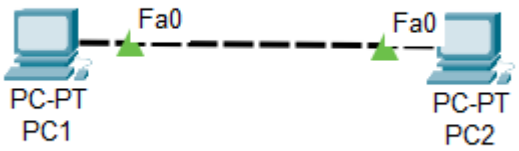
## Basic

## 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
```

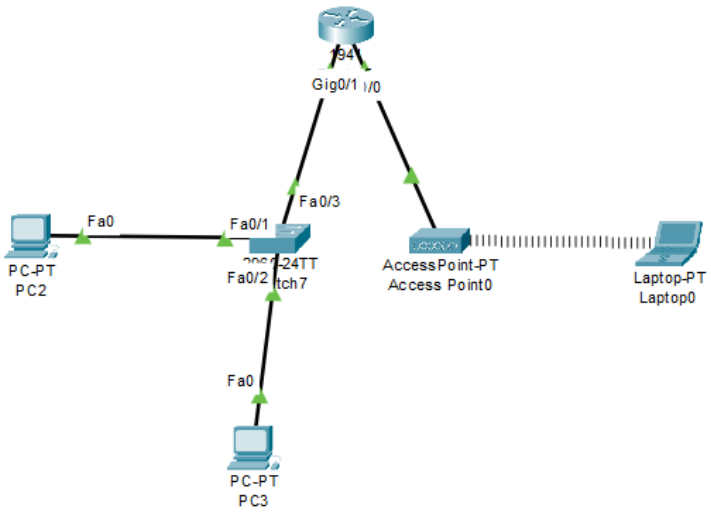
```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.1

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
```

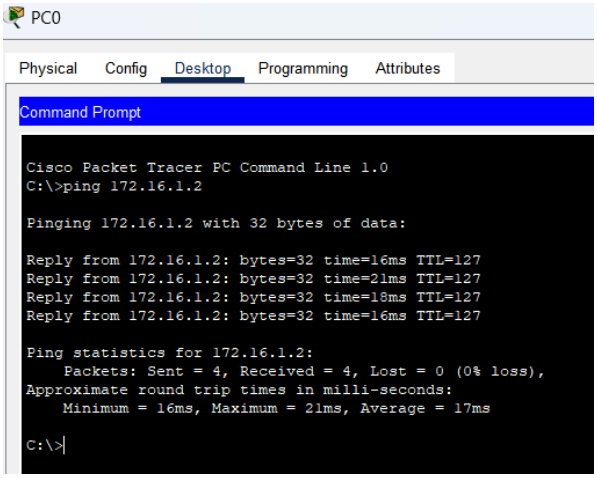
***Montrez-nous que vous avez compris ! Pouvez-vous me dire quelle est la différence entre Fast Ethernet 0/1 et 1/1 ?***

**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 ;



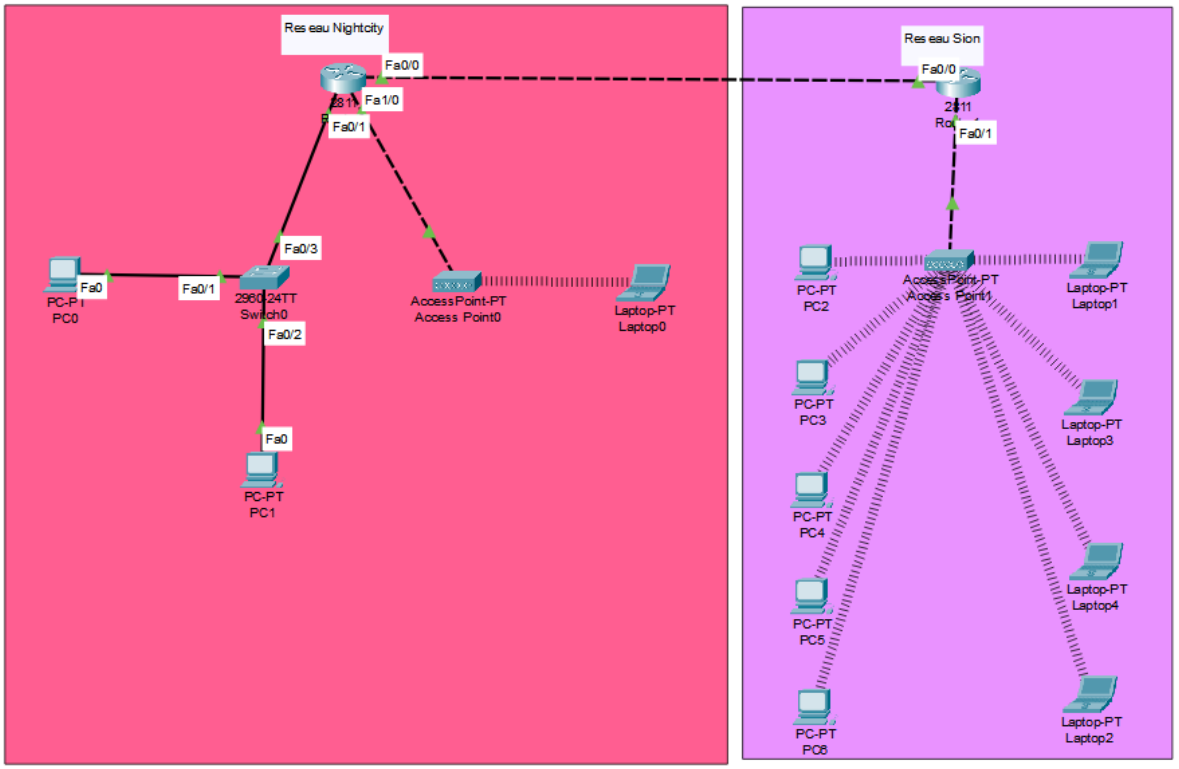

## Idoine

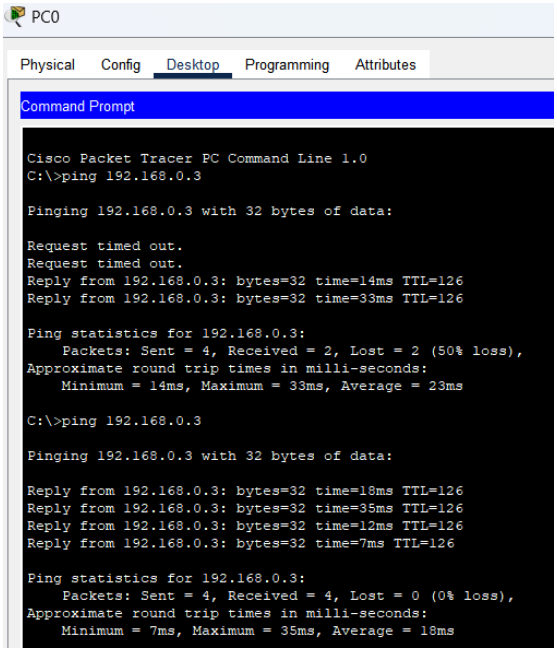
## Envoie de PDU simple et PDU complexe, toutes les 5 secondes ;

| 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

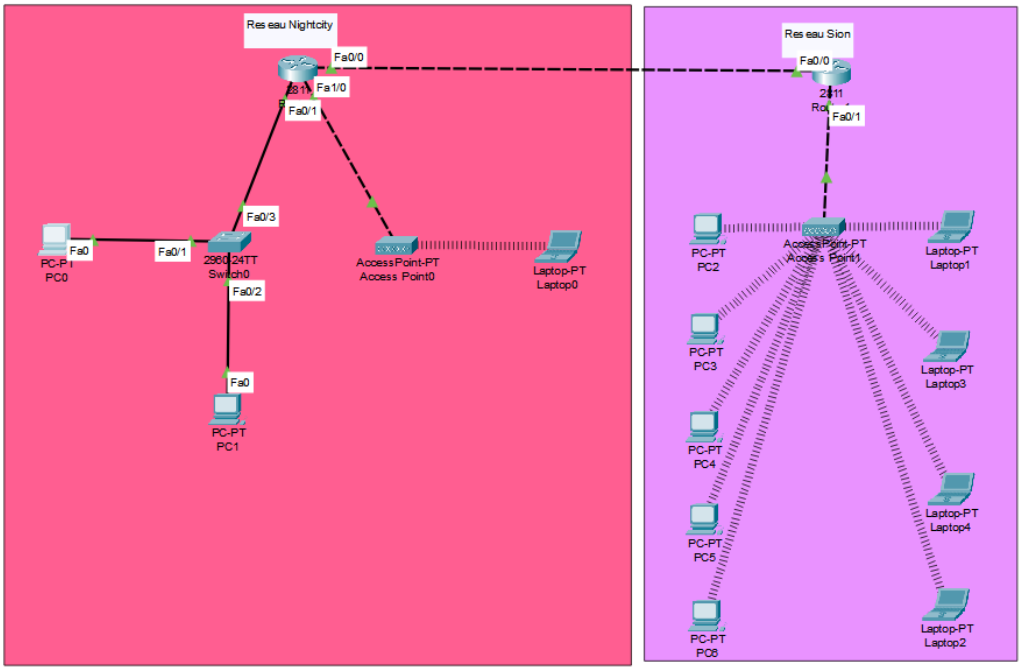
## Topologie de 2 réseaux distincts représentant 1 ville chacun :

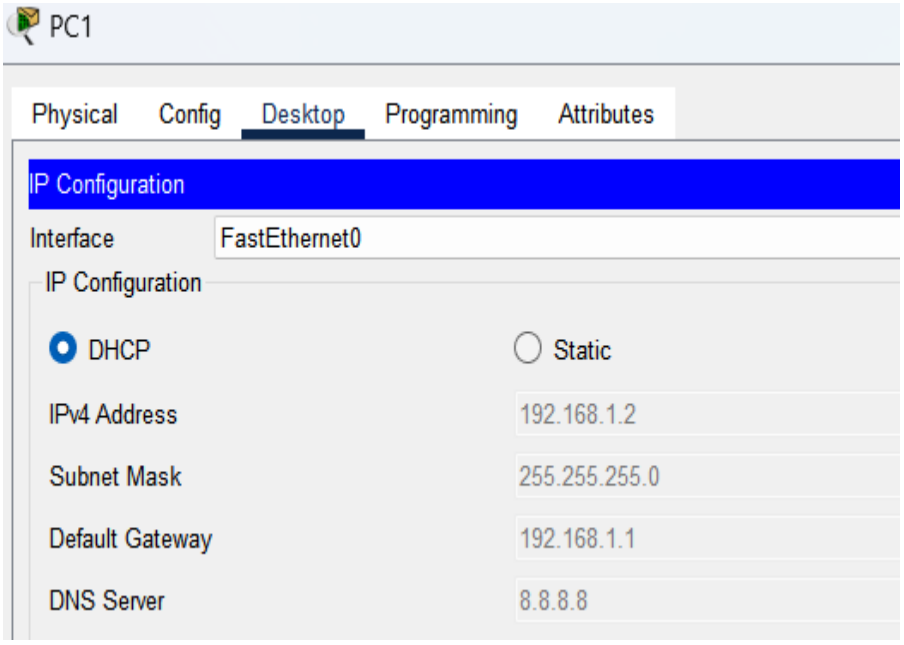


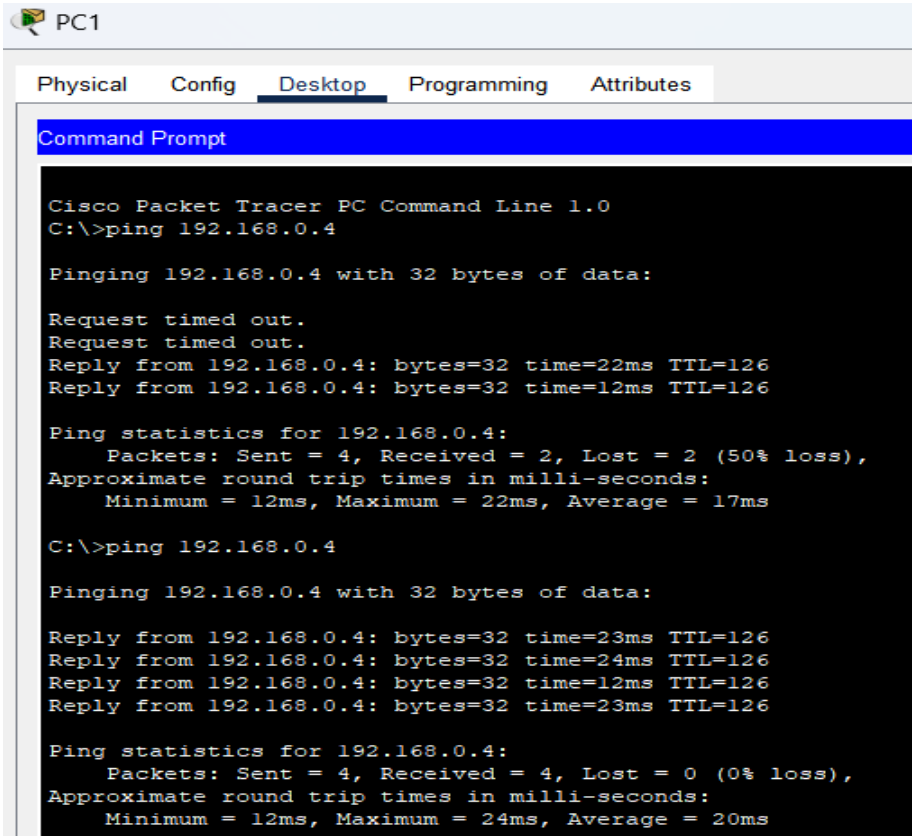




## Micro Réseau

## Topologie de 2 réseaux distincts représentant 1 ville chacun :

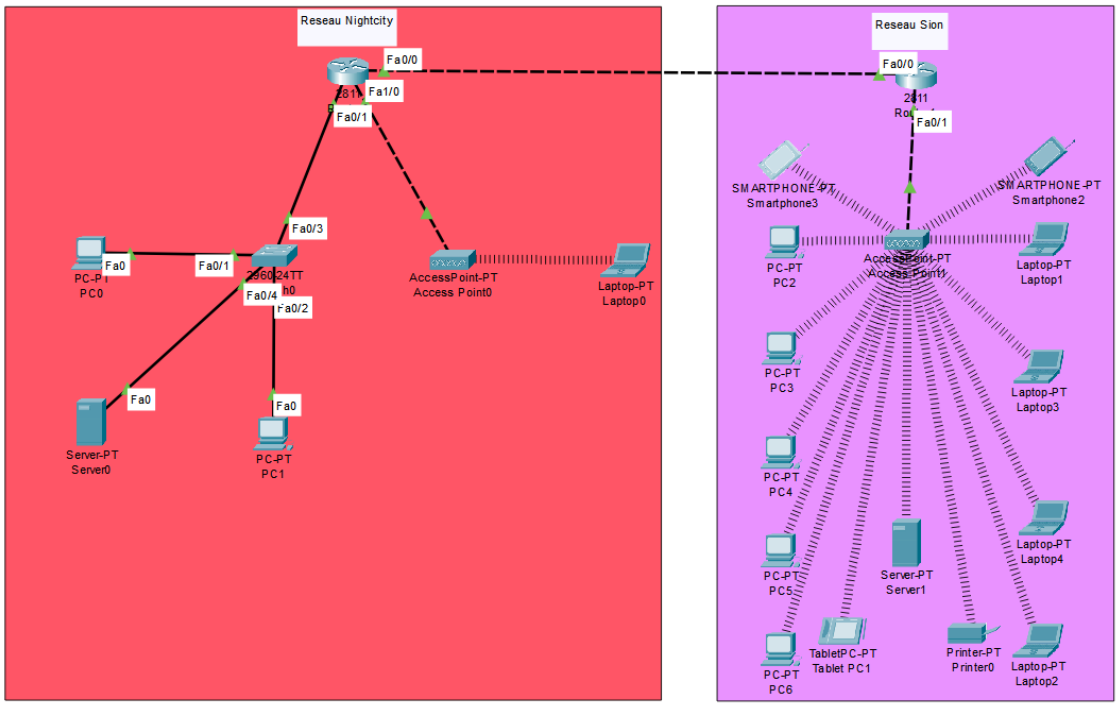

Reseau Nightcity
Fa0/0
Fa1/0
Fa0/1
Fa0/3
Fa0
Fa0/1
2960-24TT
Switch0
Fa0/2
Fa0
PC-PT
PC1
AccessPoint-PT
Access Point0
Laptop-PT
Laptop0
Reseau Sion
Fa0/0
Fa0/1
PC-PT
PC2
Access Point-PT
Laptop-PT
Laptop1
PC-PT
PC3
Laptop-PT
Laptop3
PC-PT
PC4
Laptop-PT
Laptop4
PC-PT
PC5
PC-PT
PC6
Laptop-PT
Laptop2


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




## *À vos smarts*

## *Topologie de 2 réseaux distincts avec ajout de 4 périphériques :*




Smartphone3

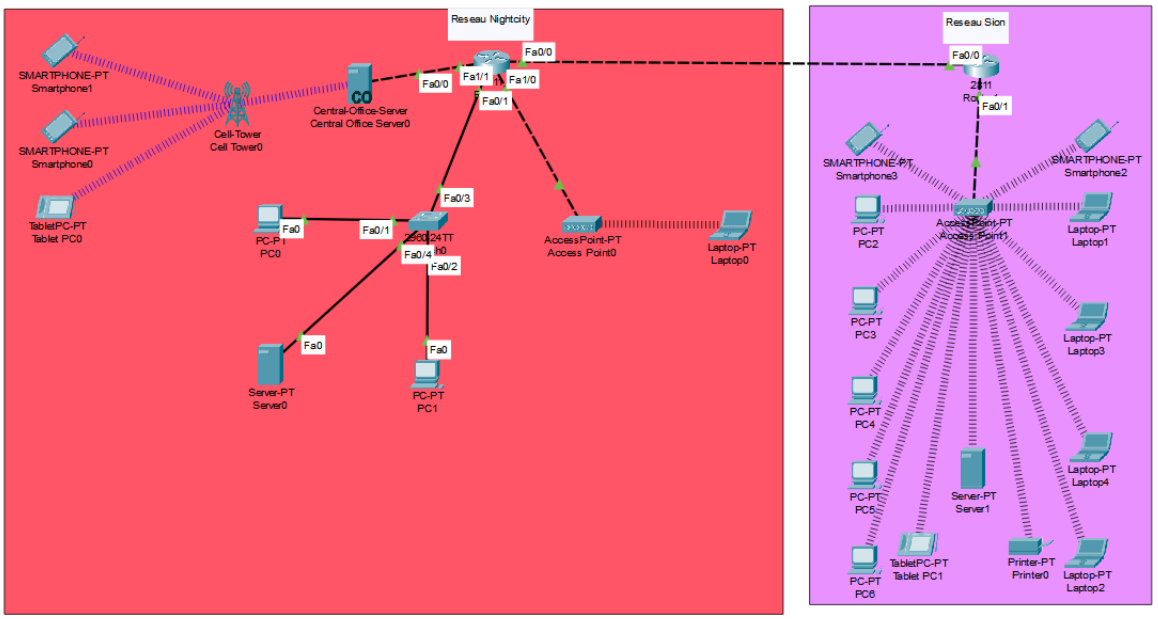
Physical | Config | Desktop | Programming | Attributes

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:\>
```

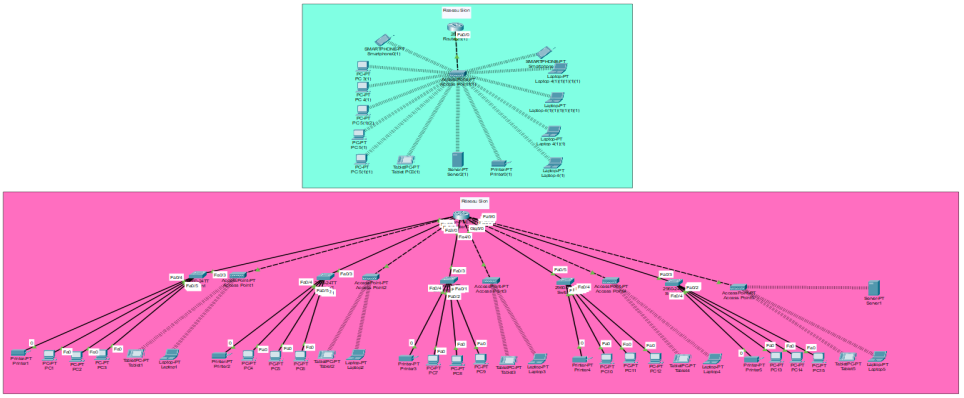
# Réseau mobile

## 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

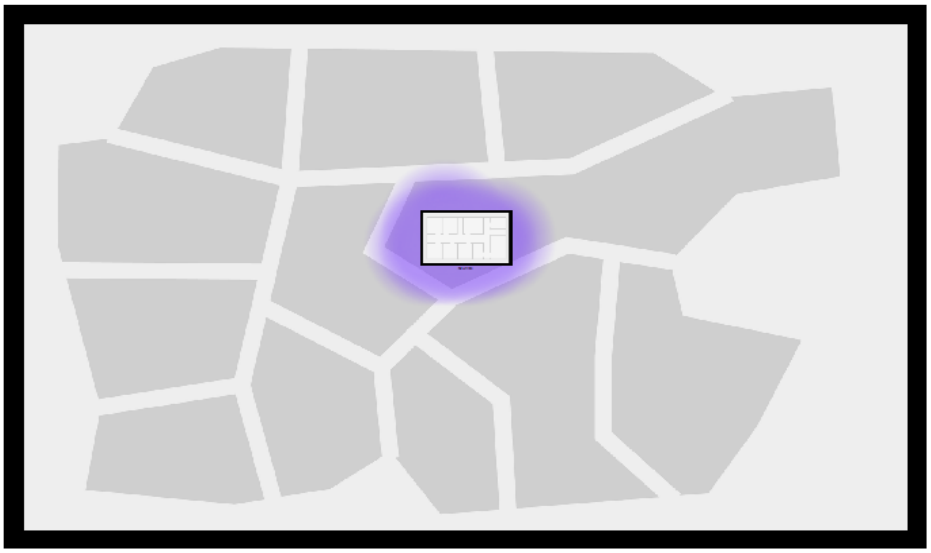
Physical Config Desktop Programming Attributes

Command Prompt

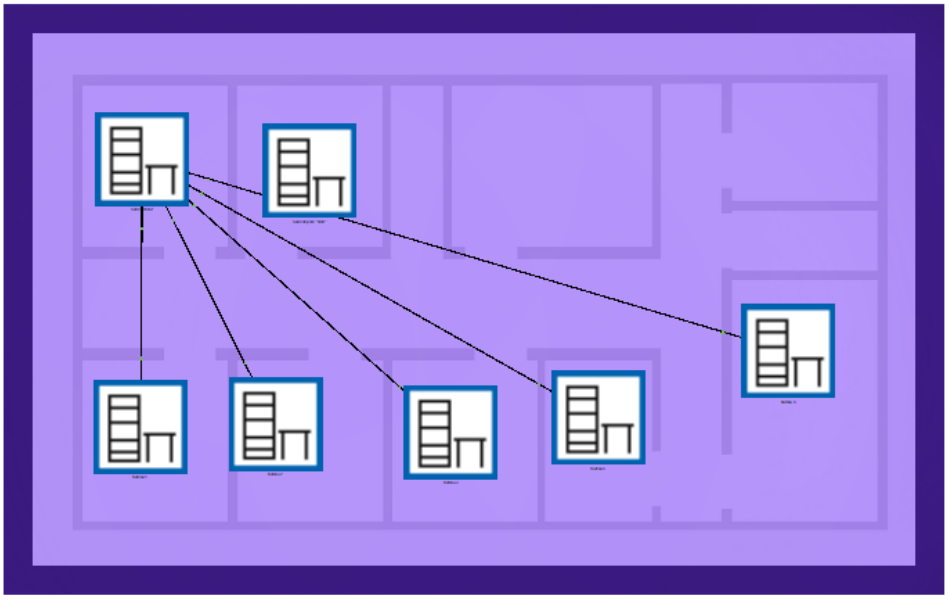
```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.11.2

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

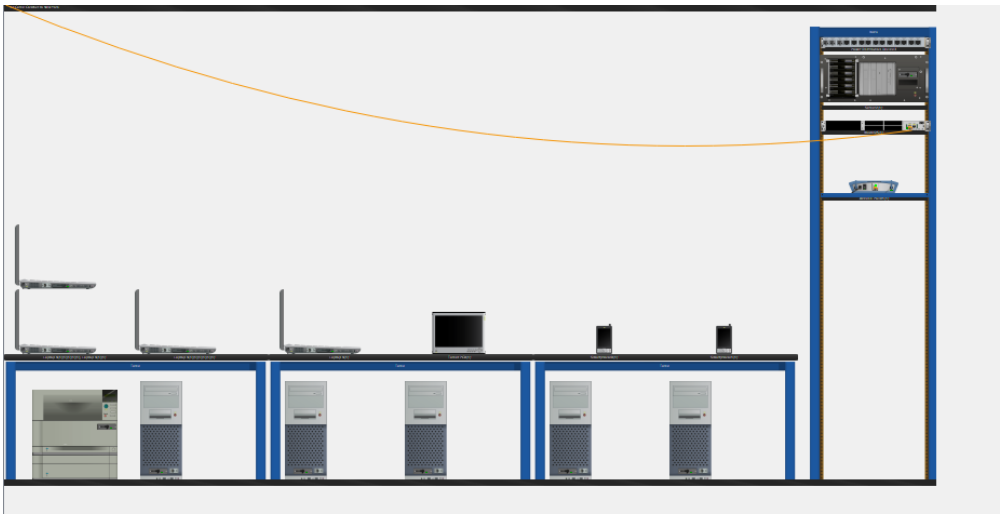


## Les différentes salles et bureaux



## Nouveau Réseau Sion (Bureau 1)

## Ancien Réseau Sion (Salle de pose)



## Salle Serveur