

BASIC

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

La différence réside principalement dans le slot de l'appareil. Les numéros de slot et de port vous permettent d'identifier de manière unique une interface spécifique sur un commutateur ou un routeur.

```
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
```




PC-192.168.1.1




PC-192.168.1.2

Switch



Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > Switch0

Port	Link	VLAN	IP Address	MAC Address
FastEthernet0/1	Up	1	--	0000.0307.7813
FastEthernet1/1	Up	1	--	0090.2B75.A090
FastEthernet2/1	Up	1	--	0090.2189.7791
FastEthernet3/1	Up	1	--	0007.8C0C.8391
FastEthernet4/1	Down	1	--	0001.6421.0A20
Serial0/0/0	Down	1	--	0080.8P0C.583E
GigabitEthernet4/1	Down	1	--	0007.8C18.291E
GigabitEthernet7/1	Down	1	--	0001.C76C.A35A
Ethernet8/1	Up	1	--	0030.A304.1C86
Ethernet9/1	Down	1	--	0080.F70D.5997
Vlan1	Down	1	<not set>	0001.43C3.8192




Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > WirelessWifi

Port	Link
Port 0	Up
Port 1	Up

Switch

Switch Wifi

Physical Location: Intercity > Home City > Corporate Office > Laptop-192.168.1.3

Port	Link	IP Address	IPv6 Address	MAC Address
Wireless0	Up	192.168.1.3/24	<not set>	000B.8E41.E27E
Bluetooth	Down	<not set>	<not set>	0000.0C6E.06BA

Gateway: <not set>
DNS Server: <not set>
Line Number: <not set>

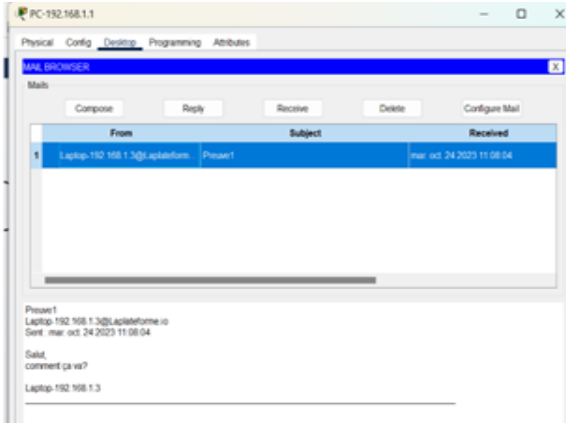
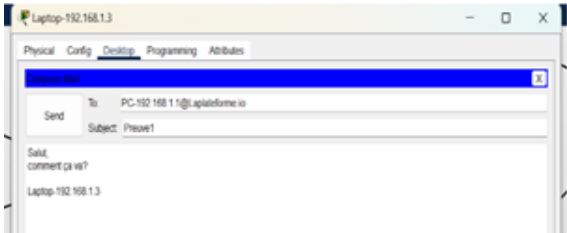
Wireless Best Data Rate: 24 Mbps
Wireless Signal Strength: 48%

réseau contenant des ordinateurs,
un Switch, un Switch Wifi et un
Laptop

Laptop-192.168.1.3

Idoine

Complex PDU



PDU

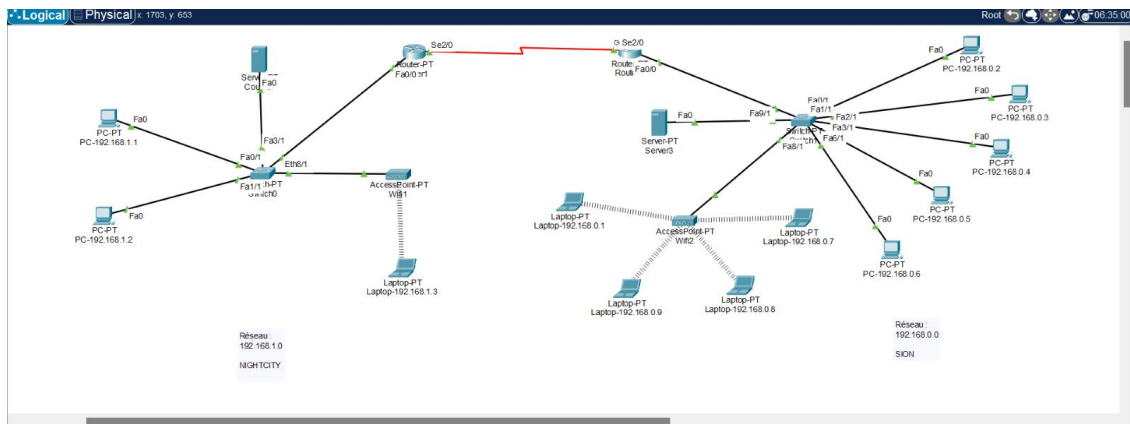
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC-1...	PC-192.1...	ICMP		0.000	N	0	(edit)	(delete)
	Successful	PC-1...	Laptop-19...	ICMP		0.000	N	1	(edit)	(delete)
	Successful	Lapto...	PC-192.1...	ICMP		0.000	N	2	(edit)	(delete)
	Successful	Lapto...	PC-192.1...	ICMP		0.000	N	3	(edit)	(delete)

Serveur :



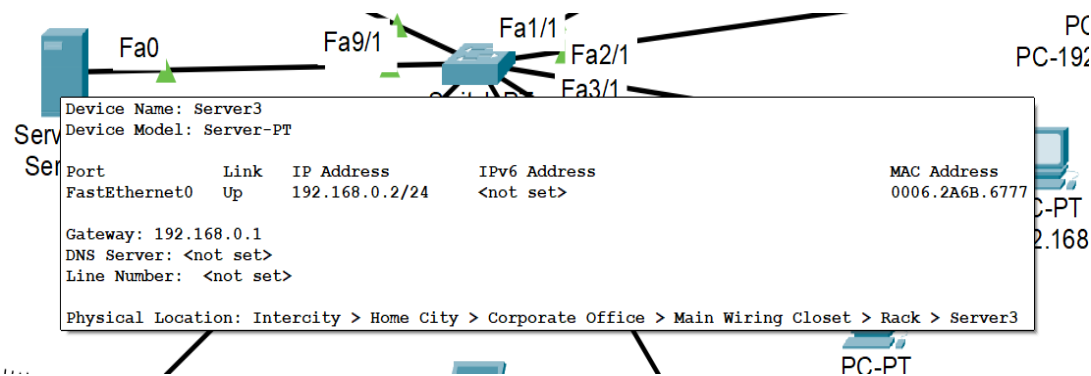
Multi-Réseau

Deux routeurs représentant deux villes : Nightcity et Sion.



Micro-Réseau

Serveur central permettant l'adressage automatique des machines grâce à un DHCP :



Server3

Physical Config **Services** Desktop Programming Attributes

SERVICES

- HTTP
- DHCP**
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP
- IoT
- VM Management
- Radius EAP

DHCP

Interface: FastEthernet0 Service: ☒ On ☐ Off

Pool Name: serverPool

Default Gateway: 192.168.0.1

DNS Server: 0.0.0.0

Start IP Address: 192.168.0.10

Subnet Mask: 255.255.255.0

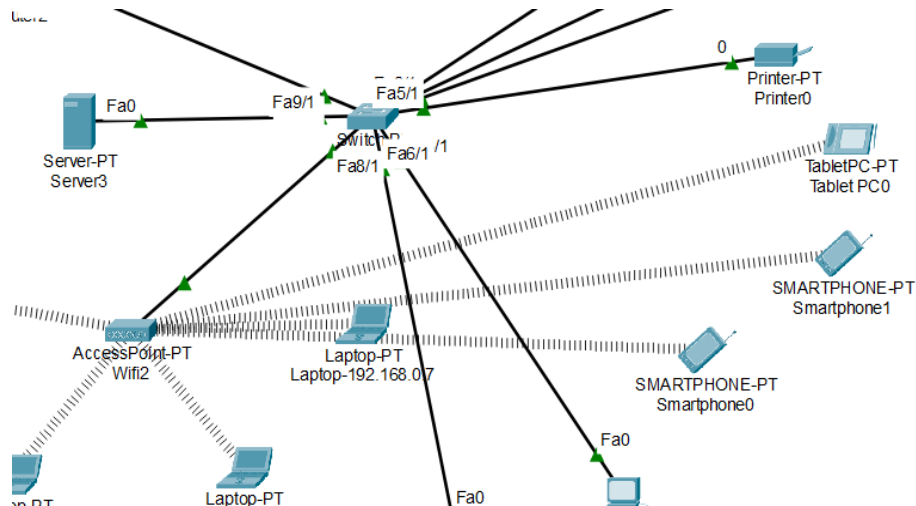
Maximum Number of Users: 246

TFTP Server: 0.0.0.0

WLC Address: 0.0.0.0

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	192.168.0.1	0.0.0.0	192.168.0.10	255.255.255.0	246	0.0.0.0	0.0.0.0

À vos Smarts



Printer0

Physical Config Attributes

GLOBAL

Settings

INTERFACE

FastEthernet0

FastEthernet0

Port Status ☐ 100 Mbps ☐ 10 Mbps ☒ On

Bandwidth ☐ Half Duplex ☒ Full Duplex ☒ Auto

Duplex

MAC Address 0009.7C63.4E75

IP Configuration

☐ DHCP

☒ Static

IPv4 Address 192.168.0.25

Subnet Mask 255.255.255.0

IPv6 Configuration

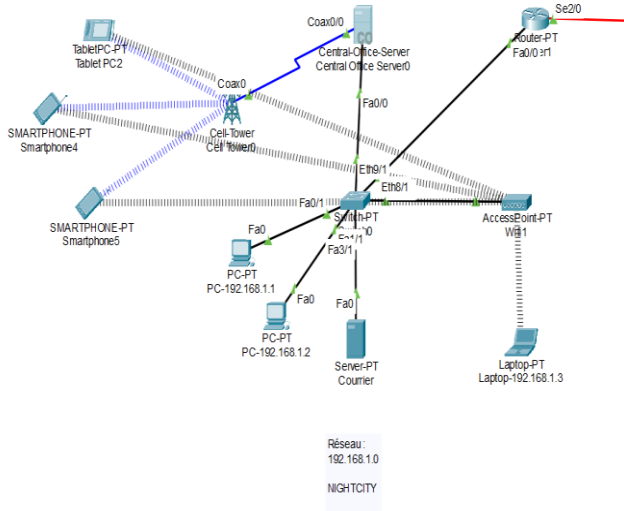
☐ Automatic

☒ Static

IPv6 Address

Link Local Address: FE80::209:7CFF:FE63:4E75

Réseau mobile



TabletPC

Central Office Server

Router PT Exploiter

Router

Tablet Device Name: Tablet PC2
Device Model: TabletPC-PT

Port	Link	IP Address	IPv6 Address	MAC Address
Wireless0	Up	192.168.1.13/24	<not set>	0001.96C7.3C2E
3G/4G Cell1	Up	172.16.1.106/24	<not set>	0090.21B7.0526
Bluetooth	Down	<not set>	<not set>	000A.F370.B7D3

Gateway: 192.168.1.1
DNS Server: 0.0.0.0
Line Number: <not set>

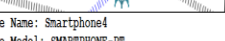
Cellular Signal Strength: 100%

Wireless Best Data Rate: 24 Mbps
Wireless Signal Strength: 47%

Physical Location: Intercity > Home City > Corporate Office > Tablet PC2

PC-192.168.12

Réseau de NightCity avec un "Cell-Tower" et un "Central Office Server"



SMARTPHONE

Device Name: Smartphone4

Device Model: SMARTPHONE-PT

Port	Link	IP Address	IPv6 Address	MAC Address
Wireless0	Up	192.168.1.16/24	<not set>	0001.C989.3743
3G/4G Cell1	Up	172.16.1.107/24	<not set>	0060.3E6A.E572
Bluetooth	Down	<not set>	<not set>	0000.0C0A.AD39

Gateway: 192.168.1.1

DNS Server: 0.0.0.0

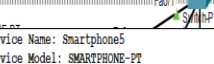
Line Number: <not set>

Cellular Signal Strength: 100%

Wireless Best Data Rate: 24 Mbps

Wireless Signal Strength: 52%

Physical Location: Intercity > Home City > Corporate Office > Smartphone4



Device Name: Smartphone5
Device Model: SMARTPHONE-PT

Port	Link	IP Address	IPv6 Address	MAC Address
Wireless0	Up	192.168.1.17/24	<not set>	00E0.B0ED.9C10
3G/4G Cell1	Up	172.16.1.108/24	<not set>	0030.A349.D47C
Bluetooth	Down	<not set>	<not set>	000B.BEDE.D822

Gateway: 192.168.1.1
DNS Server: 0.0.0.0
Line Number: <not set>

Cellular Signal Strength: 100%

Wireless Best Data Rate: 54 Mbps
Wireless Signal Strength: 58%

Physical Location: Intercity > Home City > Corporate Office > Smartphone5

Architecture Physique

