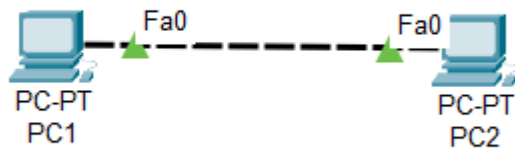


Basic

Topologie de la connectivité entre le Pc1 et Pc2 :



```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.3

Pinging 192.168.1.3 with 32 bytes of data:

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

Ping statistics for 192.168.1.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

```
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<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms 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 = 0ms, Maximum = 0ms, Average = 0ms
```

```
Cisco 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<1ms TTL=128
Reply from 192.168.1.1: bytes=32 time<1ms TTL=128
Reply from 192.168.1.1: bytes=32 time<1ms TTL=128

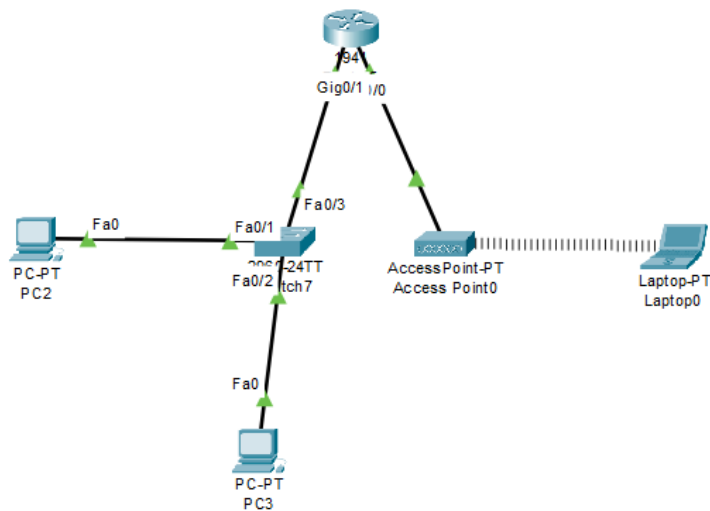
Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

Montrez-nous que vous avez compris ! Pouvez-vous me dire quelle est la différence entre Fast Ethernet 0/1 et 1/1 ?

La principale différence réside dans la manière dont les **informations sont structurées dans la notation**. "Fast Ethernet 0/1" est **plus explicite** en indiquant le type d'interface, tandis que "1/1" est **plus concis mais suppose que vous connaissez déjà le type d'interface** (dans ce cas, Fast Ethernet) et que vous savez à quoi correspondent les numéros de module et d'interface.

Switch

Topologie de 2 sous réseaux dont 1 en wifi :



PC0

Physical Config Desktop Programming Attributes

Command Prompt

```

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 172.16.1.2

Pinging 172.16.1.2 with 32 bytes of data:

Reply from 172.16.1.2: bytes=32 time=16ms TTL=127
Reply from 172.16.1.2: bytes=32 time=21ms TTL=127
Reply from 172.16.1.2: bytes=32 time=18ms TTL=127
Reply from 172.16.1.2: bytes=32 time=16ms TTL=127

Ping statistics for 172.16.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 16ms, Maximum = 21ms, Average = 17ms

C:\>

```

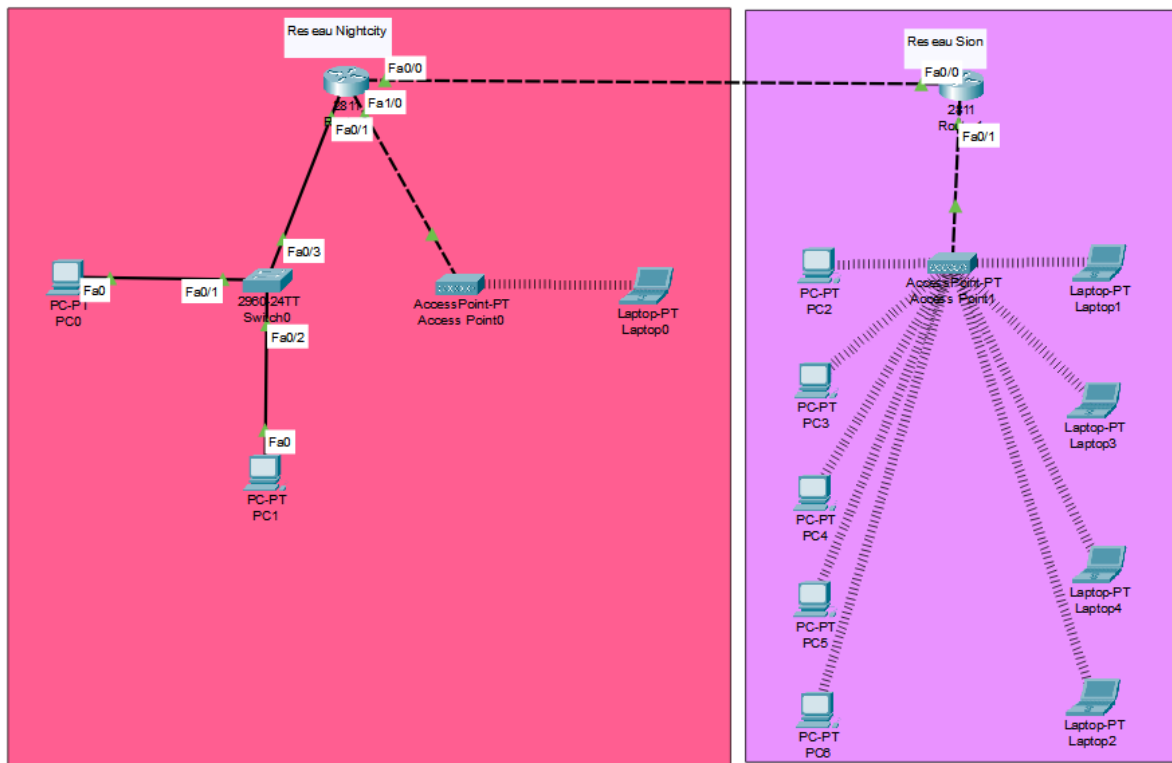
Idoine

Envoie de PDU simple et PDU complexe, toutes les 5 secondes ;

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	PC1	ICMP		0.000	N	0	(edit)	(delete)
	Successful	PC0	Laptop0	ICMP		0.000	N	1	(edit)	(delete)
	Successful	PC1	Laptop0	ICMP		0.000	N	2	(edit)	(delete)
	Failed	Laptop0	PC1	ICMP		0.000	N	2	(edit)	(delete)
	Successful	PC0	PC1	ICMP		0.000	N	3	(edit)	(delete)
	Successful	PC0	192.168.1.3	ICMP		5.000	Y	4	(edit)	(delete)

Multi-réseau

Topologie de 2 réseaux distincts représentant 1 ville chacun :



```
PC0
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.3

Pinging 192.168.0.3 with 32 bytes of data:

Request timed out.
Request timed out.
Reply from 192.168.0.3: bytes=32 time=14ms TTL=126
Reply from 192.168.0.3: bytes=32 time=33ms TTL=126

Ping statistics for 192.168.0.3:
    Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 14ms, Maximum = 33ms, Average = 23ms

C:\>ping 192.168.0.3

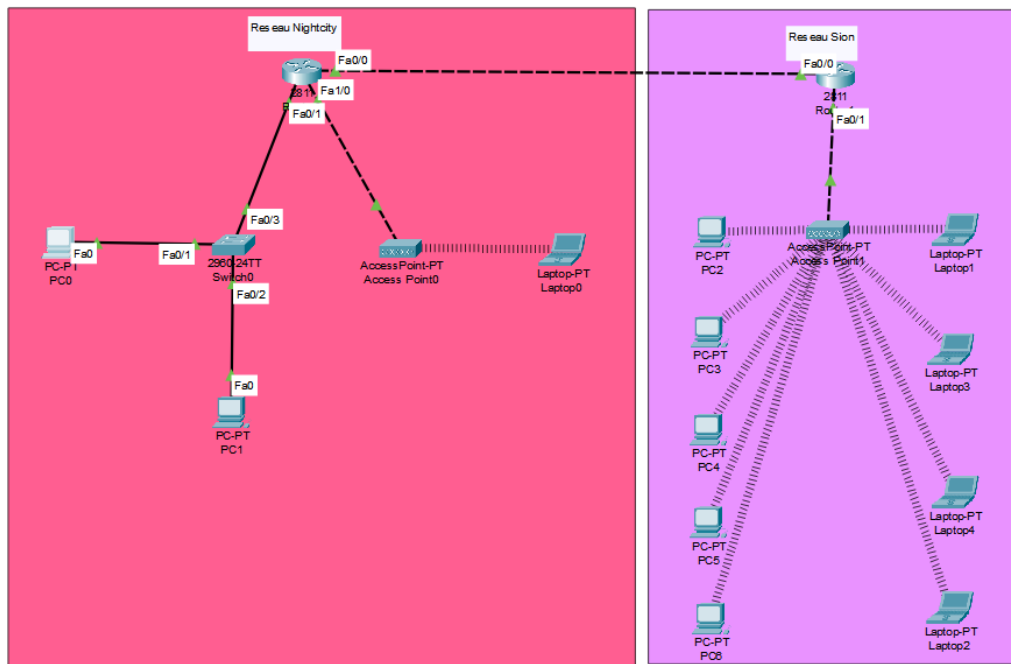
Pinging 192.168.0.3 with 32 bytes of data:

Reply from 192.168.0.3: bytes=32 time=18ms TTL=126
Reply from 192.168.0.3: bytes=32 time=35ms TTL=126
Reply from 192.168.0.3: bytes=32 time=12ms TTL=126
Reply from 192.168.0.3: bytes=32 time=7ms TTL=126

Ping statistics for 192.168.0.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 7ms, Maximum = 35ms, Average = 18ms
```

Micro Réseau

Topologie de 2 réseaux distincts représentant 1 ville chacun :



PC1

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

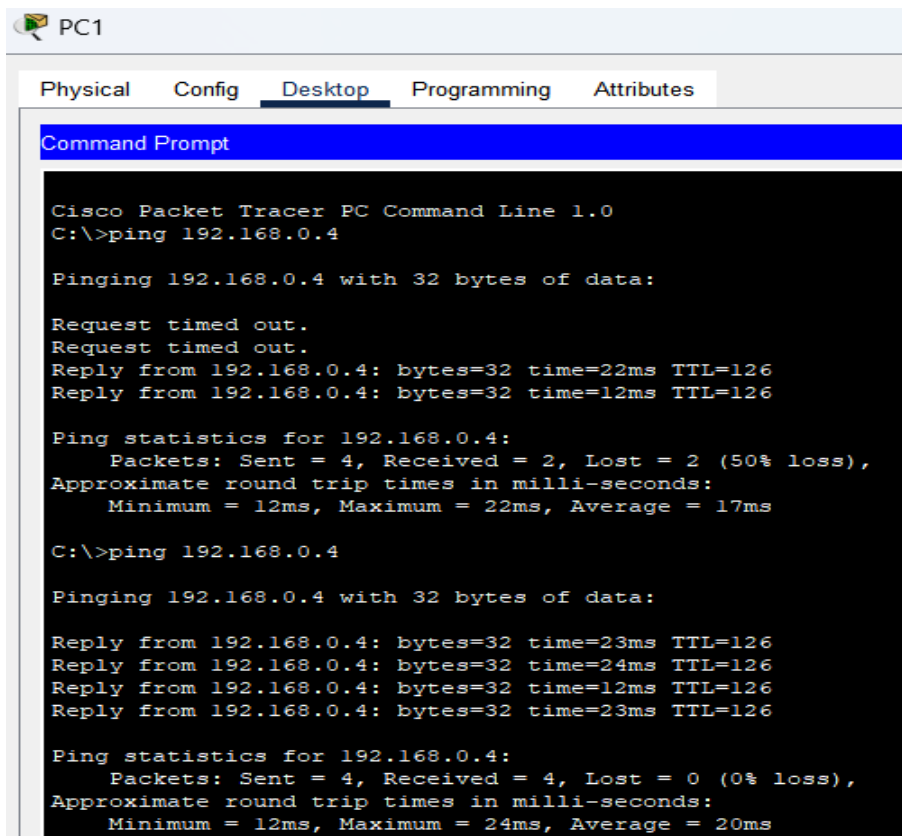
☒ DHCP ☐ Static

IPv4 Address 192.168.1.2

Subnet Mask 255.255.255.0

Default Gateway 192.168.1.1

DNS Server 8.8.8.8



The screenshot shows the 'PC1' window in Cisco Packet Tracer. The 'Desktop' tab is selected, displaying a 'Command Prompt' window. The window title is 'Cisco Packet Tracer PC Command Line 1.0'. The user has entered the command 'C:\>ping 192.168.0.4'. The output shows two ping attempts. The first attempt results in two 'Request timed out.' messages and two successful replies from 192.168.0.4 with 32 bytes of data, 22ms and 12ms round trip times, and a TTL of 126. The statistics for the first attempt show 4 packets sent, 2 received, and a 50% loss. The second attempt shows four successful replies with round trip times of 23ms, 24ms, 12ms, and 23ms, all with a TTL of 126. The statistics for the second attempt show 4 packets sent, 4 received, and 0% loss.

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.4

Pinging 192.168.0.4 with 32 bytes of data:

Request timed out.
Request timed out.
Reply from 192.168.0.4: bytes=32 time=22ms TTL=126
Reply from 192.168.0.4: bytes=32 time=12ms TTL=126

Ping statistics for 192.168.0.4:
    Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 12ms, Maximum = 22ms, Average = 17ms

C:\>ping 192.168.0.4

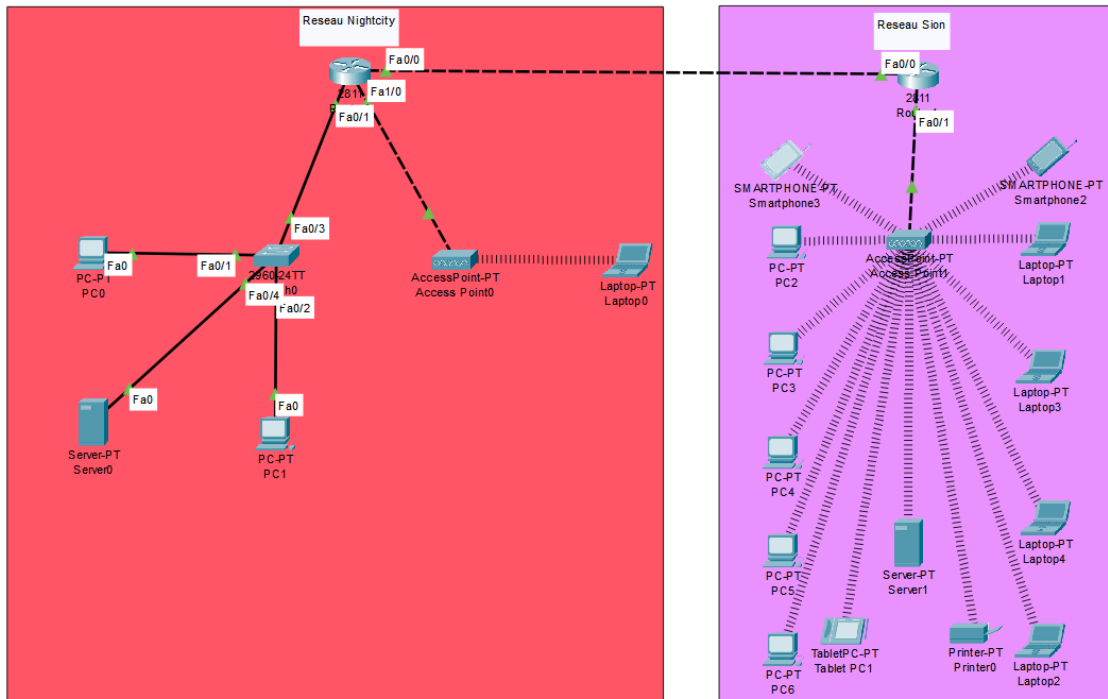
Pinging 192.168.0.4 with 32 bytes of data:

Reply from 192.168.0.4: bytes=32 time=23ms TTL=126
Reply from 192.168.0.4: bytes=32 time=24ms TTL=126
Reply from 192.168.0.4: bytes=32 time=12ms TTL=126
Reply from 192.168.0.4: bytes=32 time=23ms TTL=126

Ping statistics for 192.168.0.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 12ms, Maximum = 24ms, Average = 20ms
```

À vos smarts

Topologie de 2 réseaux distincts avec ajout de 4 périphériques :



Smartphone3

Physical Config **Desktop** Programming Attributes

Command Prompt

```

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.3

Pinging 192.168.0.3 with 32 bytes of data:

Reply from 192.168.0.3: bytes=32 time=29ms TTL=128
Reply from 192.168.0.3: bytes=32 time=30ms TTL=128
Reply from 192.168.0.3: bytes=32 time=45ms TTL=128
Reply from 192.168.0.3: bytes=32 time=29ms TTL=128

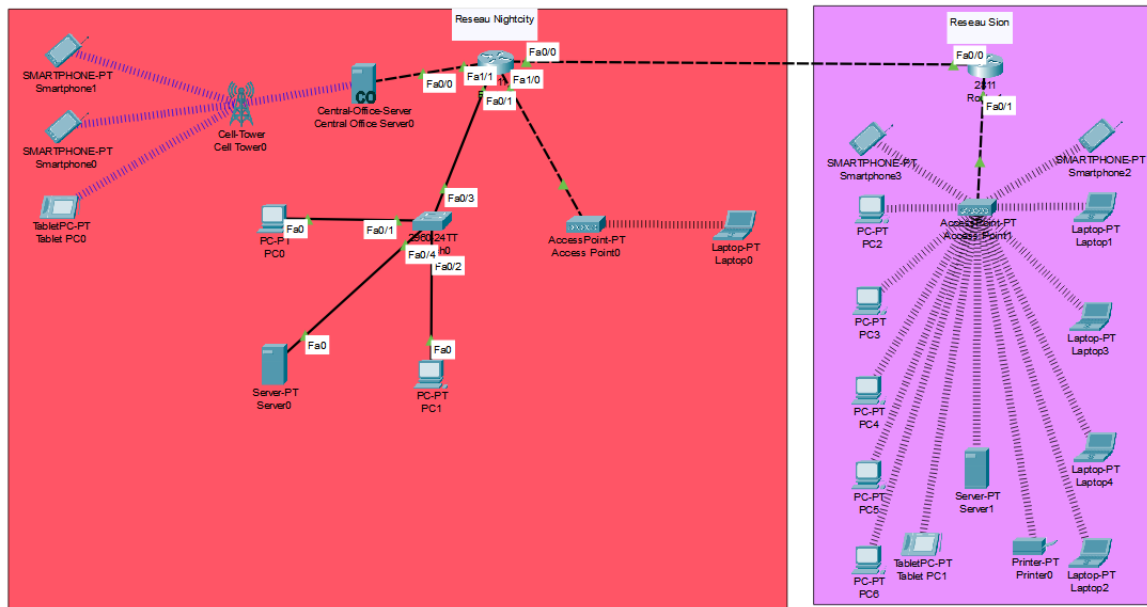
Ping statistics for 192.168.0.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 29ms, Maximum = 45ms, Average = 33ms

C:\>

```

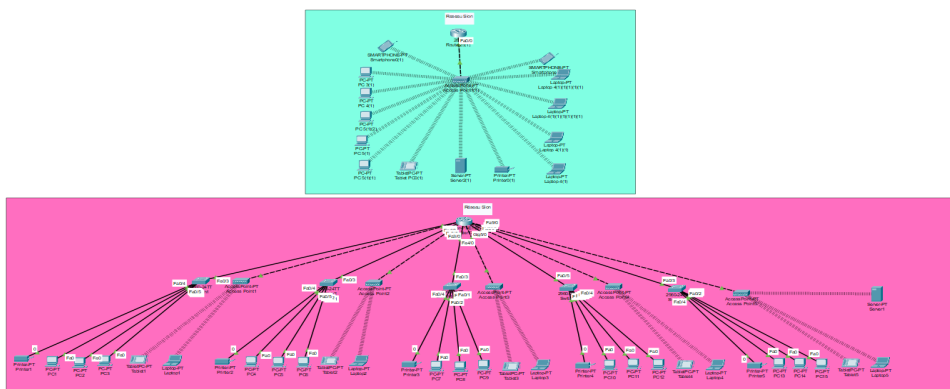
Réseau mobile

Topologie de 2 réseaux distincts avec ajout de la Cell Tower et ses 3 périphériques :



Architecture Physique

Topologie de l'interface Logique et Physique de l'ancien réseau Sion et du nouveau :



PC1

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.11.2

Pinging 192.168.11.2 with 32 bytes of data:

Request timed out.
Reply from 192.168.11.2: bytes=32 time=26ms TTL=127
Reply from 192.168.11.2: bytes=32 time=21ms TTL=127
Reply from 192.168.11.2: bytes=32 time=32ms TTL=127

Ping statistics for 192.168.11.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 21ms, Maximum = 32ms, Average = 26ms

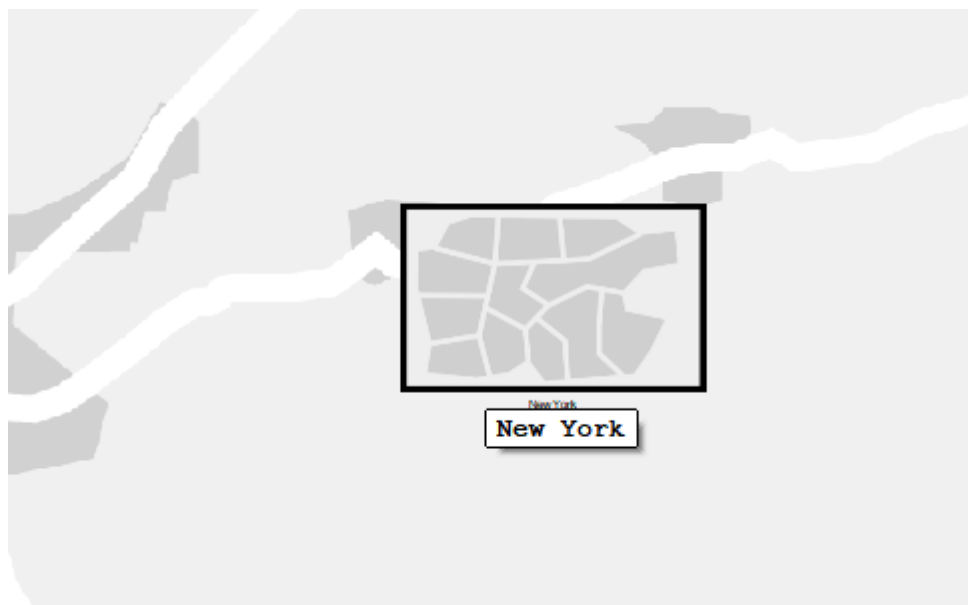
C:\>ping 192.168.11.2

Pinging 192.168.11.2 with 32 bytes of data:

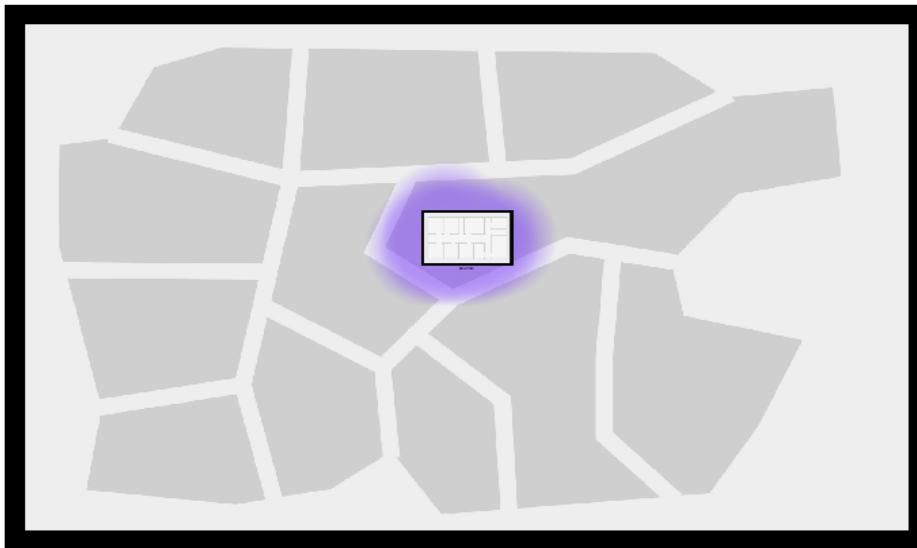
Reply from 192.168.11.2: bytes=32 time=29ms TTL=127
Reply from 192.168.11.2: bytes=32 time=6ms TTL=127
Reply from 192.168.11.2: bytes=32 time=32ms TTL=127
Reply from 192.168.11.2: bytes=32 time=41ms TTL=127

Ping statistics for 192.168.11.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 6ms, Maximum = 41ms, Average = 27ms
```

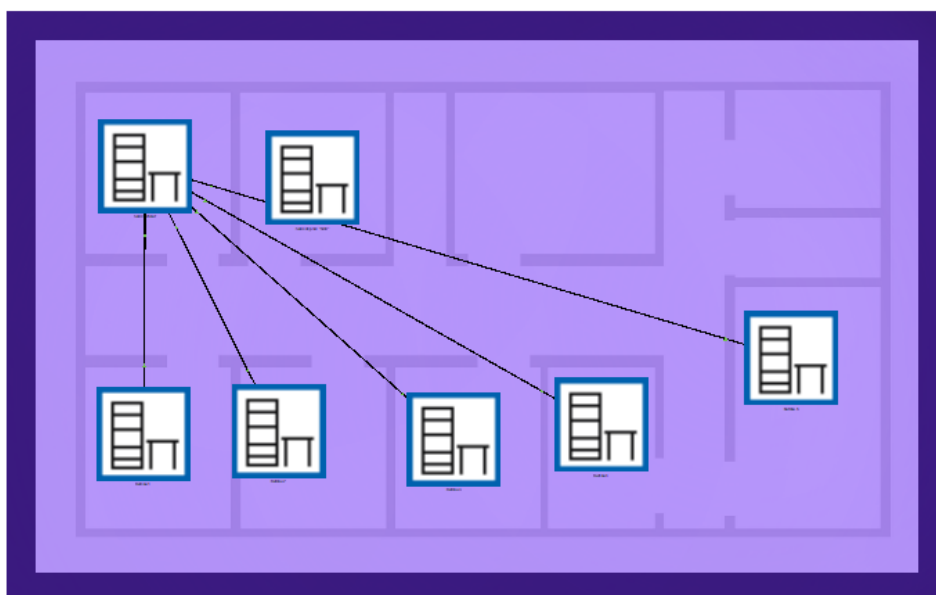
Intercity



City



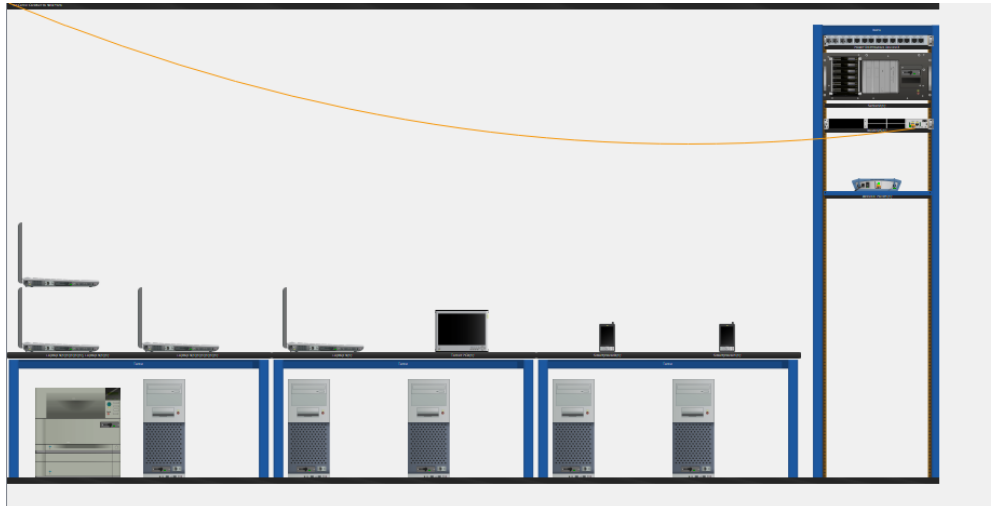
Les différentes salles et bureaux



Nouveau Réseau Sion (Bureau 1)



Ancien Réseau Sion (Salle de pose)



Salle Serveur

