FACULTÉ DES SCIENCES ET TECHNOLOGIES (FST)

TROISIÈME ANNÉE

Rapport du travail de Laboratoire Nº 5

Cours : Réseaux I

Étudiante : Christy Gérys LAMBERT

Professeur : Ismaël SAINT AMOUR

Le 28 Novembre 2025

OBJECTIF

1. Configurer un serveur DNS centralisé dans un réseau.

2. Associer plusieurs noms de domaine à différents serveurs (Web, Mail, FTP).

3. Intégrer le DNS avec d'autres services (Web Server).

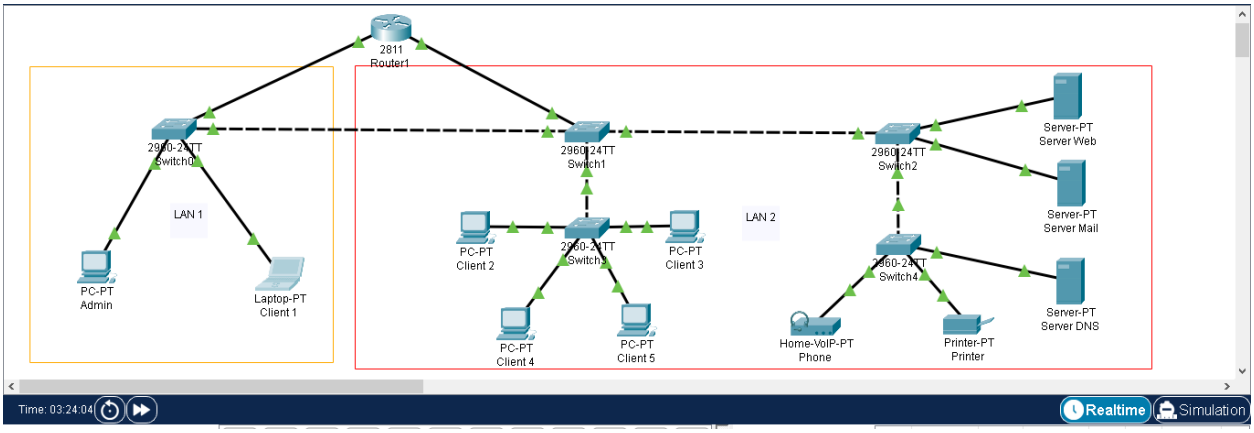
4. Tester la résolution de noms depuis des PC clients et depuis le routeur.

5.Configurer un serveur Web (HTTP et HTTPS) dans Cisco Packet Tracer.

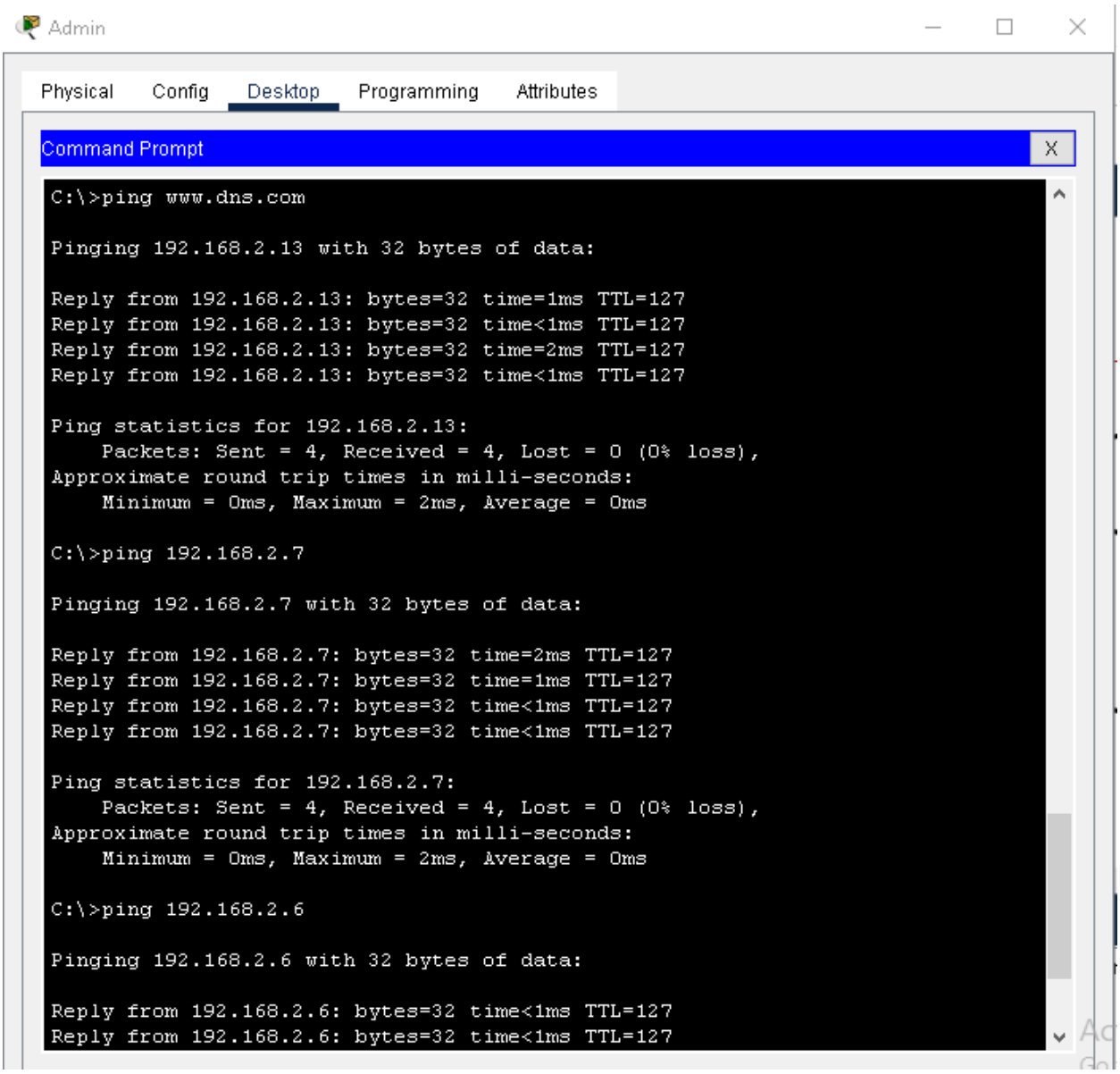
6. Comprendre la différence entre HTTP et HTTPS.

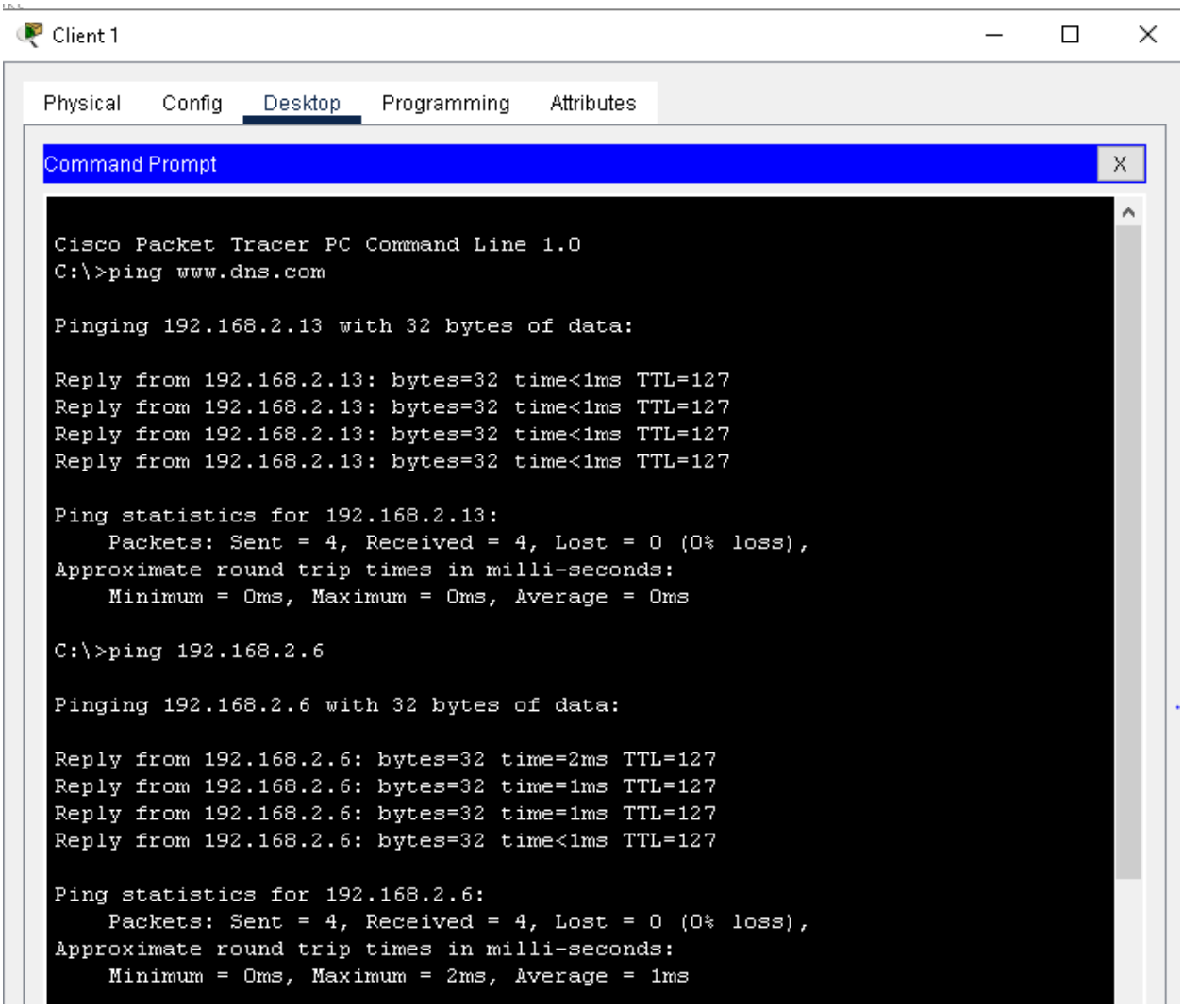
7. Tester l'accès aux pages web depuis des PC clients.

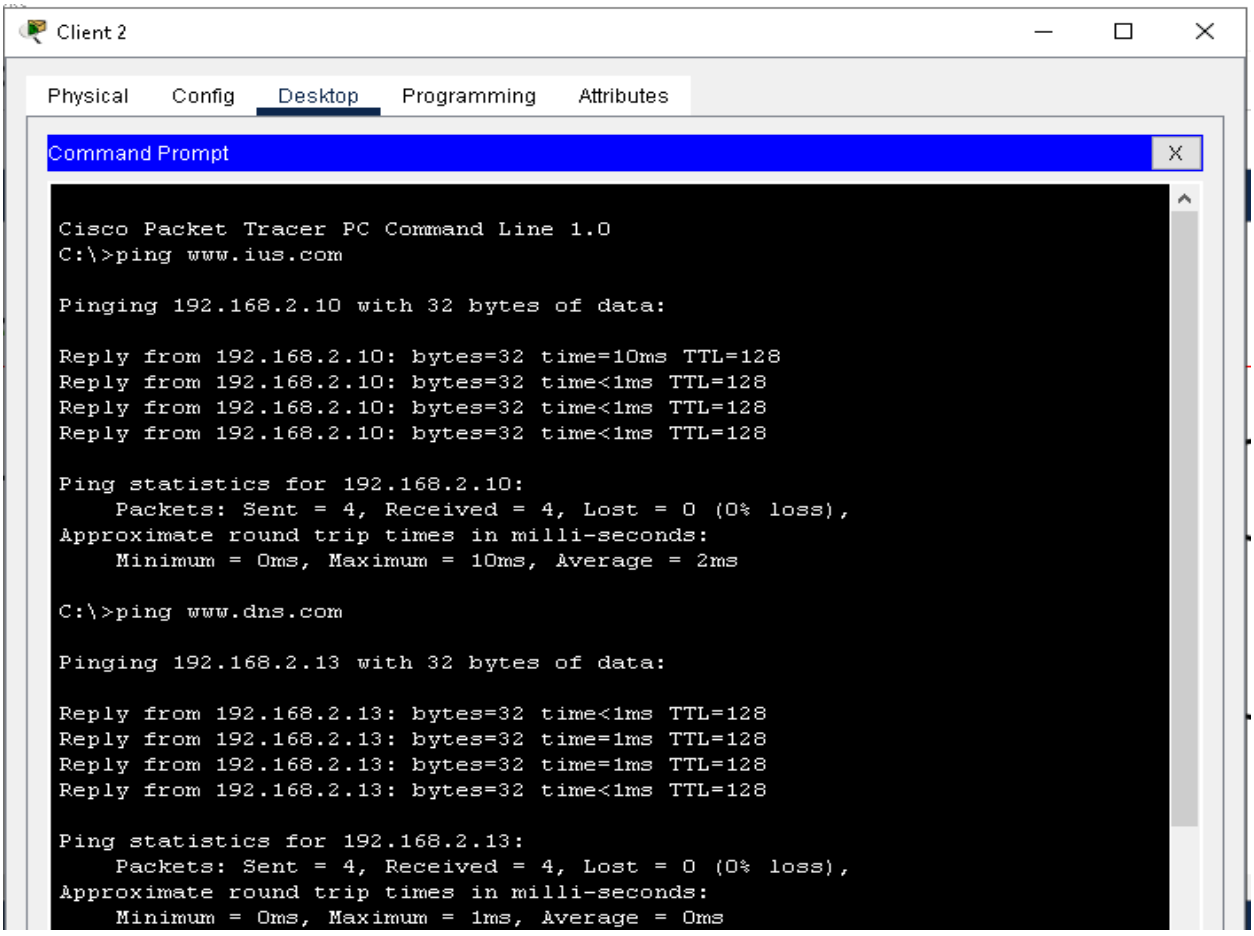
I-Configuration des services DNS, HTTP, HTTPS puis affichage d’une page web, de cette topologie.

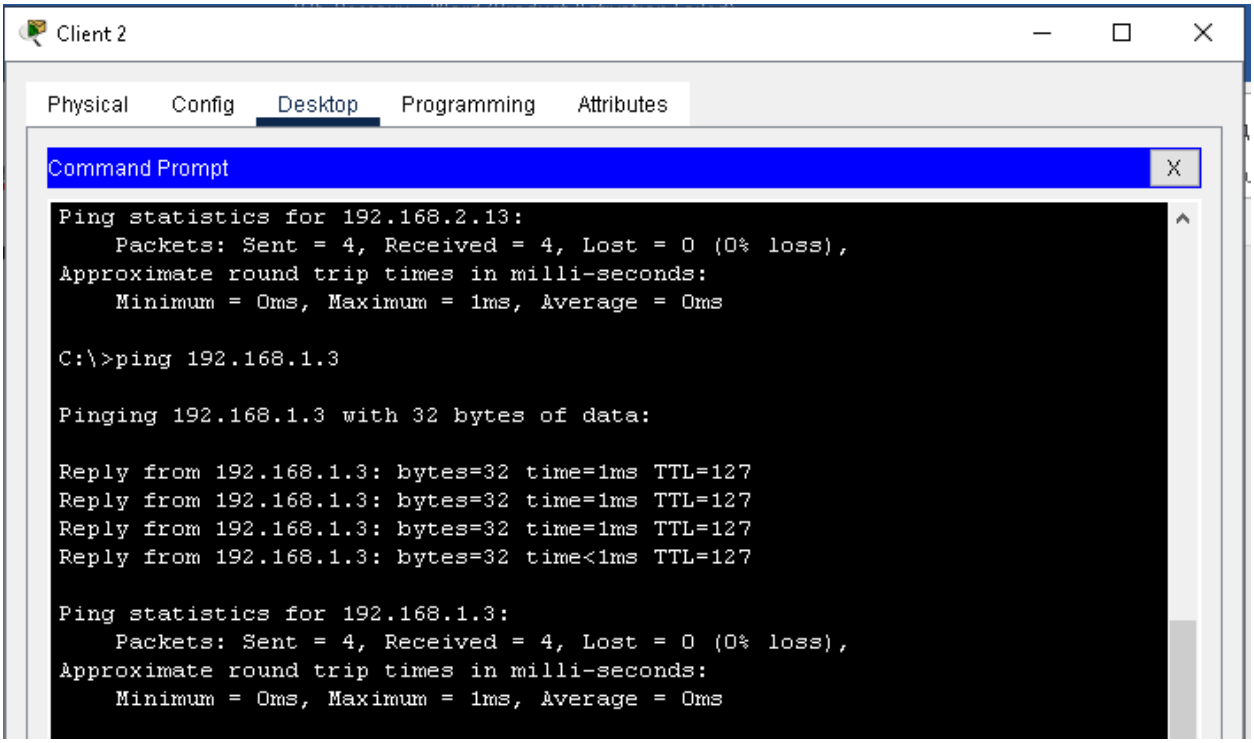


Vérification si la communication est réussie entre le serveur DNS et les différents appareils




Client 1
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
Cisco Packet Tracer PC Command Line 1.0
C:\>ping www.dns.com
Pinging 192.168.2.13 with 32 bytes of data:
Reply from 192.168.2.13: bytes=32 time<1ms TTL=127
Reply from 192.168.2.13: bytes=32 time<1ms TTL=127
Reply from 192.168.2.13: bytes=32 time<1ms TTL=127
Reply from 192.168.2.13: bytes=32 time<1ms TTL=127
Ping statistics for 192.168.2.13:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.2.6
Pinging 192.168.2.6 with 32 bytes of data:
Reply from 192.168.2.6: bytes=32 time=2ms TTL=127
Reply from 192.168.2.6: bytes=32 time=1ms TTL=127
Reply from 192.168.2.6: bytes=32 time=1ms TTL=127
Reply from 192.168.2.6: bytes=32 time<1ms TTL=127
Ping statistics for 192.168.2.6:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 2ms, Average = 1ms


Client 2
Physical
Config
Desktop
Programming
Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping www.ius.com
Pinging 192.168.2.10 with 32 bytes of data:
Reply from 192.168.2.10: bytes=32 time=10ms TTL=128
Reply from 192.168.2.10: bytes=32 time<1ms TTL=128
Reply from 192.168.2.10: bytes=32 time<1ms TTL=128
Reply from 192.168.2.10: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.2.10:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 10ms, Average = 2ms
C:\>ping www.dns.com
Pinging 192.168.2.13 with 32 bytes of data:
Reply from 192.168.2.13: bytes=32 time<1ms TTL=128
Reply from 192.168.2.13: bytes=32 time=1ms TTL=128
Reply from 192.168.2.13: bytes=32 time=1ms TTL=128
Reply from 192.168.2.13: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.2.13:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms


Client 2
Physical
Config
Desktop
Programming
Attributes
Command Prompt
Ping statistics for 192.168.2.13:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>ping 192.168.1.3
Pinging 192.168.1.3 with 32 bytes of data:
Reply from 192.168.1.3: bytes=32 time=1ms TTL=127
Reply from 192.168.1.3: bytes=32 time=1ms TTL=127
Reply from 192.168.1.3: bytes=32 time=1ms TTL=127
Reply from 192.168.1.3: bytes=32 time<1ms TTL=127
Ping statistics for 192.168.1.3:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms

Client 5

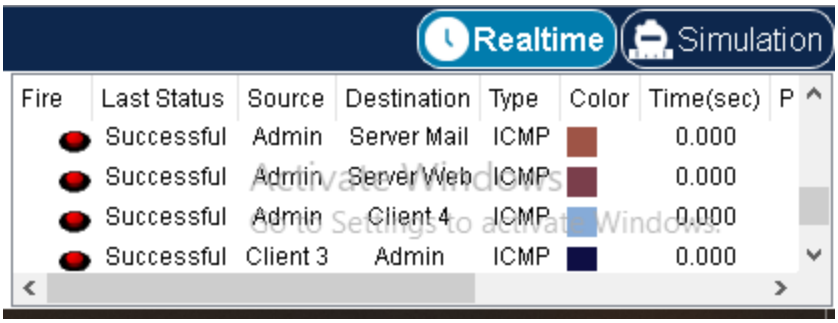
Physical | Config | Desktop | Programming | Attributes

Command Prompt

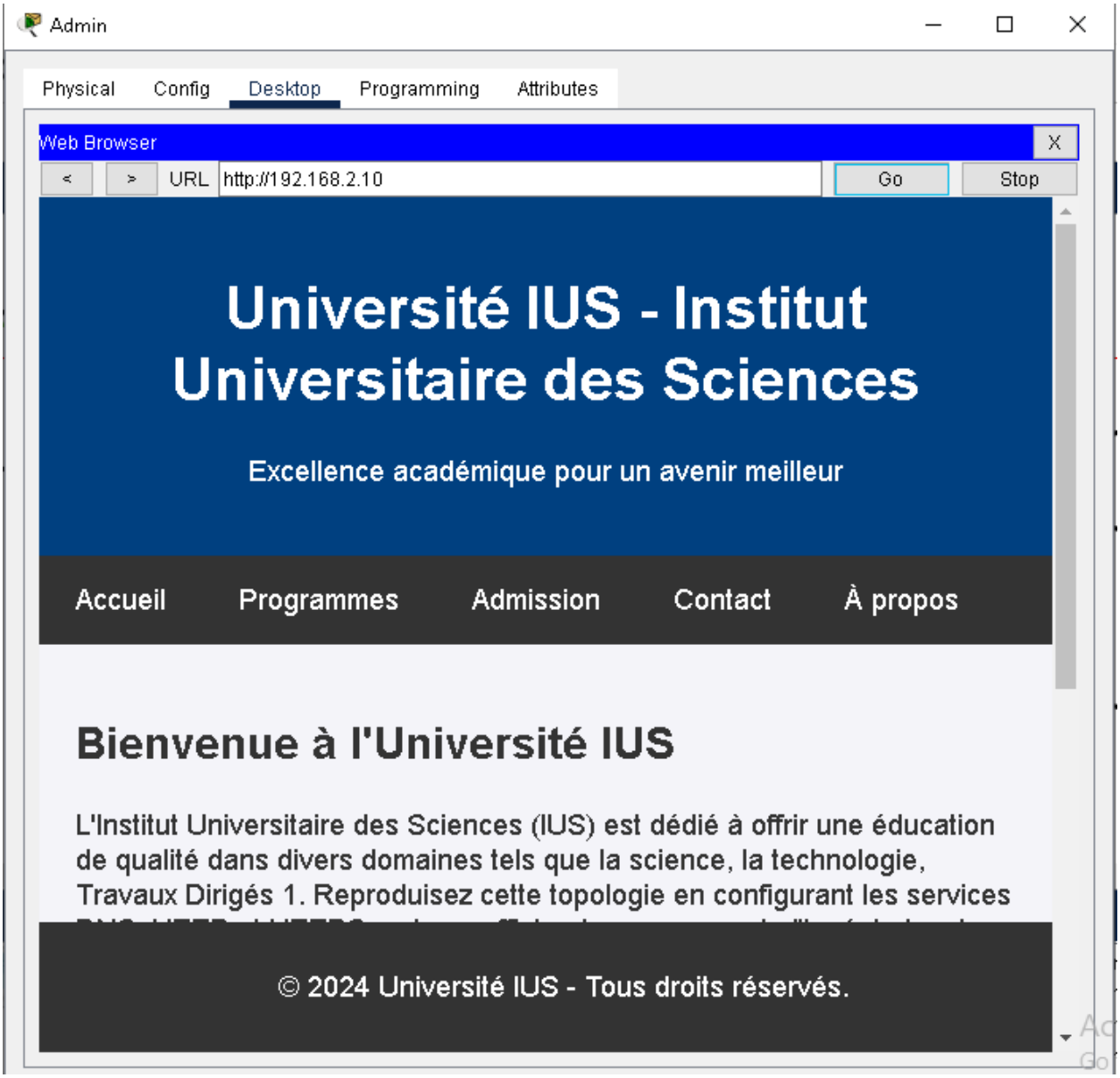
```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping www.dns.com

Pinging 192.168.2.13 with 32 bytes of data:

Reply from 192.168.2.13: bytes=32 time=10ms TTL=128
Reply from 192.168.2.13: bytes=32 time<1ms TTL=128
Reply from 192.168.2.13: bytes=32 time<1ms TTL=128
Reply from 192.168.2.13: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.2.13:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 10ms, Average = 2ms

C:\>ping www.ius.com

Pinging 192.168.2.10 with 32 bytes of data:

Reply from 192.168.2.10: bytes=32 time=10ms TTL=128
Reply from 192.168.2.10: bytes=32 time=13ms TTL=128
Reply from 192.168.2.10: bytes=32 time<1ms TTL=128
Reply from 192.168.2.10: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.2.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 13ms, Average = 5ms

C:\>
```

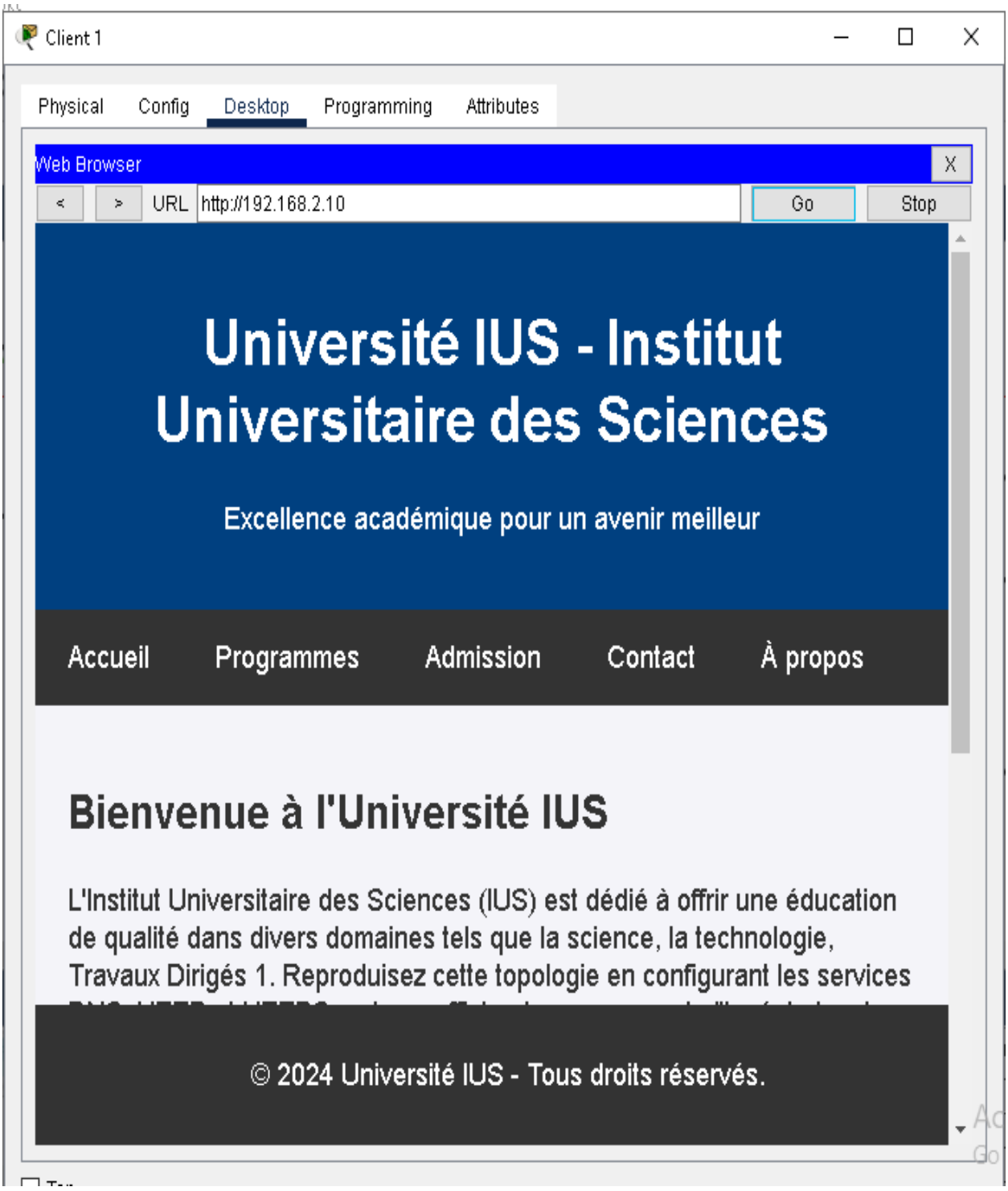
Realtime | Simulation

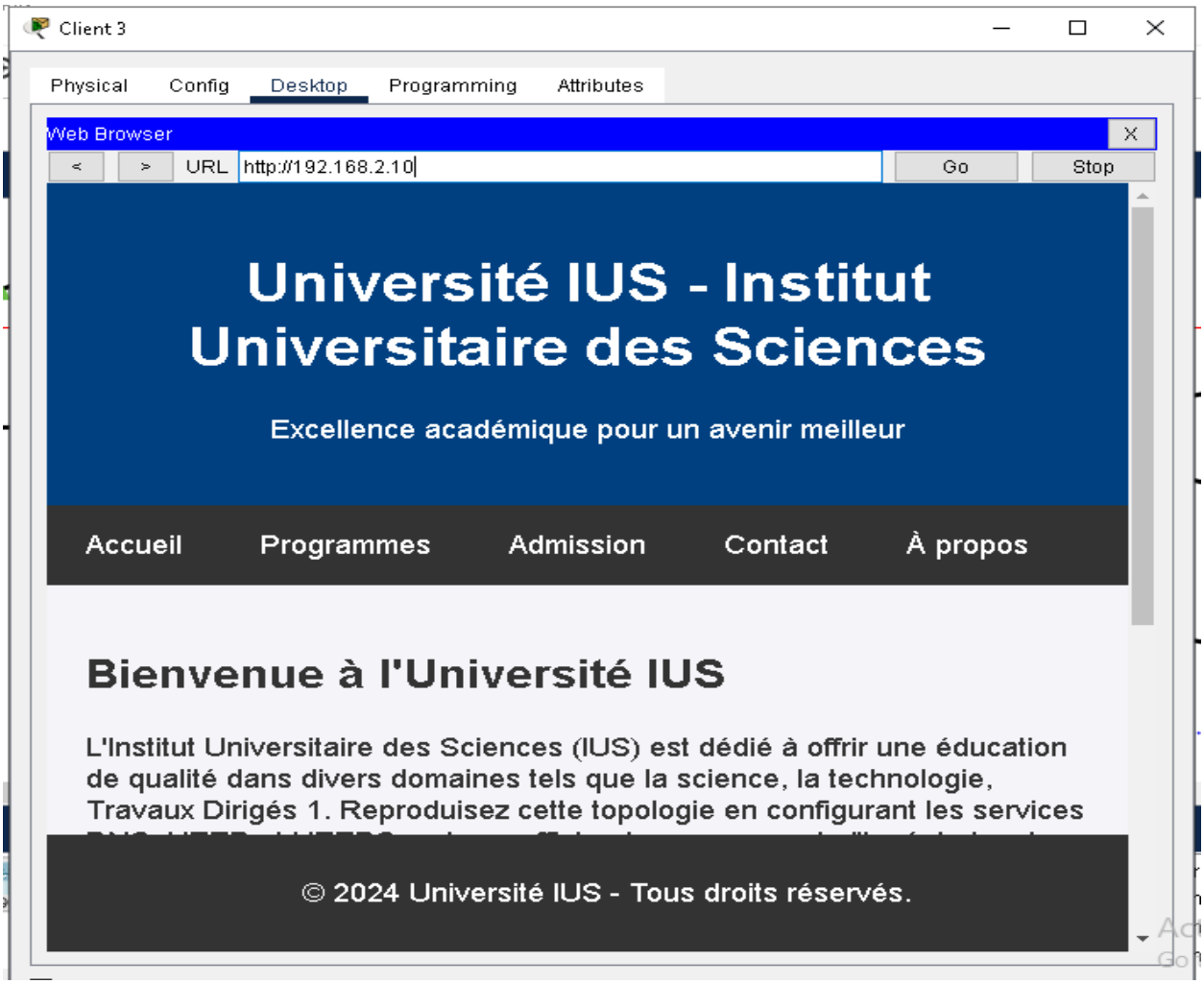
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	P
	Successful	Admin	Client 2	ICMP		0.000	
	Successful	Admin	Client 5	ICMP		0.000	
	Successful	Client 1	Server Web	ICMP		0.000	
	Successful	Client 1	Server DNS	ICMP		0.000	

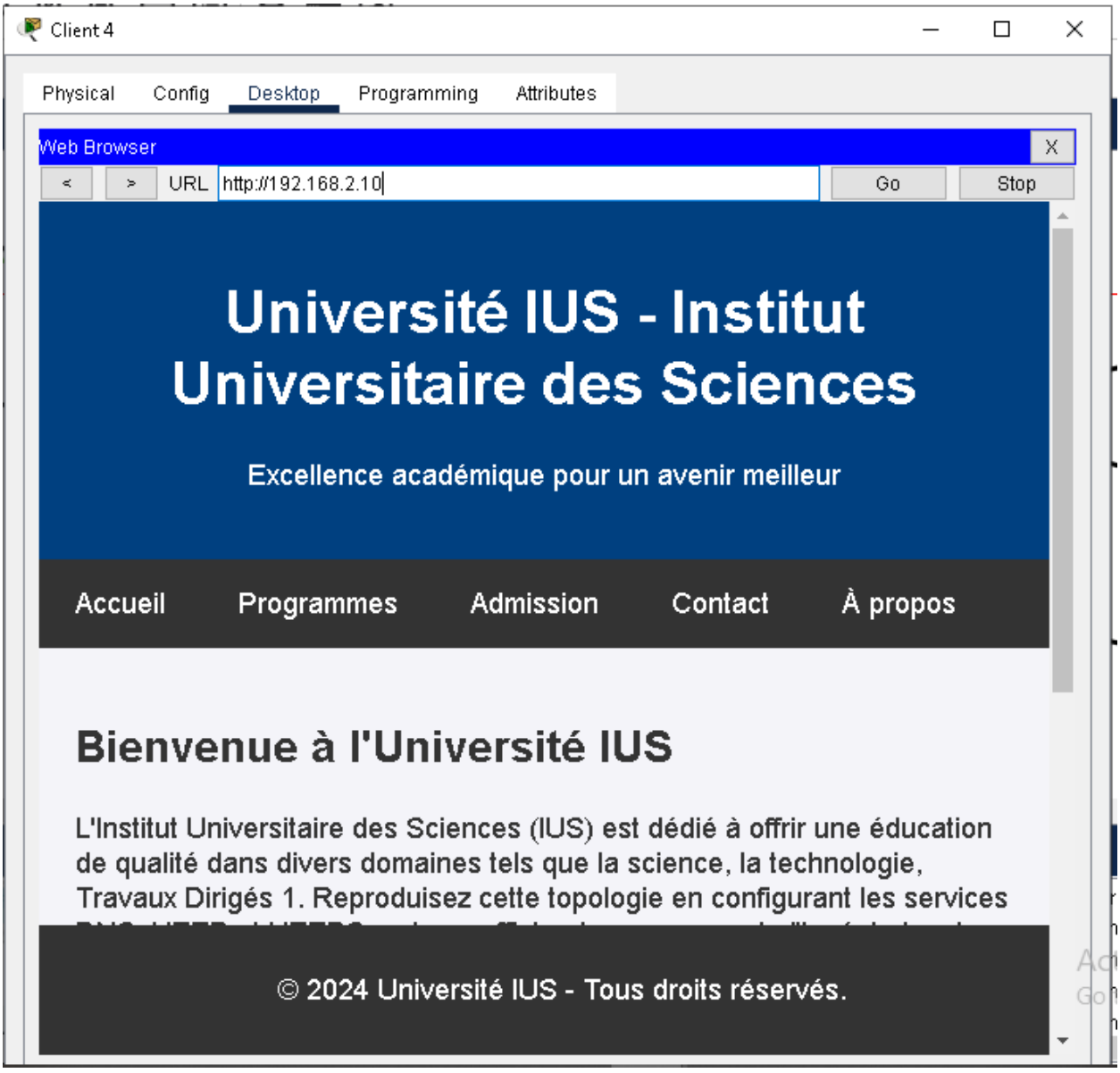


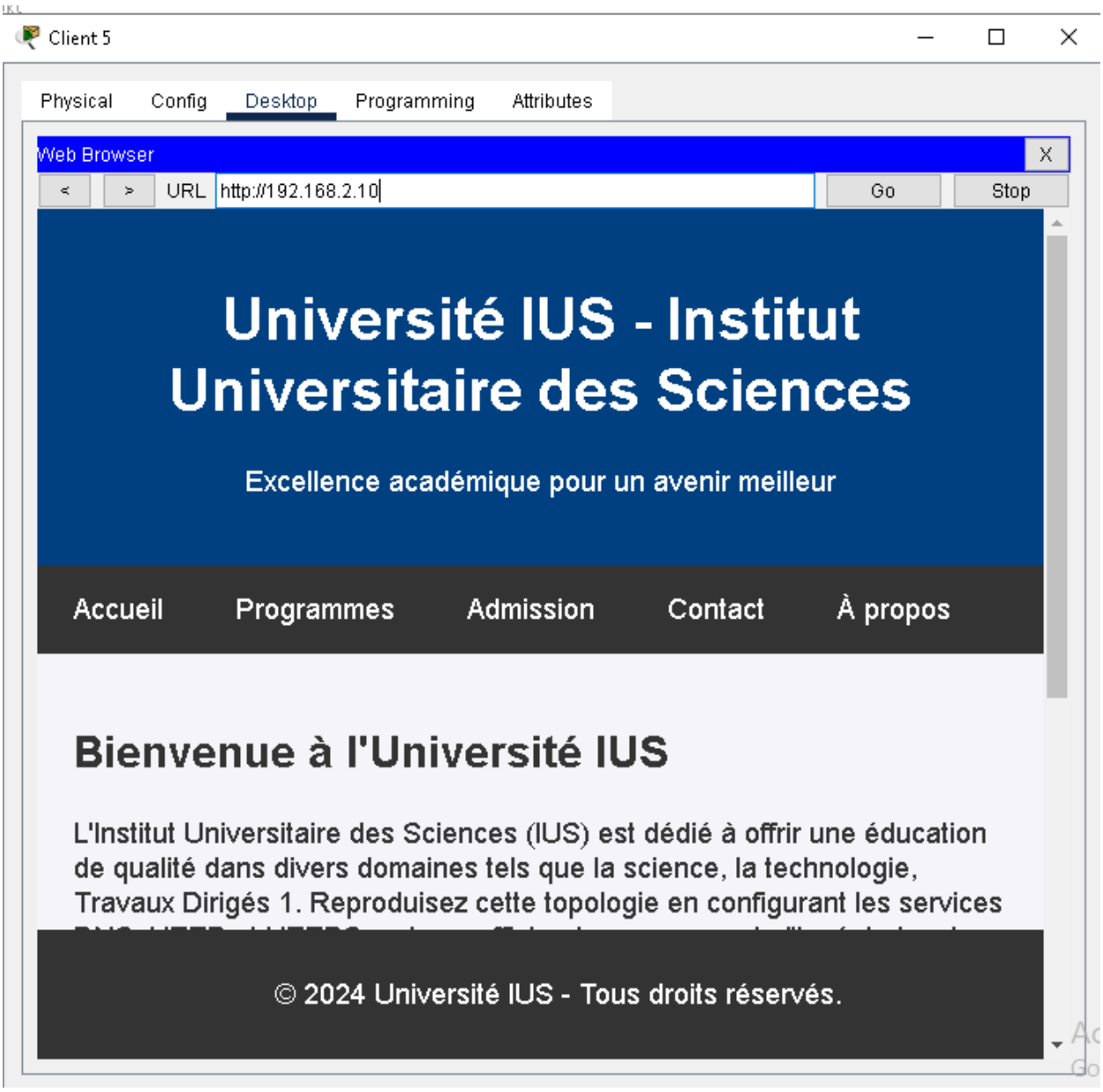
Test d’accès aux pages web depuis des PC clients.




Client 1
Physical
Config
Desktop
Programming
Attributes
Web Browser
X
<
>
URL
http://192.168.2.10
Go
Stop
Université IUS - Institut Universitaire des Sciences
Excellence académique pour un avenir meilleur
Accueil
Programmes
Admission
Contact
À propos
Bienvenue à l'Université IUS
L'Institut Universitaire des Sciences (IUS) est dédié à offrir une éducation de qualité dans divers domaines tels que la science, la technologie,
Travaux Dirigés 1. Reproduisez cette topologie en configurant les services
© 2024 Université IUS - Tous droits réservés.


Client 3
Physical
Config
Desktop
Programming
Attributes
Web Browser
URL
http://192.168.2.10
Go
Stop
Université IUS - Institut Universitaire des Sciences
Excellence académique pour un avenir meilleur
Accueil
Programmes
Admission
Contact
À propos
Bienvenue à l'Université IUS
L'Institut Universitaire des Sciences (IUS) est dédié à offrir une éducation de qualité dans divers domaines tels que la science, la technologie,
Travaux Dirigés 1. Reproduisez cette topologie en configurant les services
© 2024 Université IUS - Tous droits réservés.


Client 4
Physical
Config
Desktop
Programming
Attributes
Web Browser
X
<
>
URL
http://192.168.2.10
Go
Stop
Université IUS - Institut Universitaire des Sciences
Excellence académique pour un avenir meilleur
Accueil
Programmes
Admission
Contact
À propos
Bienvenue à l'Université IUS
L'Institut Universitaire des Sciences (IUS) est dédié à offrir une éducation de qualité dans divers domaines tels que la science, la technologie,
Travaux Dirigés 1. Reproduisez cette topologie en configurant les services
© 2024 Université IUS - Tous droits réservés.



Conclusion

L’ensemble des tests effectués confirme le bon fonctionnement des services et renforce ma maîtrise des concepts fondamentaux liés aux architectures réseau.