16.224 [90/35840] via 194.2.16.35, 00:06:46, FastEthernet0/0
```

```
R1>en
R1#sh 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

```
    194.2.16.0/28 is subnetted, 10 subnets
D    194.2.16.16 [90/2174976] via 194.2.16.97, 00:09:54, Serial0/0/0
D    194.2.16.32 [90/2172416] via 194.2.16.97, 00:10:21, Serial0/0/0
D    194.2.16.48 [90/2174976] via 194.2.16.97, 00:09:54, Serial0/0/0
C    194.2.16.96 is directly connected, Serial0/0/0
D    194.2.16.112 [90/2172416] via 194.2.16.97, 00:10:21, Serial0/0/0
        [90/2172416] via 194.2.16.146, 00:10:19, Serial0/0/1
D    194.2.16.128 [90/2681856] via 194.2.16.97, 00:10:21, Serial0/0/0
        [90/2681856] via 194.2.16.146, 00:10:18, Serial0/0/1
C    194.2.16.144 is directly connected, Serial0/0/1
D    194.2.16.192 [90/2174976] via 194.2.16.146, 00:09:53, Serial0/0/1
D    194.2.16.208 [90/2172416] via 194.2.16.146, 00:10:19, Serial0/0/1
D    194.2.16.224 [90/2174976] via 194.2.16.146, 00:09:53, Serial0/0/1
```

TP 8

pc11

```
PC11
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 194.2.16.49
Pinging 194.2.16.49 with 32 bytes of data:
Request timed out.
Reply from 194.2.16.49: bytes=32 time=1ms TTL=124
Reply from 194.2.16.49: bytes=32 time=1ms TTL=124
Reply from 194.2.16.49: bytes=32 time=1ms TTL=124
Ping statistics for 194.2.16.49:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 194.2.16.193
Pinging 194.2.16.193 with 32 bytes of data:
Request timed out.
Reply from 194.2.16.193: bytes=32 time=1ms TTL=124
Reply from 194.2.16.193: bytes=32 time=1ms TTL=124
Reply from 194.2.16.193: bytes=32 time=1ms TTL=124
Ping statistics for 194.2.16.193:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 194.2.16.225
Pinging 194.2.16.225 with 32 bytes of data:
Request timed out.
Reply from 194.2.16.225: bytes=32 time=1ms TTL=124
Reply from 194.2.16.225: bytes=32 time=1ms TTL=124
Reply from 194.2.16.225: bytes=32 time=1ms TTL=124
Ping statistics for 194.2.16.225:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>
```

pc12

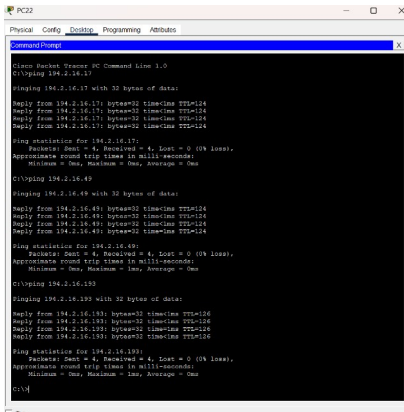
```
PC12
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 194.2.16.17
Pinging 194.2.16.17 with 32 bytes of data:
Reply from 194.2.16.17: bytes=32 time=1ms TTL=124
Reply from 194.2.16.17: bytes=32 time=1ms TTL=124
Reply from 194.2.16.17: bytes=32 time=1ms TTL=124
Reply from 194.2.16.17: bytes=32 time=1ms TTL=124
Ping statistics for 194.2.16.17:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 1ms
C:\>ping 194.2.16.193
Pinging 194.2.16.193 with 32 bytes of data:
Reply from 194.2.16.193: bytes=32 time=1ms TTL=124
Reply from 194.2.16.193: bytes=32 time=1ms TTL=124
Reply from 194.2.16.193: bytes=32 time=1ms TTL=124
Reply from 194.2.16.193: bytes=32 time=1ms TTL=124
Ping statistics for 194.2.16.193:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 1ms
C:\>ping 194.2.16.224
Pinging 194.2.16.224 with 32 bytes of data:
Reply from 194.2.16.210: bytes=32 time=1ms TTL=252
Reply from 194.2.16.210: bytes=32 time=1ms TTL=252
Reply from 194.2.16.210: bytes=32 time=1ms TTL=252
Reply from 194.2.16.210: bytes=32 time=1ms TTL=252
Ping statistics for 194.2.16.224:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>
```

pc21

```
PC21
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 194.2.16.17
Pinging 194.2.16.17 with 32 bytes of data:
Reply from 194.2.16.17: bytes=32 time=1ms TTL=124
Reply from 194.2.16.17: bytes=32 time=1ms TTL=124
Reply from 194.2.16.17: bytes=32 time=1ms TTL=124
Reply from 194.2.16.17: bytes=32 time=1ms TTL=124
Ping statistics for 194.2.16.17:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 194.2.16.49
Pinging 194.2.16.49 with 32 bytes of data:
Reply from 194.2.16.49: bytes=32 time=1ms TTL=124
Reply from 194.2.16.49: bytes=32 time=1ms TTL=124
Reply from 194.2.16.49: bytes=32 time=1ms TTL=124
Reply from 194.2.16.49: bytes=32 time=1ms TTL=124
Ping statistics for 194.2.16.49:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 1ms
C:\>ping 194.2.16.225
Pinging 194.2.16.225 with 32 bytes of data:
Reply from 194.2.16.225: bytes=32 time=1ms TTL=124
Reply from 194.2.16.225: bytes=32 time=1ms TTL=124
Reply from 194.2.16.225: bytes=32 time=1ms TTL=124
Reply from 194.2.16.225: bytes=32 time=1ms TTL=124
Ping statistics for 194.2.16.225:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>
```

TP 8

pc22



```
PC22
Physical Config Debug Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 194.2.16.47
Pinging 194.2.16.47 with 32 bytes of data:
Reply from 194.2.16.47: bytes=32 time=1ms TTL=124
Reply from 194.2.16.47: bytes=32 time=1ms TTL=124
Reply from 194.2.16.47: bytes=32 time=1ms TTL=124
Reply from 194.2.16.47: bytes=32 time=1ms TTL=124
Ping statistics for 194.2.16.47:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milliseconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 194.2.16.49
Pinging 194.2.16.49 with 32 bytes of data:
Reply from 194.2.16.49: bytes=32 time=1ms TTL=124
Reply from 194.2.16.49: bytes=32 time=1ms TTL=124
Reply from 194.2.16.49: bytes=32 time=1ms TTL=124
Reply from 194.2.16.49: bytes=32 time=1ms TTL=124
Ping statistics for 194.2.16.49:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milliseconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 194.2.16.153
Pinging 194.2.16.153 with 32 bytes of data:
Reply from 194.2.16.153: bytes=32 time=1ms TTL=126
Reply from 194.2.16.153: bytes=32 time=1ms TTL=126
Reply from 194.2.16.153: bytes=32 time=1ms TTL=126
Reply from 194.2.16.153: bytes=32 time=1ms TTL=126
Ping statistics for 194.2.16.153:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milliseconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>
```

2. Ajout du routeur R0 et de l'ordinateur PC0

```
The following configuration command script was created:
!
hostname R0
enable secret 5 $1$mRr$QnY/64E5C1F2j8H8iL28G0
enable password mdp2
line vty 0 4
password mdp3
!
interface Vlan1
shutdown
no ip address
!
interface FastEthernet0/0
no shutdown
ip address 192.168.2.1 255.255.255.0
!
interface FastEthernet0/1
shutdown
no ip address
!
interface Serial0/0/0
shutdown
no ip address
!
interface Serial0/0/1
shutdown
no ip address
!
end

[0] Go to the IOS command prompt without saving this config.
[1] Return back to the setup without saving this config.
[2] Save this configuration to nvram and exit.

Enter your selection [2]: 2
Building configuration...
[OK]
Use the enabled mode 'configure' command to modify this configuration.

Press RETURN to get started!
```

```
R0>
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

R0>show arp
Protocol Address Age (min) Hardware Addr Type Interface
Internet 192.168.2.1 - 0060.3E87.6001 ARPA FastEthernet0/0
R0>show arp
Protocol Address Age (min) Hardware Addr Type Interface
Internet 192.168.2.1 - 0060.3E87.6001 ARPA FastEthernet0/0
R0>
```