

La fugure 1

```
client1
Physical Config Desktop Programming Attributes
Command Prompt

Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time<1ms TTL=128
Reply from 192.168.1.1: bytes=32 time=2ms TTL=128
Reply from 192.168.1.1: bytes=32 time=3ms TTL=128
Reply from 192.168.1.1: bytes=32 time=3ms TTL=128

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 3ms, Average = 2ms
C:\>ping 2001:db8:1::1

Pinging 2001:db8:1::1 with 32 bytes of data:

Reply from 2001:db8:1::1: bytes=32 time=3ms TTL=128
Reply from 2001:db8:1::1: bytes=32 time=2ms TTL=128
Reply from 2001:db8:1::1: bytes=32 time=2ms TTL=128
Reply from 2001:db8:1::1: bytes=32 time=3ms TTL=128

Ping statistics for 2001:db8:1::1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 3ms, Average = 2ms
C:\>
```

Ipv4 et Ipv6 pour le client 1

client 2

Physical Config Desktop Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time=4ms TTL=128
Reply from 192.168.1.2: bytes=32 time=4ms TTL=128
Reply from 192.168.1.2: bytes=32 time=3ms TTL=128
Reply from 192.168.1.2: bytes=32 time=2ms TTL=128

Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 4ms, Average = 3ms
C:\>ping 2001:db8:1::1

Pinging 2001:db8:1::1 with 32 bytes of data:

Reply from 2001:db8:1::1: bytes=32 time=2ms TTL=128
Reply from 2001:db8:1::1: bytes=32 time=1ms TTL=128
Reply from 2001:db8:1::1: bytes=32 time=1ms TTL=128
Reply from 2001:db8:1::1: bytes=32 time=2ms TTL=128

Ping statistics for 2001:db8:1::1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 2ms, Average = 1ms
C:\>
```

Top

Type here to search

30°C 12:25 PM 12/2/2025

Ipv4 et Ipv6 pour le client 2

client3

Physical Config Desktop Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
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=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128

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 = 4ms, Average = 1ms
C:\>ping 2001:db8:1::3

Pinging 2001:db8:1::3 with 32 bytes of data:

Reply from 2001:db8:1::3: bytes=32 time=5ms TTL=128
Reply from 2001:db8:1::3: bytes=32 time=4ms TTL=128
Reply from 2001:db8:1::3: bytes=32 time=4ms TTL=128
Reply from 2001:db8:1::3: bytes=32 time=3ms TTL=128

Ping statistics for 2001:db8:1::3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 3ms, Maximum = 5ms, Average = 4ms
C:\>
```

Top

Type here to search

30°C 12:28 PM 12/2/2025

Ipv4 et Ipv6 pour le client 3

client4

Physical Config Desktop Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.4

Pinging 192.168.1.4 with 32 bytes of data:

Reply from 192.168.1.4: bytes=32 time<1ms TTL=128
Reply from 192.168.1.4: bytes=32 time<1ms TTL=128
Reply from 192.168.1.4: bytes=32 time<1ms TTL=128
Reply from 192.168.1.4: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 3ms, Average = 3ms

C:\>ping 2001:db8:1::4

Pinging 2001:db8:1::4 with 32 bytes of data:

Reply from 2001:db8:1::4: bytes=32 time=5ms TTL=128
Reply from 2001:db8:1::4: bytes=32 time=4ms TTL=128
Reply from 2001:db8:1::4: bytes=32 time=3ms TTL=128
Reply from 2001:db8:1::4: bytes=32 time=4ms TTL=128

Ping statistics for 2001:db8:1::4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 3ms, Maximum = 5ms, Average = 3ms

C:\>
```

Top

Type here to search

30°C 12:30 PM 12/2/2025

Ipv4 et Ipv6 pour le client 4

```
client5
Physical Config Desktop Programming Attributes
Command Prompt
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.5

Pinging 192.168.1.5 with 32 bytes of data:

Reply from 192.168.1.5: bytes=32 time=1ms TTL=128
Reply from 192.168.1.5: bytes=32 time=1ms TTL=128
Reply from 192.168.1.5: bytes=32 time=1ms TTL=128
Reply from 192.168.1.5: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.1.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 3ms, Average = 1ms

C:\>ping 2001:DB8:1::1

Pinging 2001:DB8:1::1 with 32 bytes of data:

Reply from 2001:DB8:1::1: bytes=32 time=2ms TTL=128
Reply from 2001:DB8:1::1: bytes=32 time=1ms TTL=128
Reply from 2001:DB8:1::1: bytes=32 time=1ms TTL=128
Reply from 2001:DB8:1::1: bytes=32 time=1ms TTL=128

Ping statistics for 2001:DB8:1::1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 2ms, Average = 0ms

C:\>
```

Ipv4 et Ipv6 pour le client 5

```
Admin
Physical Config Desktop Programming Attributes
Command Prompt

Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.6

Pinging 192.168.1.6 with 32 bytes of data:

Reply from 192.168.1.6: bytes=32 time=3ms TTL=128
Reply from 192.168.1.6: bytes=32 time=4ms TTL=128
Reply from 192.168.1.6: bytes=32 time=3ms TTL=128
Reply from 192.168.1.6: bytes=32 time=3ms TTL=128

Ping statistics for 192.168.1.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 3ms, Maximum = 4ms, Average = 3ms
C:\>ping 2001:db8::1::6

Pinging 2001:db8::1::6 with 32 bytes of data:

Reply from 2001:db8::1::6: bytes=32 time=5ms TTL=128
Reply from 2001:db8::1::6: bytes=32 time=1ms TTL=128
Reply from 2001:db8::1::6: bytes=32 time=4ms TTL=128
Reply from 2001:db8::1::6: bytes=32 time=11ms TTL=128

Ping statistics for 2001:db8::1::6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 11ms, Average = 30ms
C:\>
```

Ipv4 et Ipv6 pour Admin

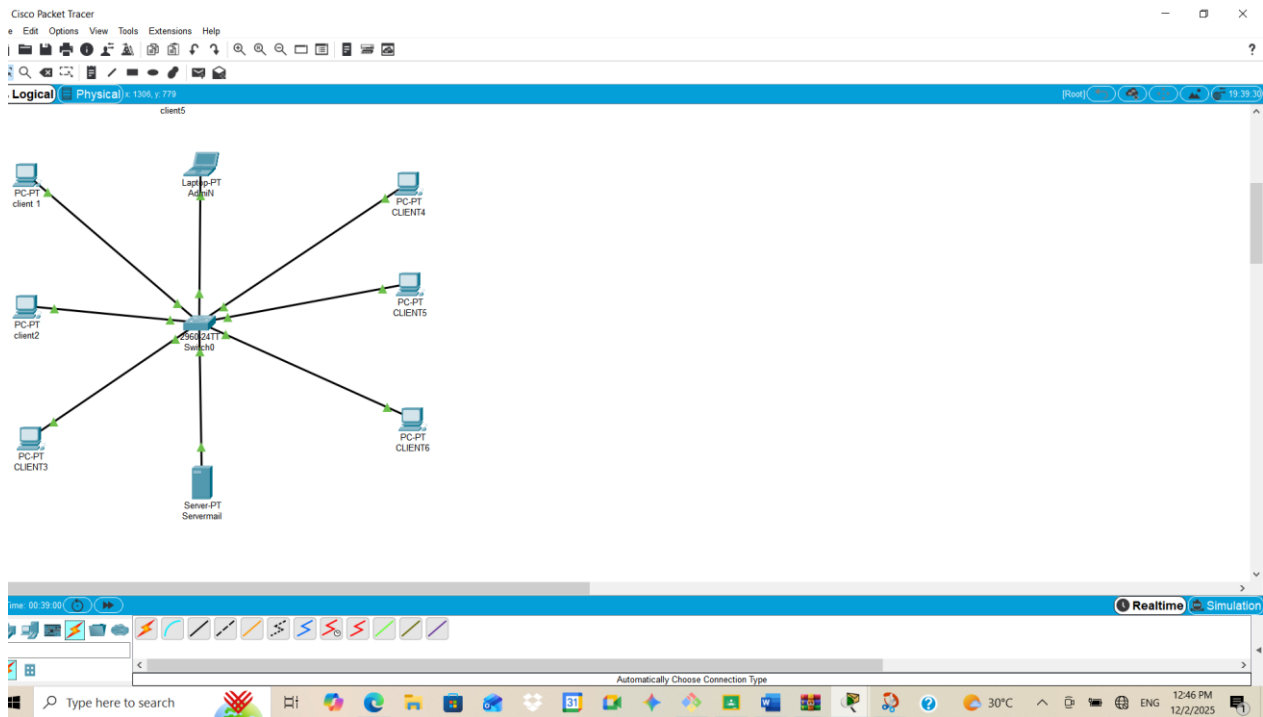


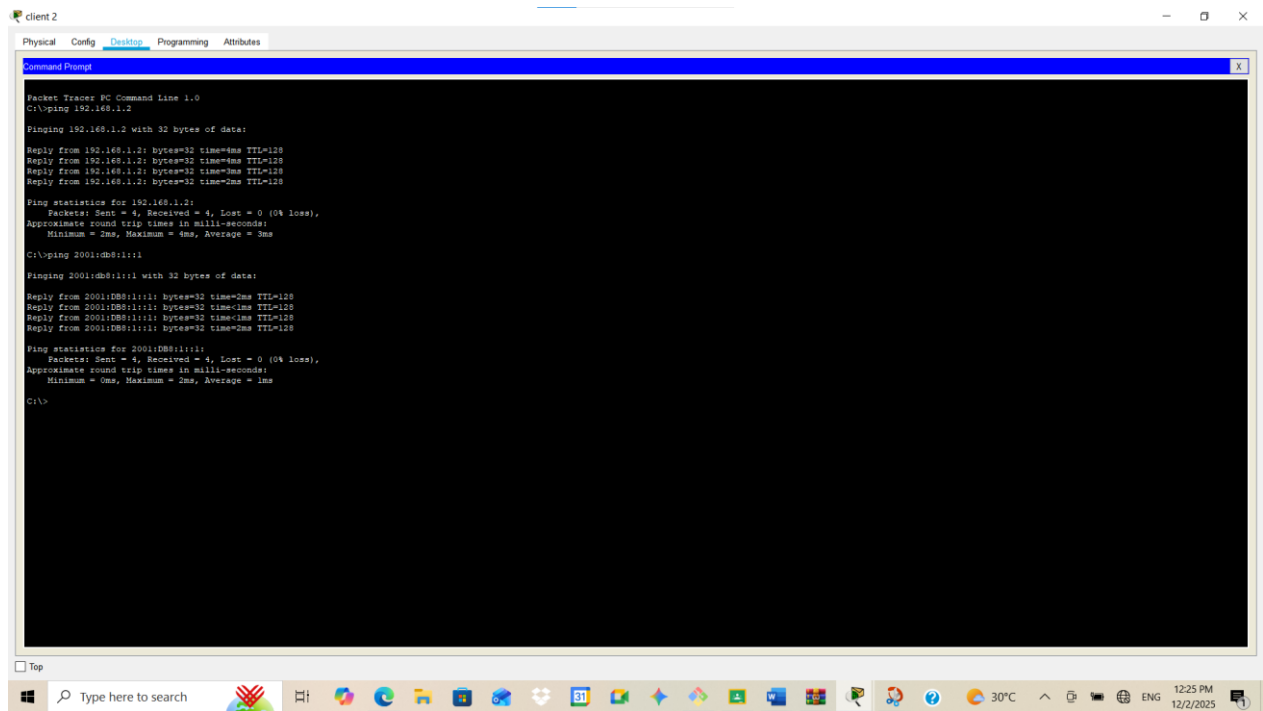
Figure 2

```

client1
Physical Config Desktop Programming Attributes
Command Prompt
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.1
Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time=3ms TTL=128
Reply from 192.168.1.1: bytes=32 time=3ms TTL=128
Reply from 192.168.1.1: bytes=32 time=3ms TTL=128
Reply from 192.168.1.1: bytes=32 time=3ms TTL=128
Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 3ms, Maximum = 3ms, Average = 3ms
C:\>ping 2001:db8:1::1
Pinging 2001:db8:1::1 with 32 bytes of data:
Reply from 2001:db8:1::1: bytes=32 time=3ms TTL=128
Reply from 2001:db8:1::1: bytes=32 time=3ms TTL=128
Reply from 2001:db8:1::1: bytes=32 time=3ms TTL=128
Reply from 2001:db8:1::1: bytes=32 time=3ms TTL=128
Ping statistics for 2001:db8:1::1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 3ms, Maximum = 3ms, Average = 3ms
C:\>
    
```

Ipv4 et Ipv6 pour le client 1





Ipv4 et Ipv6 pour le client 2

client3

Physical Config Desktop Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
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=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128

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 = 4ms, Average = 1ms

C:\>ping 2001:db8:1::3

Pinging 2001:db8:1::3 with 32 bytes of data:

Reply from 2001:db8:1::3: bytes=32 time=5ms TTL=128
Reply from 2001:db8:1::3: bytes=32 time=4ms TTL=128
Reply from 2001:db8:1::3: bytes=32 time=4ms TTL=128
Reply from 2001:db8:1::3: bytes=32 time=3ms TTL=128

Ping statistics for 2001:db8:1::3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 3ms, Maximum = 5ms, Average = 4ms

C:\>
```

Top

Type here to search

30°C

ENG 12:28 PM 12/2/2025

## Ipv4 et Ipv6 pour le client 3

client4

Physical Config Desktop Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.4

Pinging 192.168.1.4 with 32 bytes of data:

Reply from 192.168.1.4: bytes=32 time<1ms TTL=128
Reply from 192.168.1.4: bytes=32 time<1ms TTL=128
Reply from 192.168.1.4: bytes=32 time<1ms TTL=128
Reply from 192.168.1.4: bytes=32 time=3ms TTL=128

Ping statistics for 192.168.1.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 3ms, Average = 1ms

C:\>ping 2001:db8:1::4

Pinging 2001:db8:1::4 with 32 bytes of data:

Reply from 2001:db8:1::4: bytes=32 time=5ms TTL=128
Reply from 2001:db8:1::4: bytes=32 time=4ms TTL=128
Reply from 2001:db8:1::4: bytes=32 time=2ms TTL=128
Reply from 2001:db8:1::4: bytes=32 time=4ms TTL=128

Ping statistics for 2001:db8:1::4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 5ms, Average = 3ms

C:\>
```

Top

Type here to search

30°C

ENG 12:30 PM 12/2/2025

## Ipv4 et Ipv6 pour le client 4

client5

Physical Config Desktop Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.5

Pinging 192.168.1.5 with 32 bytes of data:

Reply from 192.168.1.5: bytes=32 time=1ms TTL=128
Reply from 192.168.1.5: bytes=32 time=1ms TTL=128
Reply from 192.168.1.5: bytes=32 time=3ms TTL=128
Reply from 192.168.1.5: bytes=32 time=2ms TTL=128

Ping statistics for 192.168.1.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 3ms, Average = 1ms

C:\>ping 2001:db8::1:1

Pinging 2001:db8::1:1 with 32 bytes of data:

Reply from 2001:db8::1:1: bytes=32 time=2ms TTL=128
Reply from 2001:db8::1:1: bytes=32 time=1ms TTL=128
Reply from 2001:db8::1:1: bytes=32 time=1ms TTL=128
Reply from 2001:db8::1:1: bytes=32 time=1ms TTL=128

Ping statistics for 2001:db8::1:1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 2ms, Average = 0ms

C:\>
```

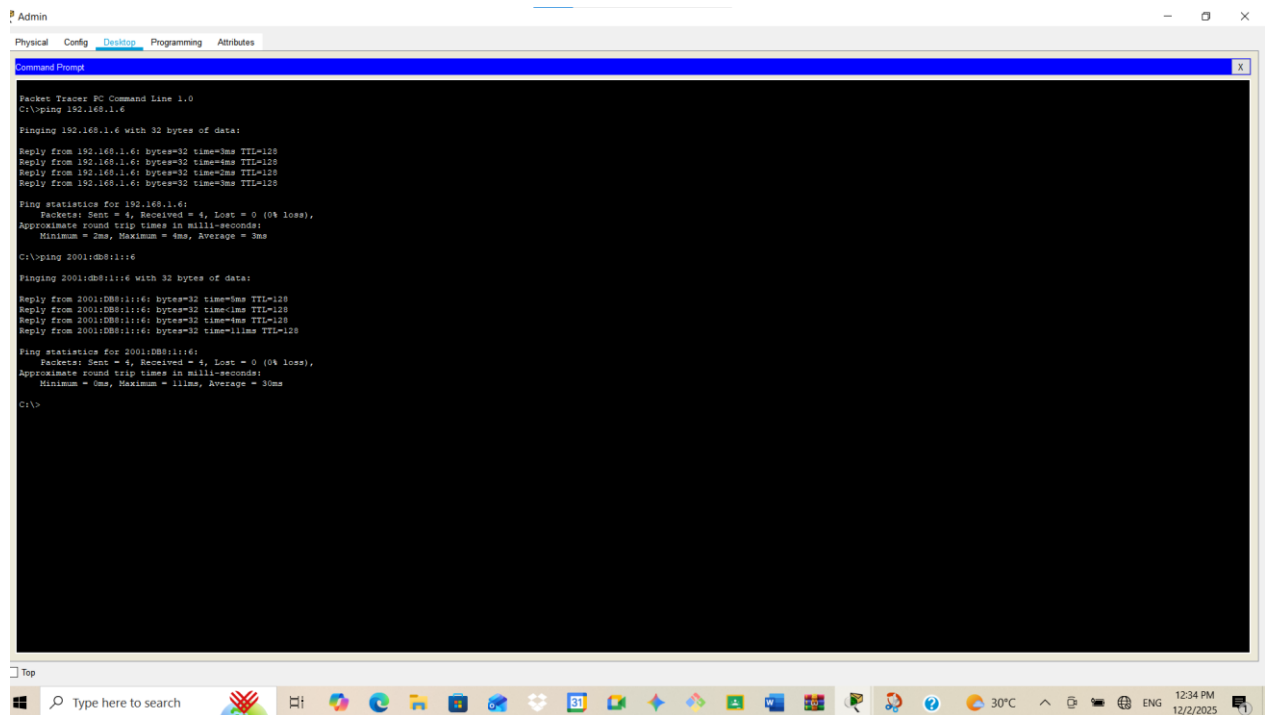
Top

Type here to search

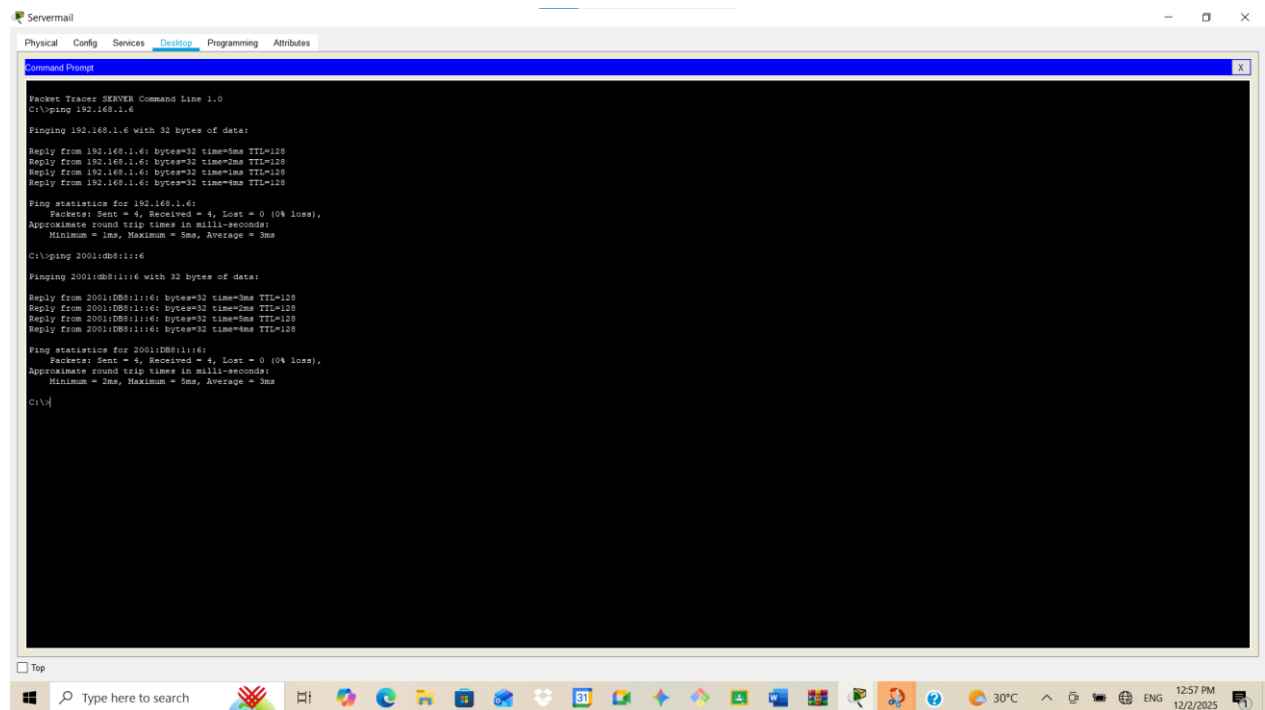
30°C

ENG 12:32 PM 12/2/2025

Ipv4 et Ipv6 pour le client 5



## IPv4 et Ipv6 pour Admin



## Ipv4 et Ipv6 pour le servermail

**INSTITUT UNIVERSITAIRE DES SCIENCES**

FACULTE : FACULTE DES SCIENCES ET TECHNOLOGIE

TD : RESEAUX 3

NOM & PRENOM : LaLOI GUIBY KERVENS

NIVEAU : L3

DATE : MARDI 2 DECEMBRE 2025

## Objectif du TD

L'objectif principal de ce Travail Dirigé est de **maîtriser l'adressage IP** (IPv4 et IPv6) et de savoir l'appliquer concrètement. Cela se decline en trois points essentiels :

1. **Comprendre et calculer** l'adressage (adresses réseau, hôte, masque) pour attribuer des **adresses valides**.
2. **Mettre en œuvre** cette configuration sur des équipements réseaux (hôtes et routeurs) en utilisant l'environnement de simulation **Cisco Packet Tracer**.
3. **Valider la connectivité** entre les différents équipements configurés en utilisant les commandes de test standard (ping et ping ipv6).

Ce TD est une étape fondamentale pour tout professionnel des réseaux. En réussissant à attribuer des adresses IP correctement et à vérifier la communication entre les machines, vous avez acquis la **compétence de base essentielle** nécessaire à la conception, à la configuration, et au dépannage de tout réseau local ou étendu. La maîtrise de ces principes est la **clé de voûte** pour aborder des sujets plus avancés comme le routage dynamique ou les services réseau. J'ai bel et bien rencontré des difficultés surtout avec la configuration des adresse IP Mais grâce a l'aide que me portent les étudiants et des recherches j'ai pu résolu ces problèmes.