

TP6 : Routage statique

1. Visualisation de la table de routage.	1
2. Ajout d'une route statique sur R12.	3
3. Ajout d'une route statique sur R11.	4
4. A vous de jouer.....	7
1. Relier PC 21 à PC 22.....	7
2. Relier tous les pc ensembles	8

1. Visualisation de la table de routage.

```

Compiled Mon 15-May-06 14:54 by pt_team
Image text-base: 0x6007D180, data-base: 0x61400000

Port Statistics for unclassified packets is not turned on.
Cisco 1841 (revision 5.0) with 114688K/16384K bytes of memory.
Processor board ID FTX0947Z18E
M860 processor: part number 0, mask 49
2 FastEthernet/IEEE 802.3 interface(s)
191K bytes of NVRAM.
32768K bytes of ATA CompactFlash (Read/Write)
Cisco IOS Software, 1841 Software (C1841-IPBASE-M), Version 12.3(14)T7, RELEASE SOFTWARE
(fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2006 by Cisco Systems, Inc.
Compiled Mon 15-May-06 14:54 by pt_team

Press RETURN to get started!

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

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

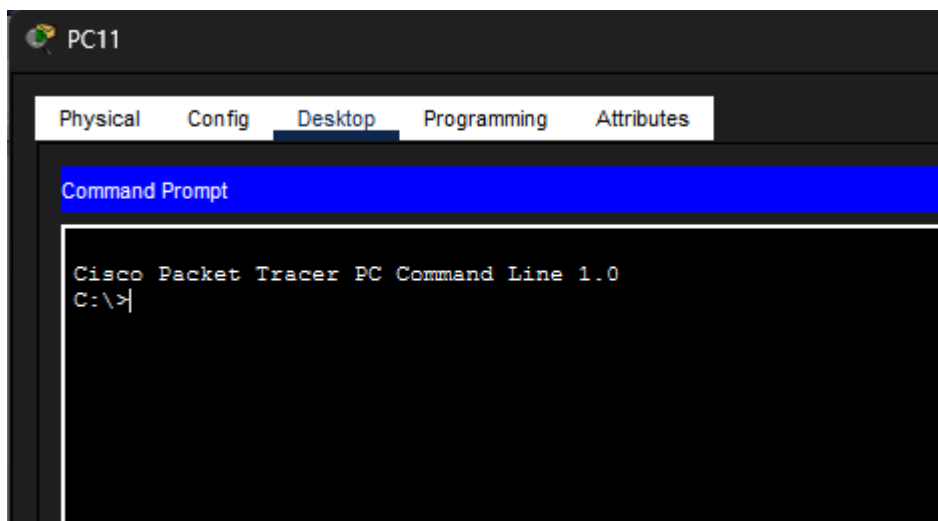
Gateway of last resort is not set

    10.0.0.0/24 is subnetted, 2 subnets
C       10.0.8.0 is directly connected, FastEthernet0/0
C       10.0.11.0 is directly connected, FastEthernet0/1

R11>
  
```

TP6 : Routage statique

Affichage dans l'interface CLI après l'exécution de la commande sh ip route dans R11



Ouverture de

l'onglet invite de commande avec PC11

```
C:\>ping 10.0.11.1

Pinging 10.0.11.1 with 32 bytes of data:

Reply from 10.0.11.1: bytes=32 time<1ms TTL=255
Reply from 10.0.11.1: bytes=32 time=5ms TTL=255
Reply from 10.0.11.1: bytes=32 time<1ms TTL=255
Reply from 10.0.11.1: bytes=32 time<1ms TTL=255

Ping statistics for 10.0.11.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 5ms, Average = 1ms
```

Ping de 10.0.11.1

```
C:\>ping 10.0.8.11

Pinging 10.0.8.11 with 32 bytes of data:

Reply from 10.0.8.11: bytes=32 time<1ms TTL=255
Reply from 10.0.8.11: bytes=32 time<1ms TTL=255
Reply from 10.0.8.11: bytes=32 time<1ms TTL=255
Reply from 10.0.8.11: bytes=32 time<1ms TTL=255

Ping statistics for 10.0.8.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

Ping de 10.0.8.11

```
C:\>ping 10.0.8.12

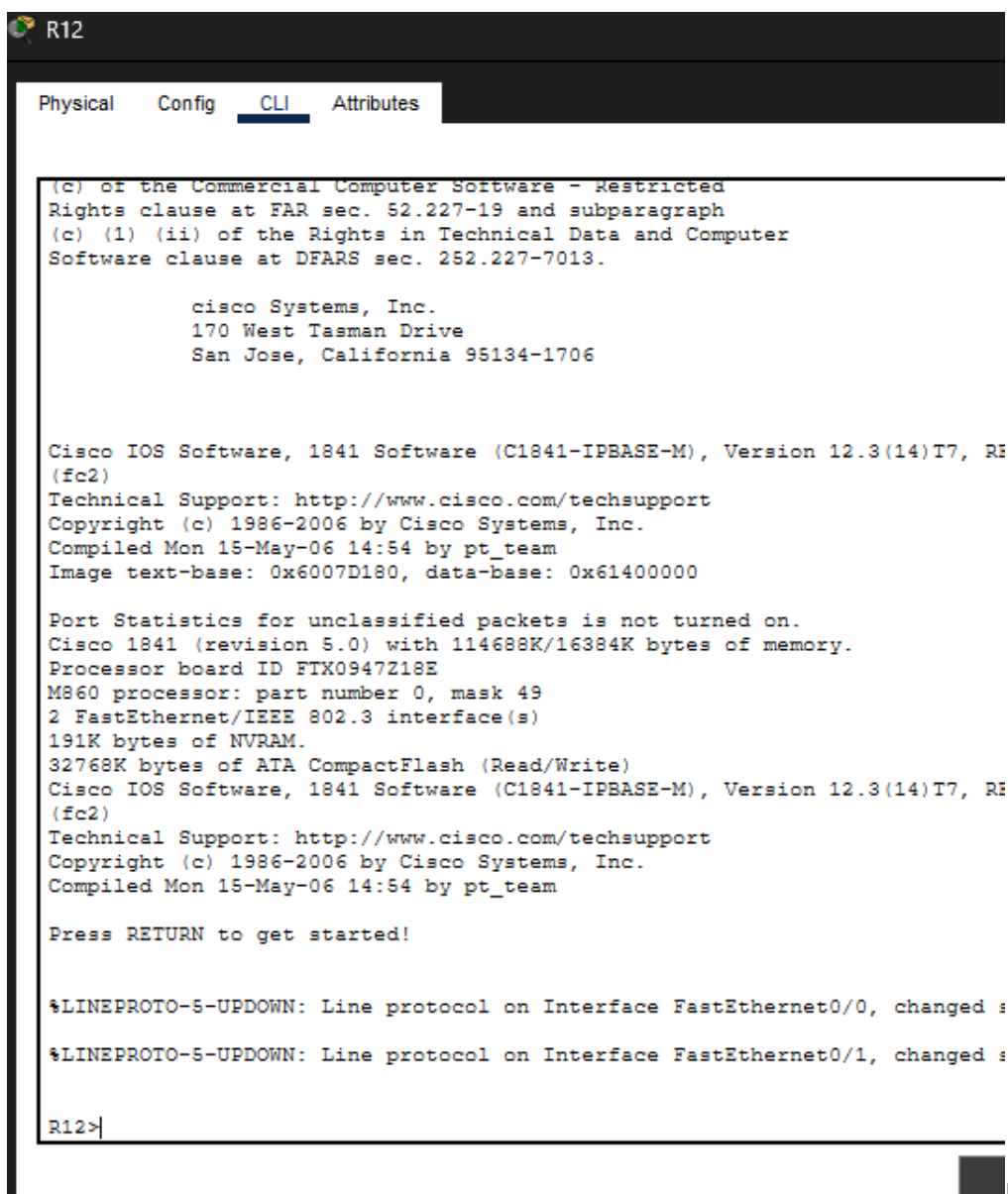
Pinging 10.0.8.12 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 10.0.8.12:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

Ping 10.0.8.12 fonctionne pas car ping de R12 qui n'est pas encore dans la table de routage

2. Ajout d'une route statique sur R12.



```
R12
Physical  Config  CLI  Attributes

(c) of the Commercial Computer Software - Restricted
Rights clause at FAR sec. 52.227-19 and subparagraph
(c) (1) (ii) of the Rights in Technical Data and Computer
Software clause at DFARS sec. 252.227-7013.

    cisco Systems, Inc.
    170 West Tasman Drive
    San Jose, California 95134-1706

Cisco IOS Software, 1841 Software (C1841-IPBASE-M), Version 12.3(14)T7, RE
(fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2006 by Cisco Systems, Inc.
Compiled Mon 15-May-06 14:54 by pt_team
Image text-base: 0x6007D180, data-base: 0x61400000

Port Statistics for unclassified packets is not turned on.
Cisco 1841 (revision 5.0) with 114688K/16384K bytes of memory.
Processor board ID FTX0947218E
M860 processor: part number 0, mask 49
2 FastEthernet/IEEE 802.3 interface(s)
191K bytes of NVRAM.
32768K bytes of ATA CompactFlash (Read/Write)
Cisco IOS Software, 1841 Software (C1841-IPBASE-M), Version 12.3(14)T7, RE
(fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2006 by Cisco Systems, Inc.
Compiled Mon 15-May-06 14:54 by pt_team

Press RETURN to get started!

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed s
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed s

R12>
```

Interface CLI

du routeur R12

TP6 : Routage statique

```
R12>en
R12#
```

Commande en pour passer en mode privilégié

```
R12#conf t
Enter configuration commands, one per line. End with CNTL/Z.
R12(config)#
```

Commande conf t

pour passer en mode configuration du terminale

```
R12(config)#ip route 10.0.11.0 255.255.255.0 10.0.8.11
```

Réseau de destination / msr / adresse du prochain saut

```
router rip
!
ip classless
ip route 10.0.11.0 255.255.255.0 10.0.8.11
!
```

Résultat après avoir effectuer la commande sh run

```
R12#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

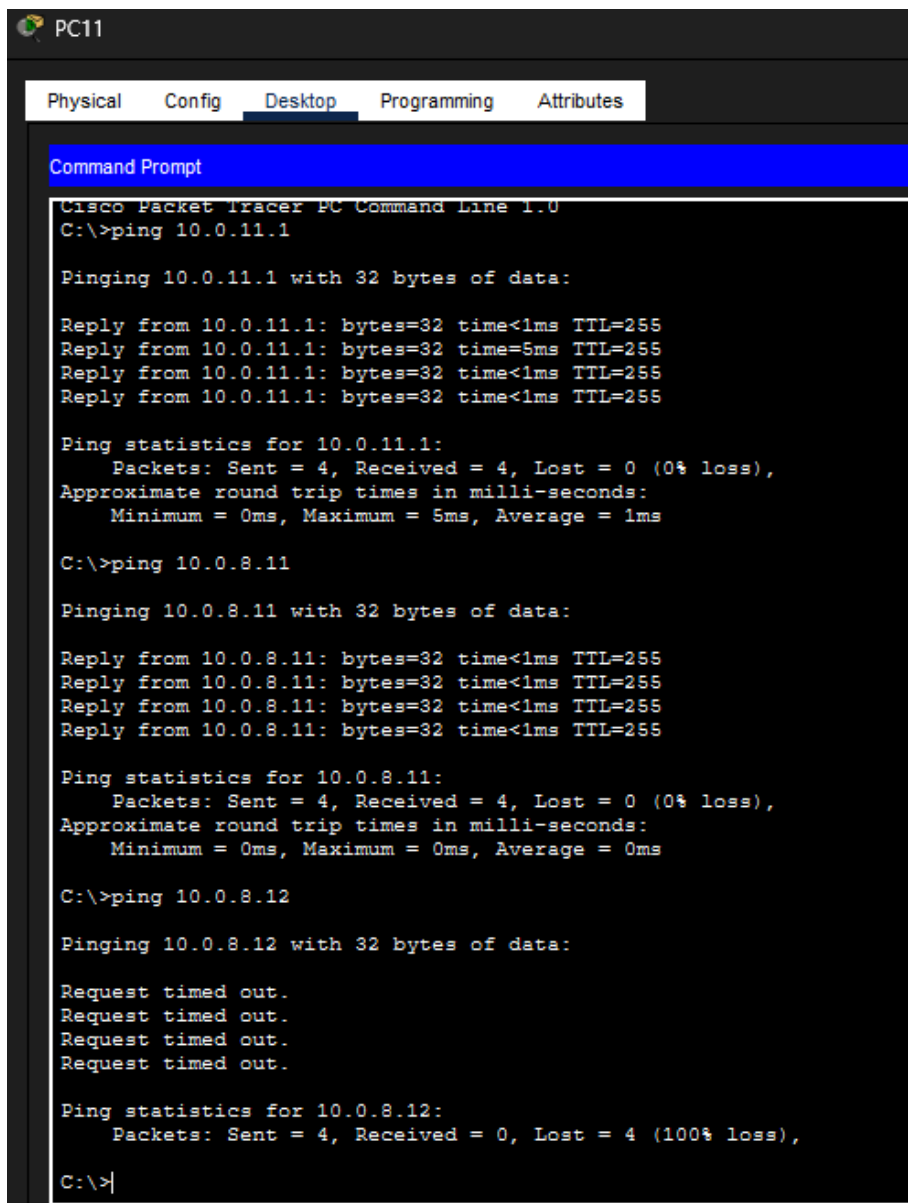
      10.0.0.0/24 is subnetted, 3 subnets
C       10.0.8.0 is directly connected, FastEthernet0/0
S       10.0.11.0 [1/0] via 10.0.8.11
C       10.0.12.0 is directly connected, FastEthernet0/1
```

Résultat après la commande sh ip route

```
R12#copy run start
Destination filename [startup-config]?
Building configuration...
[OK]
R12#
```

Enregistrement de la configuration

3. Ajout d'une route statique sur R11.



The screenshot shows the 'Desktop' tab of a PC named 'PC11'. A 'Command Prompt' window is open, displaying the output of several ping commands. The first command is 'ping 10.0.11.1', which shows successful results with 0% loss. The second command is 'ping 10.0.8.11', also showing successful results with 0% loss. The third command is 'ping 10.0.8.12', which shows a 100% loss. The window title is 'PC11' and the tabs are 'Physical', 'Config', 'Desktop', 'Programming', and 'Attributes'.

```
PC11
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 10.0.11.1

Pinging 10.0.11.1 with 32 bytes of data:

Reply from 10.0.11.1: bytes=32 time<1ms TTL=255
Reply from 10.0.11.1: bytes=32 time=5ms TTL=255
Reply from 10.0.11.1: bytes=32 time<1ms TTL=255
Reply from 10.0.11.1: bytes=32 time<1ms TTL=255

Ping statistics for 10.0.11.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 5ms, Average = 1ms

C:\>ping 10.0.8.11

Pinging 10.0.8.11 with 32 bytes of data:

Reply from 10.0.8.11: bytes=32 time<1ms TTL=255
Reply from 10.0.8.11: bytes=32 time<1ms TTL=255
Reply from 10.0.8.11: bytes=32 time<1ms TTL=255
Reply from 10.0.8.11: bytes=32 time<1ms TTL=255

Ping statistics for 10.0.8.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 10.0.8.12

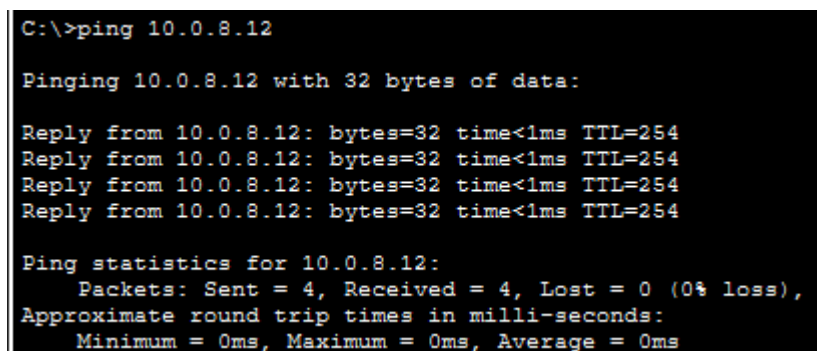
Pinging 10.0.8.12 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 10.0.8.12:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

Espace invite de commande du pc11



This screenshot shows a portion of the Command Prompt window from the previous image, specifically the output of the 'ping 10.0.8.12' command. It shows four successful replies and a ping statistics summary indicating 0% loss.

```
C:\>ping 10.0.8.12

Pinging 10.0.8.12 with 32 bytes of data:

Reply from 10.0.8.12: bytes=32 time<1ms TTL=254
Reply from 10.0.8.12: bytes=32 time<1ms TTL=254
Reply from 10.0.8.12: bytes=32 time<1ms TTL=254
Reply from 10.0.8.12: bytes=32 time<1ms TTL=254

Ping statistics for 10.0.8.12:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

Ping de 10.0.8.12

TP6 : Routage statique

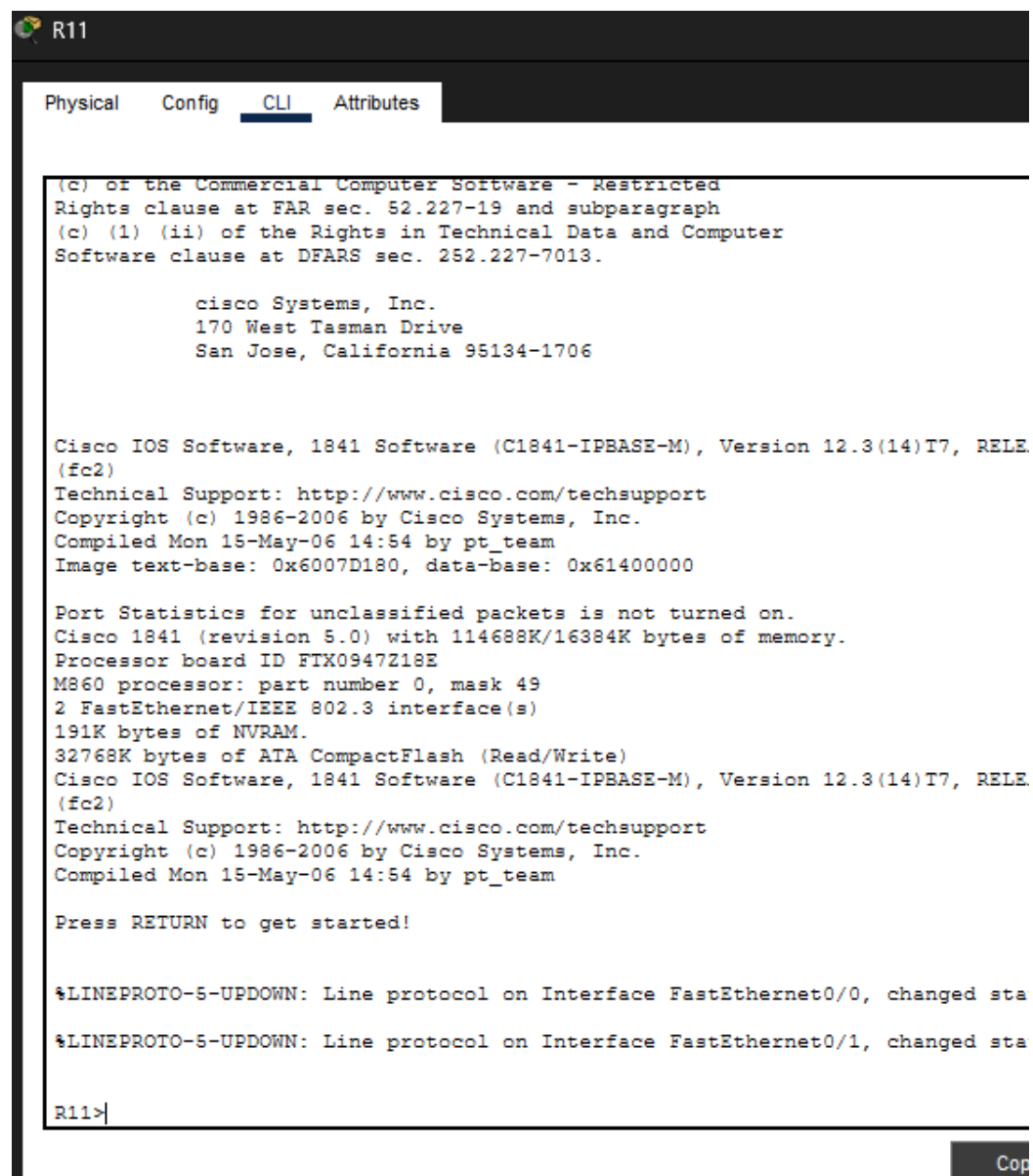
```
C:\>ping 10.0.12.1

Pinging 10.0.12.1 with 32 bytes of data:

Reply from 10.0.11.1: Destination host unreachable.
Reply from 10.0.11.1: Destination host unreachable.
Request timed out.
Reply from 10.0.11.1: Destination host unreachable.

Ping statistics for 10.0.12.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

Ping de 10.0.12.1 (non fonctionnel car la table de routage comporte que les réseaux connecter directement



The screenshot shows the CLI of a Cisco R11 router. The top bar has tabs for Physical, Config, CLI (selected), and Attributes. The main window displays the following text:

```
(c) of the Commercial Computer Software - Restricted
Rights clause at FAR sec. 52.227-19 and subparagraph
(c) (1) (ii) of the Rights in Technical Data and Computer
Software clause at DFARS sec. 252.227-7013.

    cisco Systems, Inc.
    170 West Tasman Drive
    San Jose, California 95134-1706

Cisco IOS Software, 1841 Software (C1841-IPBASE-M), Version 12.3(14)T7, RELE
(fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2006 by Cisco Systems, Inc.
Compiled Mon 15-May-06 14:54 by pt_team
Image text-base: 0x6007D180, data-base: 0x61400000

Port Statistics for unclassified packets is not turned on.
Cisco 1841 (revision 5.0) with 114688K/16384K bytes of memory.
Processor board ID FTX0947218E
M860 processor: part number 0, mask 49
2 FastEthernet/IEEE 802.3 interface(s)
191K bytes of NVRAM.
32768K bytes of ATA CompactFlash (Read/Write)
Cisco IOS Software, 1841 Software (C1841-IPBASE-M), Version 12.3(14)T7, RELE
(fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2006 by Cisco Systems, Inc.
Compiled Mon 15-May-06 14:54 by pt_team

Press RETURN to get started!

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed sta
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed sta

R11>
```

A 'Copy' button is visible in the bottom right corner of the CLI window.

Interface CLI de R11

TP6 : Routage statique

```
R11>en
R11#conf t
Enter configuration commands, one per line. End with CNTL/Z.
R11(config)#ip route 10.0.12.0 255.255.255.0 10.0.8.12
R11(config)#
```

Passage en mode privilégié -> configuration et enregistrement de l'ip 10.0.12.0 à la table de routage

```
R11(config)#exit
R11#
%SYS-5-CONFIG_I: Configured from console by console

R11#sh ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B -
       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
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

      10.0.0.0/24 is subnetted, 3 subnets
C       10.0.8.0 is directly connected, FastEthernet0/0
C       10.0.11.0 is directly connected, FastEthernet0/1
S       10.0.12.0 [1/0] via 10.0.8.12
```

Adresse Ip 10.0.12.0 dans la table de routage

```
C:\>ping 10.0.12.1

Pinging 10.0.12.1 with 32 bytes of data:

Reply from 10.0.12.1: bytes=32 time<1ms TTL=254
Reply from 10.0.12.1: bytes=32 time<1ms TTL=254
Reply from 10.0.12.1: bytes=32 time<1ms TTL=254
Reply from 10.0.12.1: bytes=32 time<1ms TTL=254

Ping statistics for 10.0.12.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

Ping de 10.0.12.1 fonctionnelle

4. A vous de jouer.

1. Relier PC 21 à PC 22

```
R22(config)#ip route 10.0.21.0 255.255.255.0 10.0.16.21
R22(config)#exit
```

Ajout de la route 10.0.21.0 en passant par 10.0.16.21

TP6 : Routage statique

```
C:\>ping 10.0.16.22

Pinging 10.0.16.22 with 32 bytes of data:

Reply from 10.0.16.22: bytes=32 time=1ms TTL=254
Reply from 10.0.16.22: bytes=32 time<1ms TTL=254
Reply from 10.0.16.22: bytes=32 time<1ms TTL=254
Reply from 10.0.16.22: bytes=32 time<1ms TTL=254

Ping statistics for 10.0.16.22:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

Ping du routeur 22 depuis le PC 21 -> fonctionnel

```
R21#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

    10.0.0.0/24 is subnetted, 3 subnets
C       10.0.16.0 is directly connected, FastEthernet0/0
C       10.0.21.0 is directly connected, FastEthernet0/1
S       10.0.22.0 [1/0] via 10.0.16.22
```

```
C:\>ping 10.0.22.0

Pinging 10.0.22.0 with 32 bytes of data:

Reply from 10.0.16.22: bytes=32 time<1ms TTL=254
Reply from 10.0.16.22: bytes=32 time<1ms TTL=254
Reply from 10.0.16.22: bytes=32 time<1ms TTL=254
Reply from 10.0.16.22: bytes=32 time<1ms TTL=254

Ping statistics for 10.0.22.0:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

Ping de PC21 à coté hôte de R22

2. Relier tous les pc ensembles

TP6 : Routage statique

```
R21#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

```
10.0.0.0/24 is subnetted, 7 subnets
S    10.0.1.0 [1/0] via 10.0.16.16
S    10.0.8.0 [1/0] via 10.0.1.8
S    10.0.11.0 [1/0] via 10.0.8.11
S    10.0.12.0 [1/0] via 10.0.8.12
C    10.0.16.0 is directly connected, FastEthernet0/0
C    10.0.21.0 is directly connected, FastEthernet0/1
S    10.0.22.0 [1/0] via 10.0.16.22
```

Table de routage du routeur 21

```
R22#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

```
10.0.0.0/24 is subnetted, 7 subnets
S    10.0.1.0 [1/0] via 10.0.16.16
S    10.0.8.0 [1/0] via 10.0.1.8
S    10.0.11.0 [1/0] via 10.0.8.11
S    10.0.12.0 [1/0] via 10.0.8.12
C    10.0.16.0 is directly connected, FastEthernet0/0
S    10.0.21.0 [1/0] via 10.0.16.21
C    10.0.22.0 is directly connected, FastEthernet0/1
```

Table de routage du routeur 22

```
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

```
10.0.0.0/24 is subnetted, 7 subnets
S    10.0.1.0 [1/0] via 10.0.8.8
C    10.0.8.0 is directly connected, FastEthernet0/0
C    10.0.11.0 is directly connected, FastEthernet0/1
S    10.0.12.0 [1/0] via 10.0.8.12
S    10.0.16.0 [1/0] via 10.0.1.16
S    10.0.21.0 [1/0] via 10.0.16.21
S    10.0.22.0 [1/0] via 10.0.16.22
```

Table de routage du routeur 11

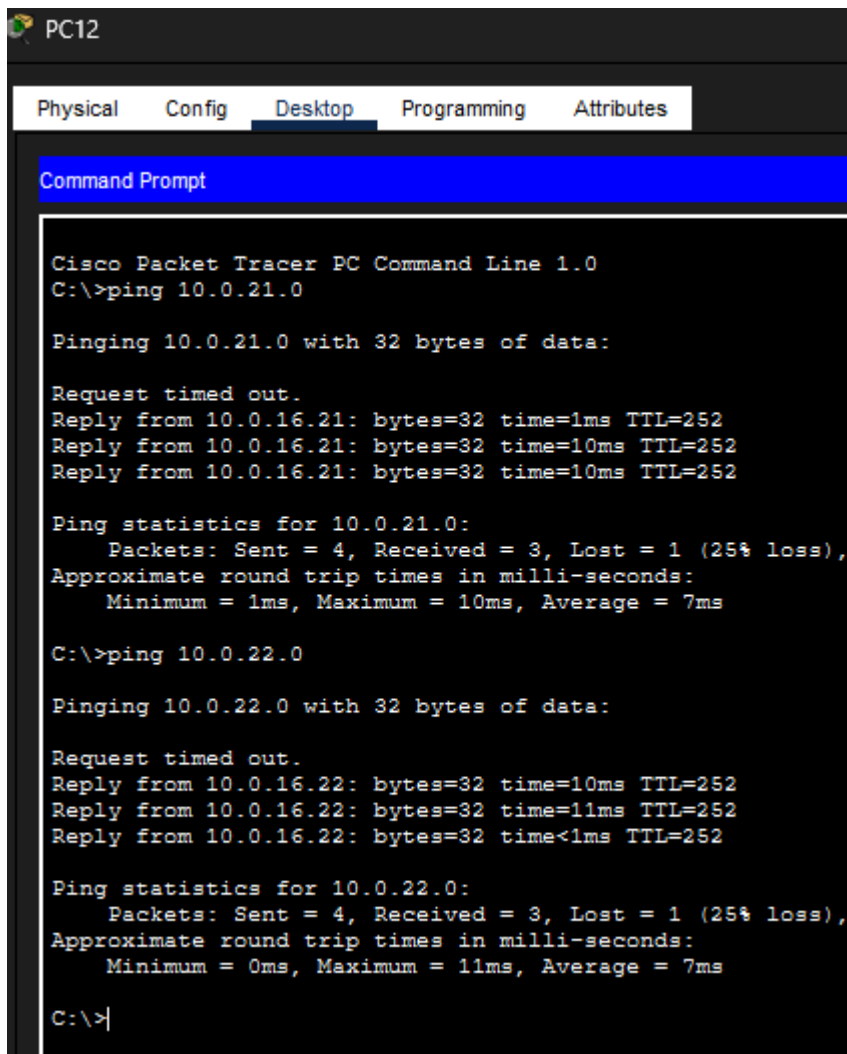
TP6 : Routage statique

```
R12#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

10.0.0.0/24 is subnetted, 7 subnets
S       10.0.1.0 [1/0] via 10.0.8.8
C       10.0.8.0 is directly connected, FastEthernet0/0
S       10.0.11.0 [1/0] via 10.0.8.11
C       10.0.12.0 is directly connected, FastEthernet0/1
S       10.0.16.0 [1/0] via 10.0.1.16
S       10.0.21.0 [1/0] via 10.0.16.21
S       10.0.22.0 [1/0] via 10.0.16.22
```

Table de routage du routeur 12



The screenshot shows the Command Prompt of PC12 in Cisco Packet Tracer. The prompt displays the results of two ping commands. The first command is 'ping 10.0.21.0', which shows a 25% loss (1 out of 4 packets lost) with round trip times ranging from 1ms to 10ms. The second command is 'ping 10.0.22.0', which also shows a 25% loss (1 out of 4 packets lost) with round trip times ranging from 0ms to 11ms. The prompt ends with a cursor at 'C:\>|'.

```
PC12
Physical Config Desktop Programming Attributes
Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 10.0.21.0

Pinging 10.0.21.0 with 32 bytes of data:

Request timed out.
Reply from 10.0.16.21: bytes=32 time=1ms TTL=252
Reply from 10.0.16.21: bytes=32 time=10ms TTL=252
Reply from 10.0.16.21: bytes=32 time=10ms TTL=252

Ping statistics for 10.0.21.0:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 10ms, Average = 7ms

C:\>ping 10.0.22.0

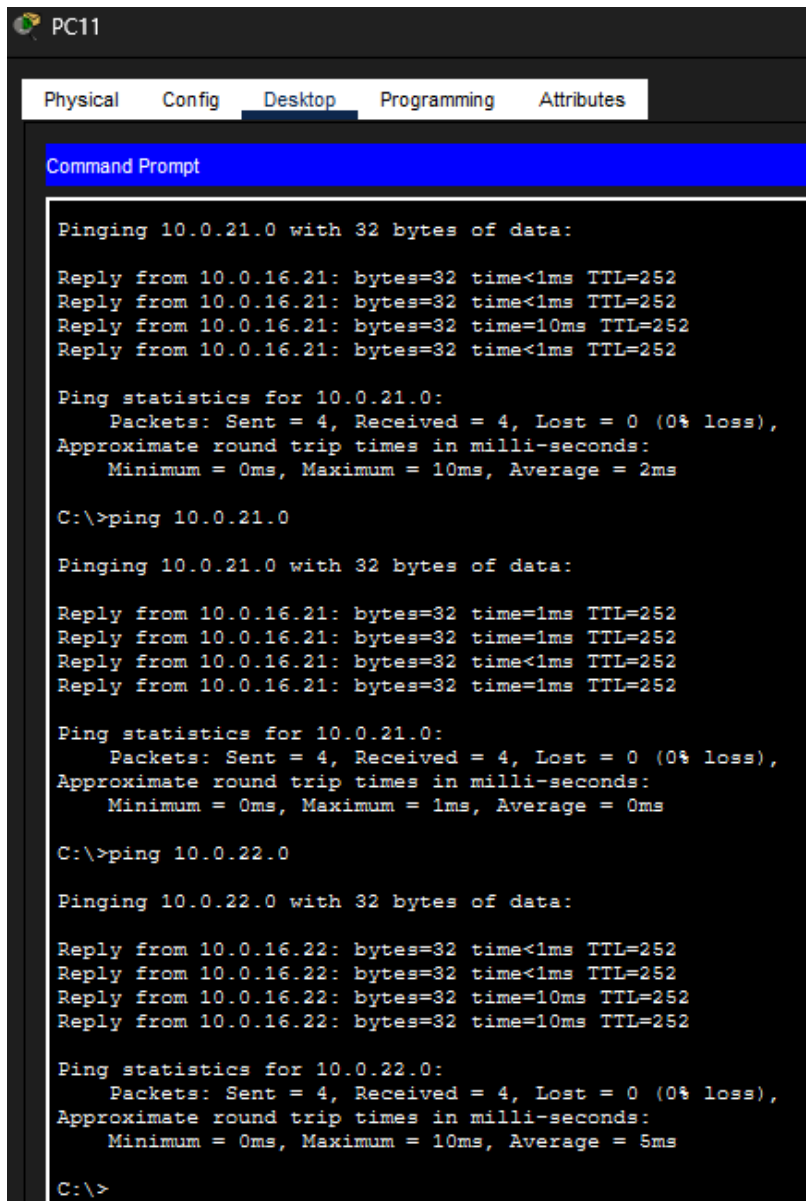
Pinging 10.0.22.0 with 32 bytes of data:

Request timed out.
Reply from 10.0.16.22: bytes=32 time=10ms TTL=252
Reply from 10.0.16.22: bytes=32 time=11ms TTL=252
Reply from 10.0.16.22: bytes=32 time<1ms TTL=252

Ping statistics for 10.0.22.0:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 11ms, Average = 7ms

C:\>|
```

Ping des reseaux 10.0.21.0 et 10.0.22.0 du pc 12

The image shows a screenshot of a PC11 interface with a Command Prompt window open. The window has tabs for Physical, Config, Desktop, Programming, and Attributes, with 'Desktop' selected. The Command Prompt displays the results of two ping commands. The first command is 'ping 10.0.21.0', which shows four successful replies from 10.0.16.21 with varying times (all <1ms except for one at 10ms) and TTL=252. The statistics show 4 packets sent, 4 received, 0% loss, and an average round trip time of 2ms. The second command is 'ping 10.0.22.0', which also shows four successful replies from 10.0.16.22 with varying times (all <1ms except for two at 10ms) and TTL=252. The statistics show 4 packets sent, 4 received, 0% loss, and an average round trip time of 5ms. The prompt is currently at 'C:\>'.

```
PC11
Physical  Config  Desktop  Programming  Attributes

Command Prompt

Pinging 10.0.21.0 with 32 bytes of data:

Reply from 10.0.16.21: bytes=32 time<1ms TTL=252
Reply from 10.0.16.21: bytes=32 time<1ms TTL=252
Reply from 10.0.16.21: bytes=32 time=10ms TTL=252
Reply from 10.0.16.21: bytes=32 time<1ms TTL=252

Ping statistics for 10.0.21.0:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 10ms, Average = 2ms

C:\>ping 10.0.21.0

Pinging 10.0.21.0 with 32 bytes of data:

Reply from 10.0.16.21: bytes=32 time=1ms TTL=252
Reply from 10.0.16.21: bytes=32 time=1ms TTL=252
Reply from 10.0.16.21: bytes=32 time<1ms TTL=252
Reply from 10.0.16.21: bytes=32 time=1ms TTL=252

Ping statistics for 10.0.21.0:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>ping 10.0.22.0

Pinging 10.0.22.0 with 32 bytes of data:

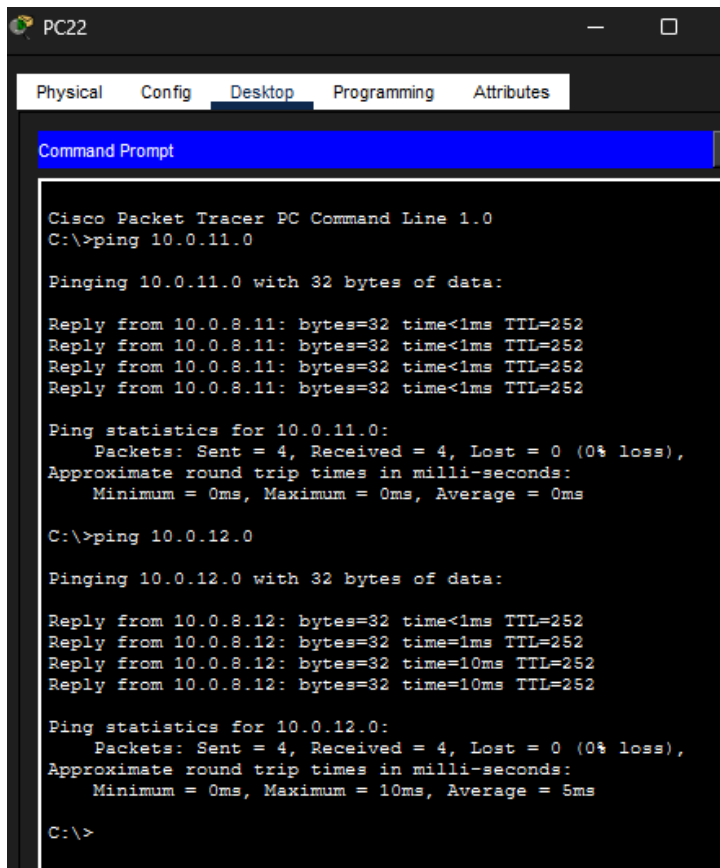
Reply from 10.0.16.22: bytes=32 time<1ms TTL=252
Reply from 10.0.16.22: bytes=32 time<1ms TTL=252
Reply from 10.0.16.22: bytes=32 time=10ms TTL=252
Reply from 10.0.16.22: bytes=32 time=10ms TTL=252

Ping statistics for 10.0.22.0:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 10ms, Average = 5ms

C:\>
```

Ping des réseaux 10.0.21.0 et 10.0.22.0 du pc 11

TP6 : Routage statique



```
PC22
Physical  Config  Desktop  Programming  Attributes

Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 10.0.11.0

Pinging 10.0.11.0 with 32 bytes of data:

Reply from 10.0.8.11: bytes=32 time<1ms TTL=252
Reply from 10.0.8.11: bytes=32 time<1ms TTL=252
Reply from 10.0.8.11: bytes=32 time<1ms TTL=252
Reply from 10.0.8.11: bytes=32 time<1ms TTL=252

Ping statistics for 10.0.11.0:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 10.0.12.0

Pinging 10.0.12.0 with 32 bytes of data:

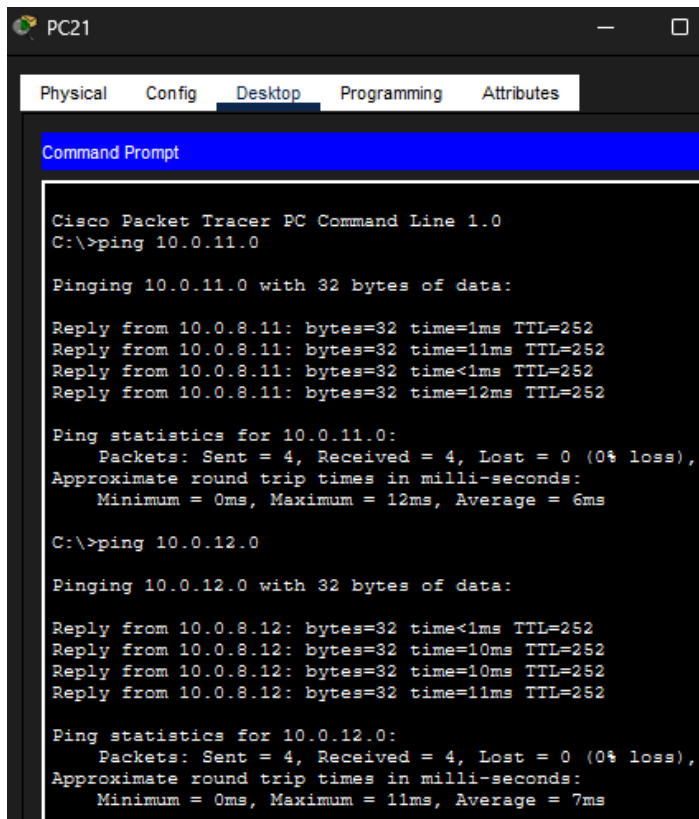
Reply from 10.0.8.12: bytes=32 time<1ms TTL=252
Reply from 10.0.8.12: bytes=32 time=1ms TTL=252
Reply from 10.0.8.12: bytes=32 time=10ms TTL=252
Reply from 10.0.8.12: bytes=32 time=10ms TTL=252

Ping statistics for 10.0.12.0:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 10ms, Average = 5ms

C:\>
```

Ping des réseaux 10.0.11.0 et 10.0.12.0 depuis le pc 22

TP6 : Routage statique



The screenshot shows a Cisco Packet Tracer PC Command Line window for PC21. The window has tabs for Physical, Config, Desktop, Programming, and Attributes. The Desktop tab is active, showing a Command Prompt. The Command Prompt displays the output of two ping commands: 'ping 10.0.11.0' and 'ping 10.0.12.0'. Both commands show successful results with 4 packets sent and received, 0% loss, and various round trip times.

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 10.0.11.0

Pinging 10.0.11.0 with 32 bytes of data:

Reply from 10.0.8.11: bytes=32 time=1ms TTL=252
Reply from 10.0.8.11: bytes=32 time=11ms TTL=252
Reply from 10.0.8.11: bytes=32 time<1ms TTL=252
Reply from 10.0.8.11: bytes=32 time=12ms TTL=252

Ping statistics for 10.0.11.0:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 12ms, Average = 6ms

C:\>ping 10.0.12.0

Pinging 10.0.12.0 with 32 bytes of data:

Reply from 10.0.8.12: bytes=32 time<1ms TTL=252
Reply from 10.0.8.12: bytes=32 time=10ms TTL=252
Reply from 10.0.8.12: bytes=32 time=10ms TTL=252
Reply from 10.0.8.12: bytes=32 time=11ms TTL=252

Ping statistics for 10.0.12.0:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 11ms, Average = 7ms
```

ping des réseaux 10.0.11.0 et

10.0.12.0 depuis le pc 21