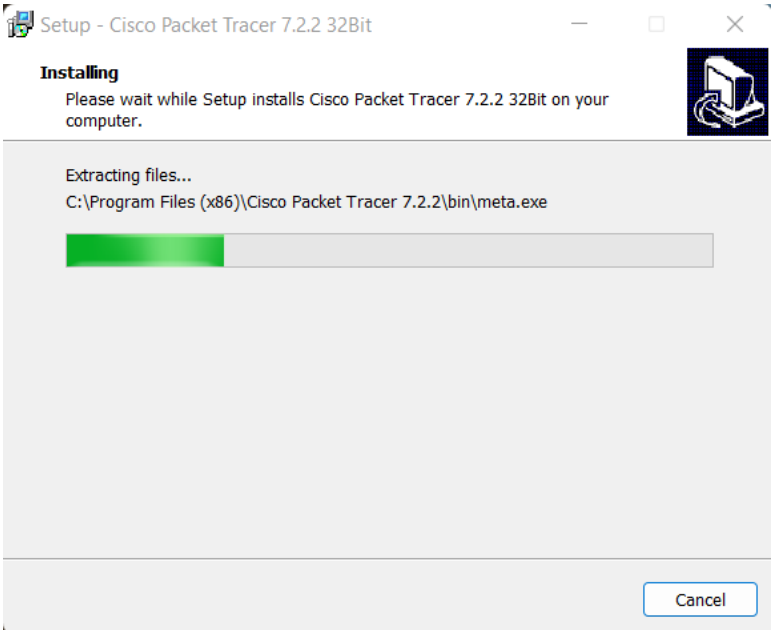
TAMIRO Mehdi

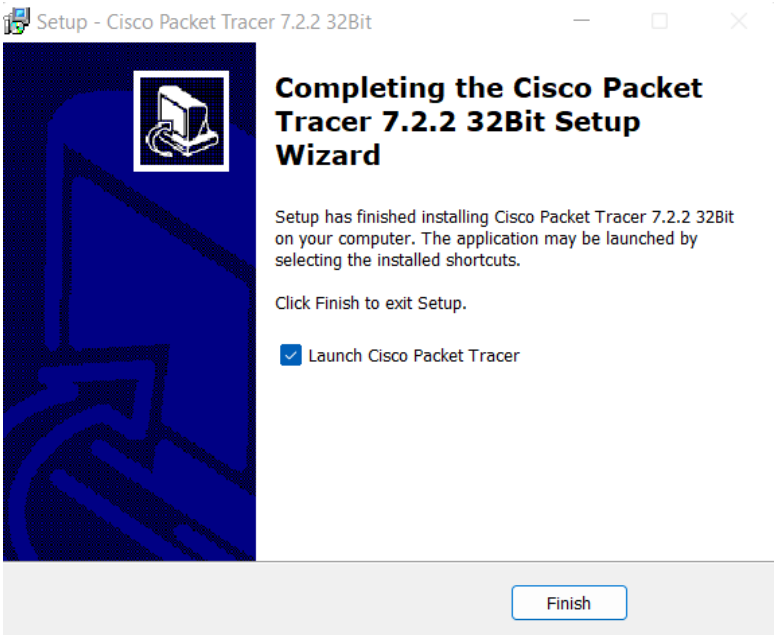
Table des matières

Installation de Cisco Packet Tracer

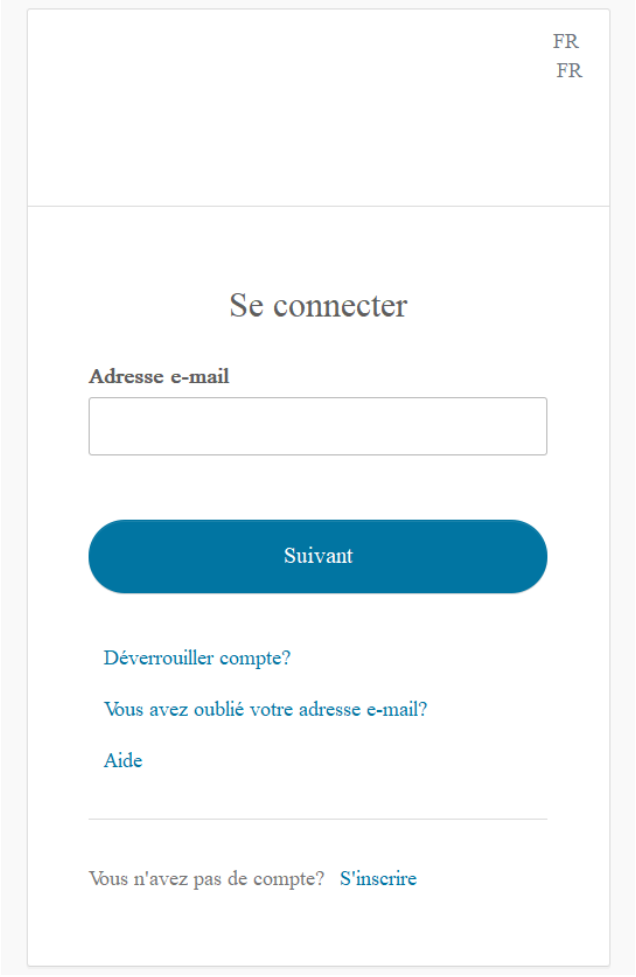
Il faut commencer par télécharger le logiciel Cisco packet tracer.

Ensuite lancer sur l'exécutable, ensuite cliquer sur suivant puis sur installer



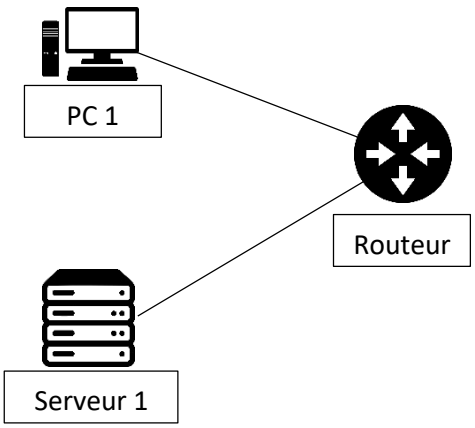


Ensuite connecter vous ou créer un compte



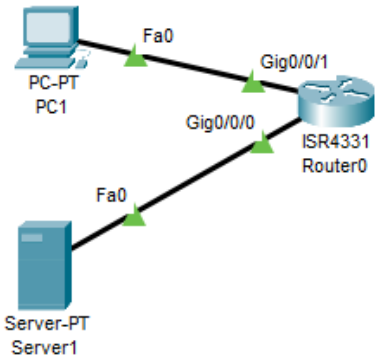
Mission 1 : Création d'un réseau pour Taco

Concevoir Le réseau de Taco pour son entreprise sur papier avec son adressage IP :

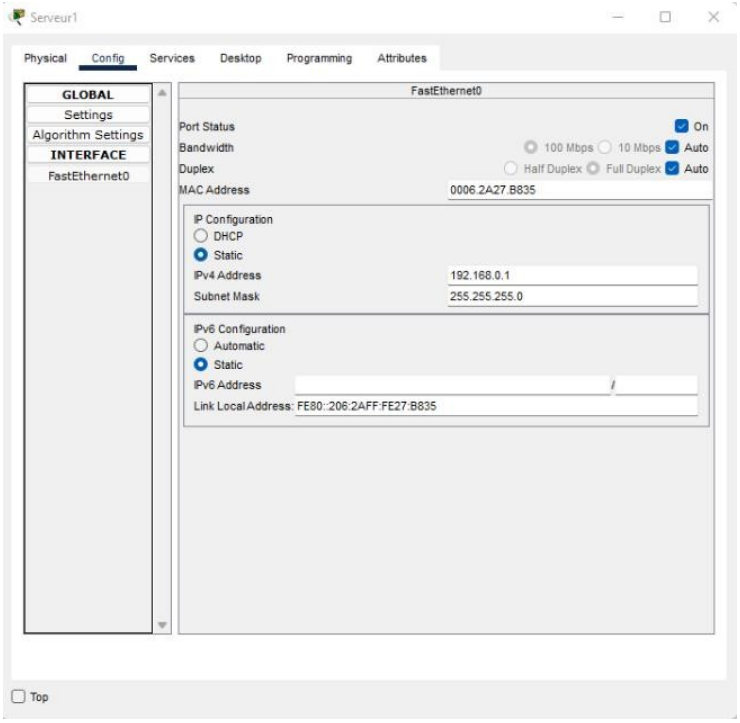


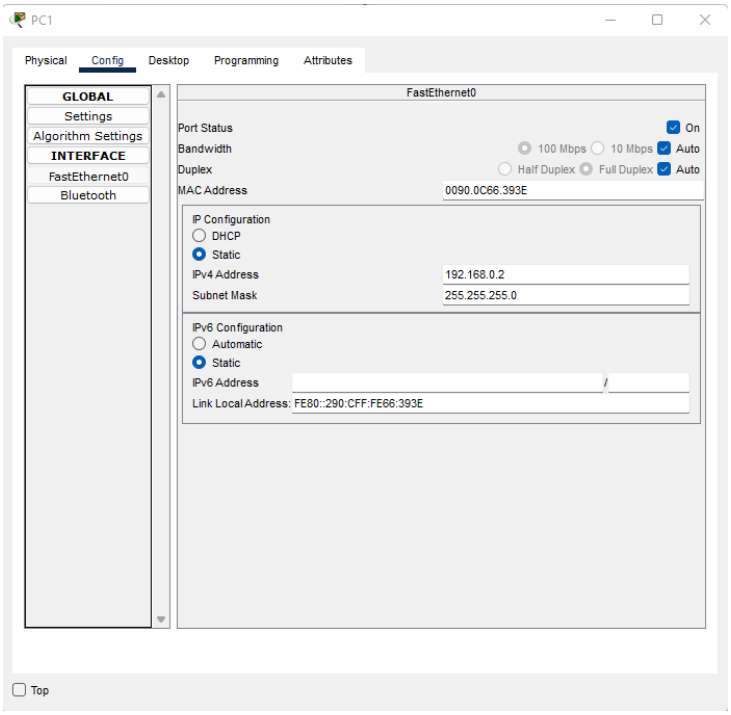
Nom	Port	Adresse IP
Routeur		192.168.0.254
PC 1	G 0/0/1	192.168.0.2
Serveur 1	G 0/0/0	192.168.0.1

Puis Créer le réseau sur Cisco Packet Tracer :



- Paramétrage IP des machines

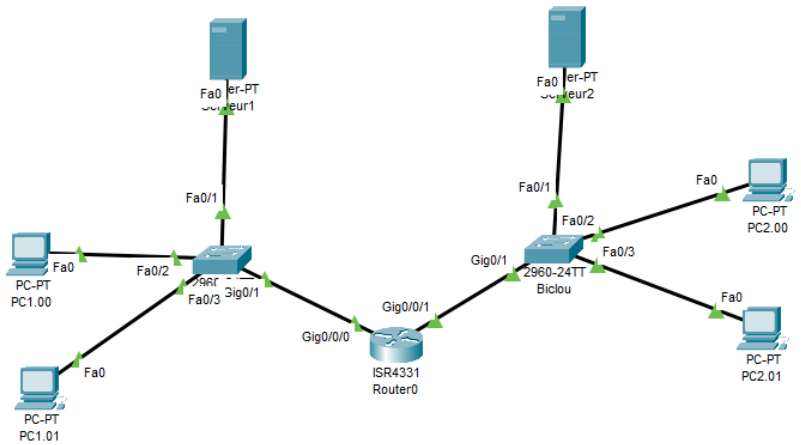




Mission 2 : Ajout d'un switch et de l 'entreprise Biclou

On commence par ajouter un switch au réseau de Taco puis on réplique la même chose du coté de de Biclou.

- Plan Réseau



- Table d’adressage

Je fais une nouvelle table d’adressage des IP :

Nom	Port	Adresse IP
Routeur	G 0/1	192.168.0.254
Taco	G 0/0/0	
Serveur1	F 0/1	192.168.0.1
PC 1.00	F 0/2	192.168.0.2
PC 1.01	F 0/3	192.168.0.3

Réseau Taco

Nom	Port	Adresse IP
Routeur	G 0/1	192.168.100.254
Biclou	G 0/0/1	
Serveur1	F 0/1	192.168.100.1
PC 2.00	F 0/2	192.168.100.2
PC 2.01	F 0/3	192.168.100.3

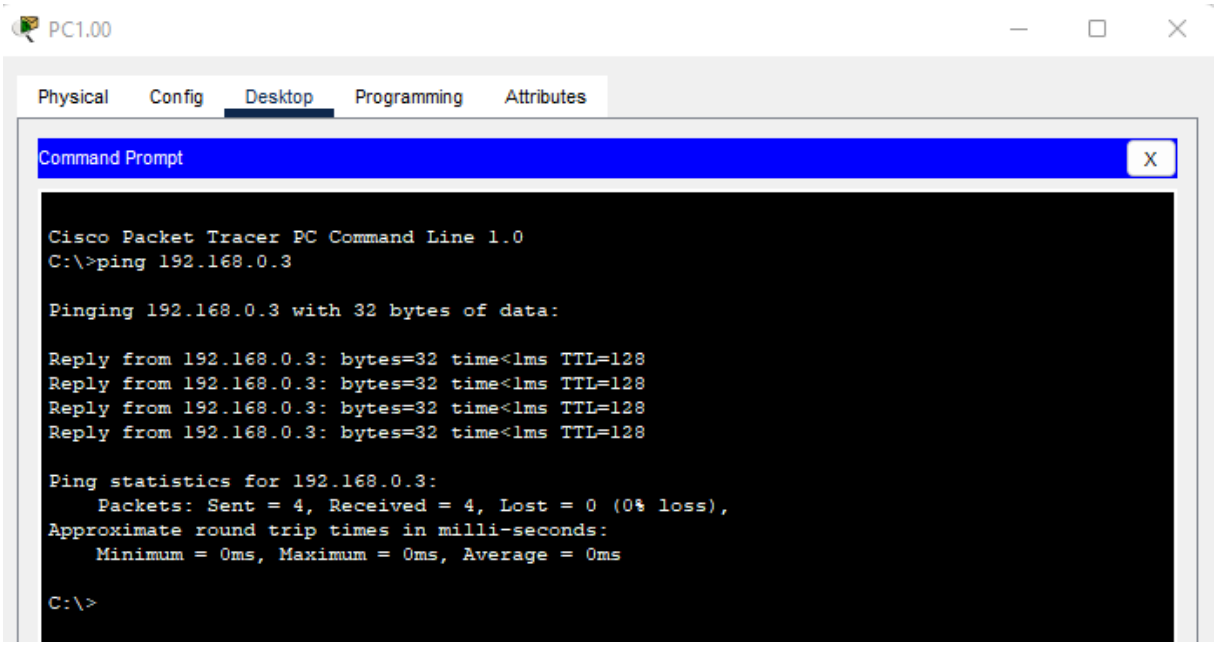
Réseau Biclou

Mission 3 : Test et Routage

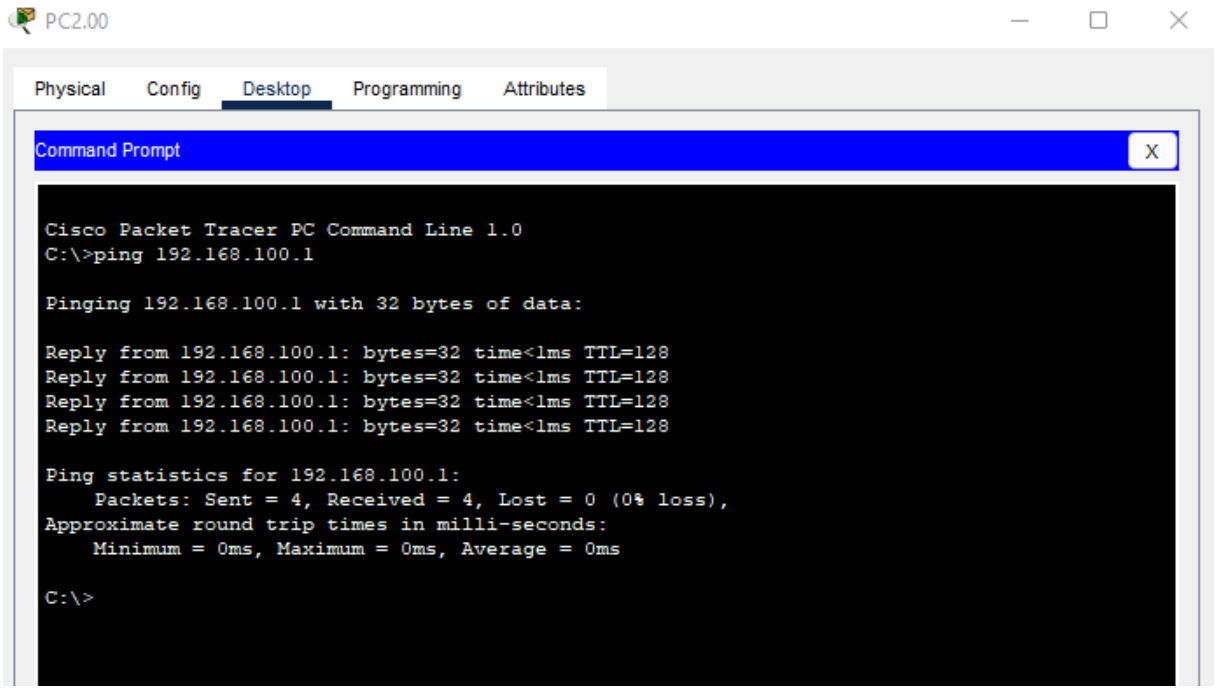
- Test réseau

On commence par tester le réseau des deux coté

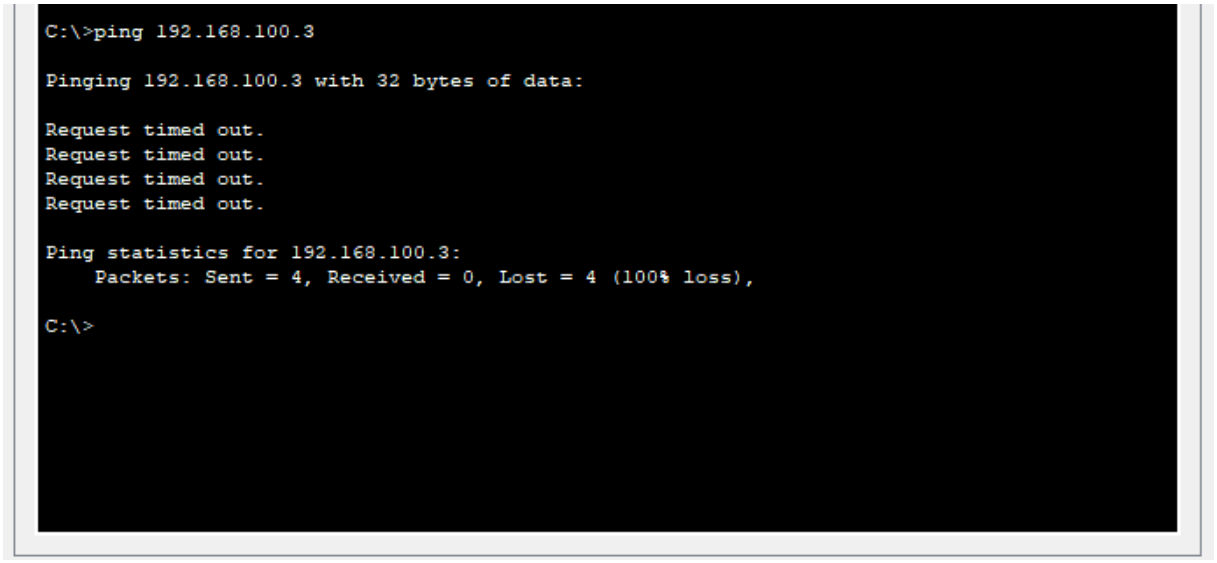
Taco ping PC 1.00 et PC 1.01 :



Biclou ping PC 2.00 et Serveur2 :



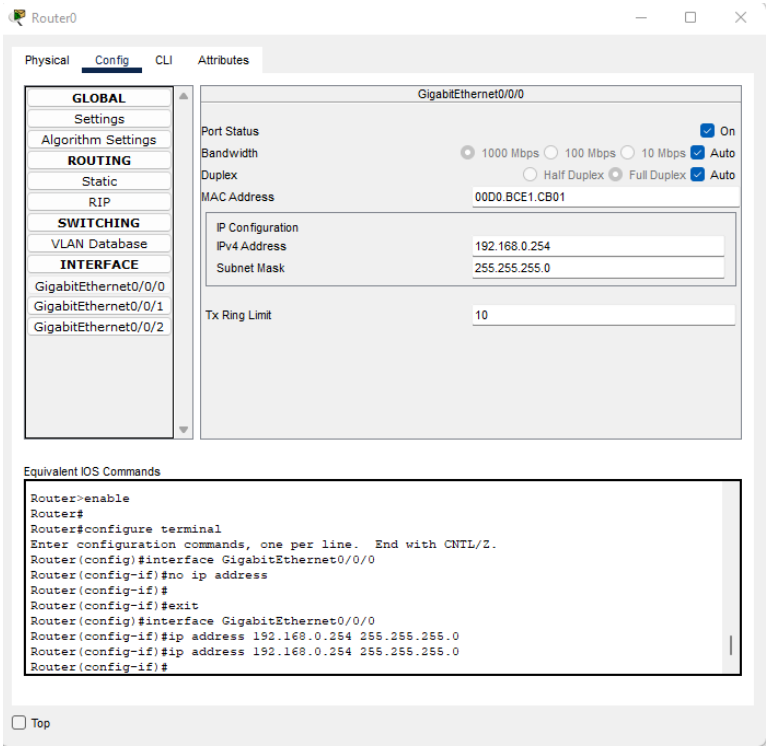
Vérifier que Taco ne peut pas accéder au réseau biclou :



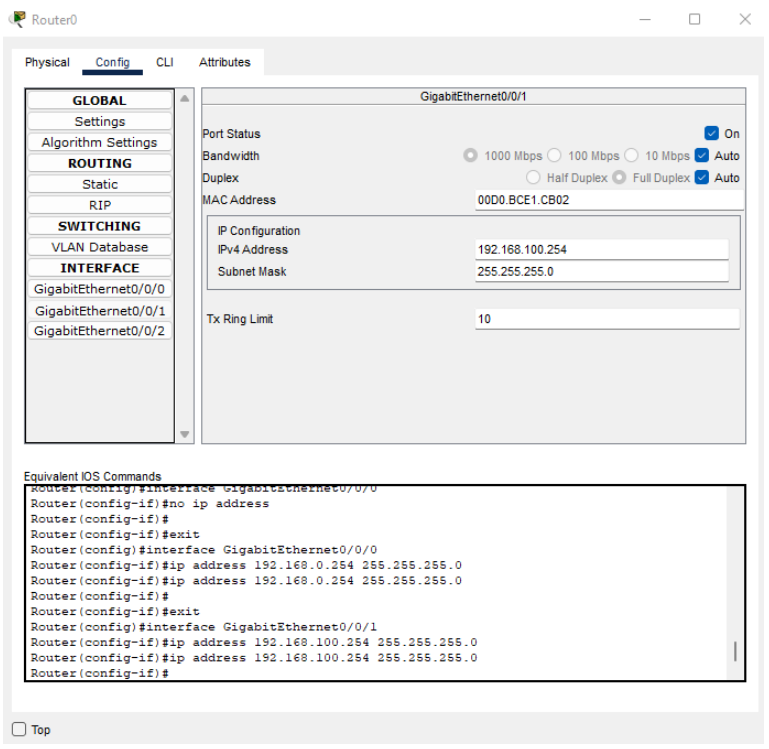
- Routage du réseau

Le routage permettra aux deux réseaux de communiquer

Configuration routeur :

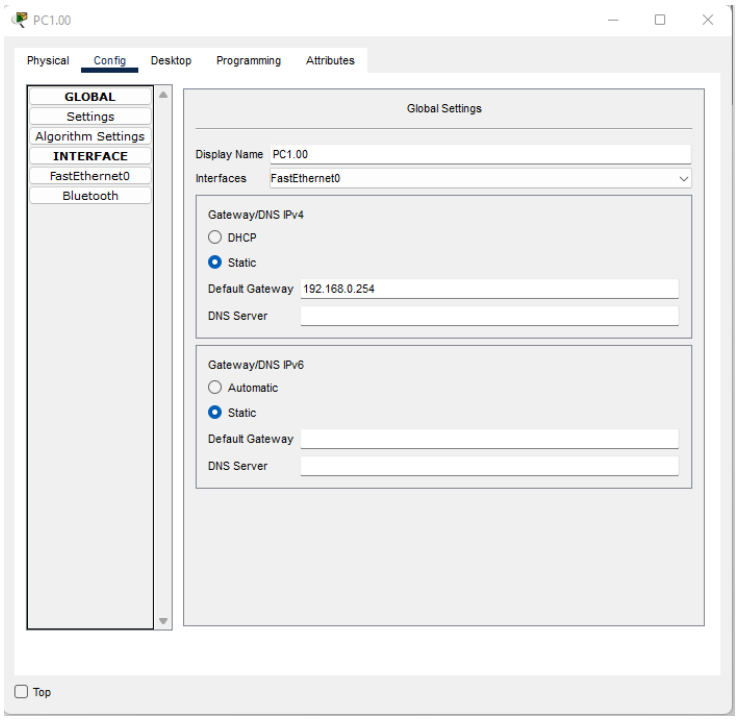


Réseau Taco

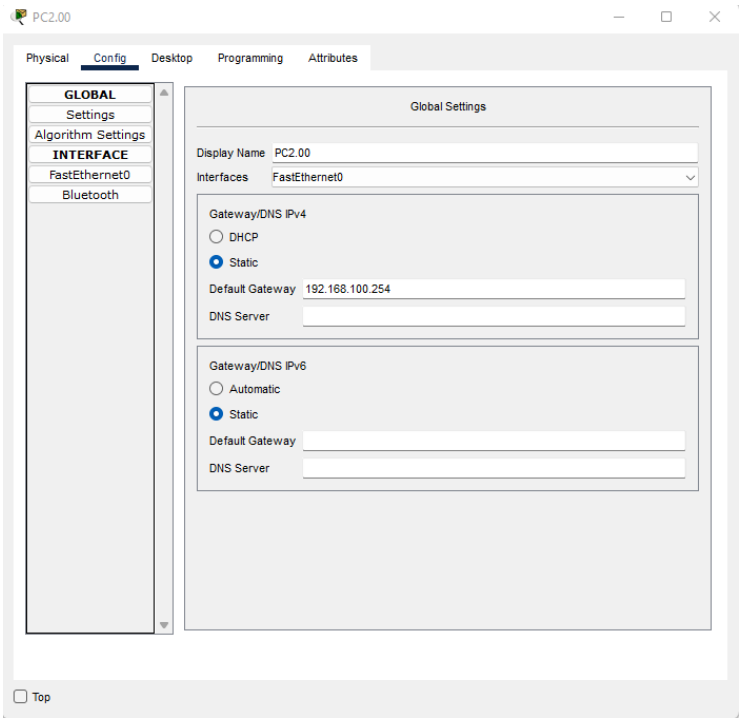


Réseau Biclou

Configuration passerelle :



Réseau Taco



Réseau Biclou

Vérification du routage ping depuis PC 1.00 vers PC 2.01 :

```
C:\>ping 192.168.100.3

Pinging 192.168.100.3 with 32 bytes of data:

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

Ping statistics for 192.168.100.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 192.168.100.3

Pinging 192.168.100.3 with 32 bytes of data:

Reply from 192.168.100.3: bytes=32 time<1ms TTL=127
Reply from 192.168.100.3: bytes=32 time<1ms TTL=127
Reply from 192.168.100.3: bytes=32 time=1ms TTL=127
Reply from 192.168.100.3: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.100.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

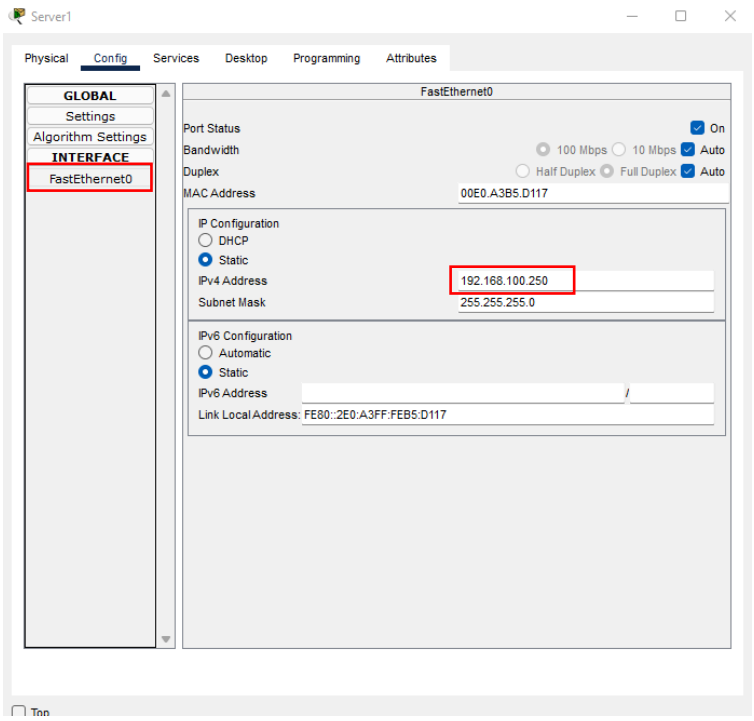
Avant paramétrage routeur

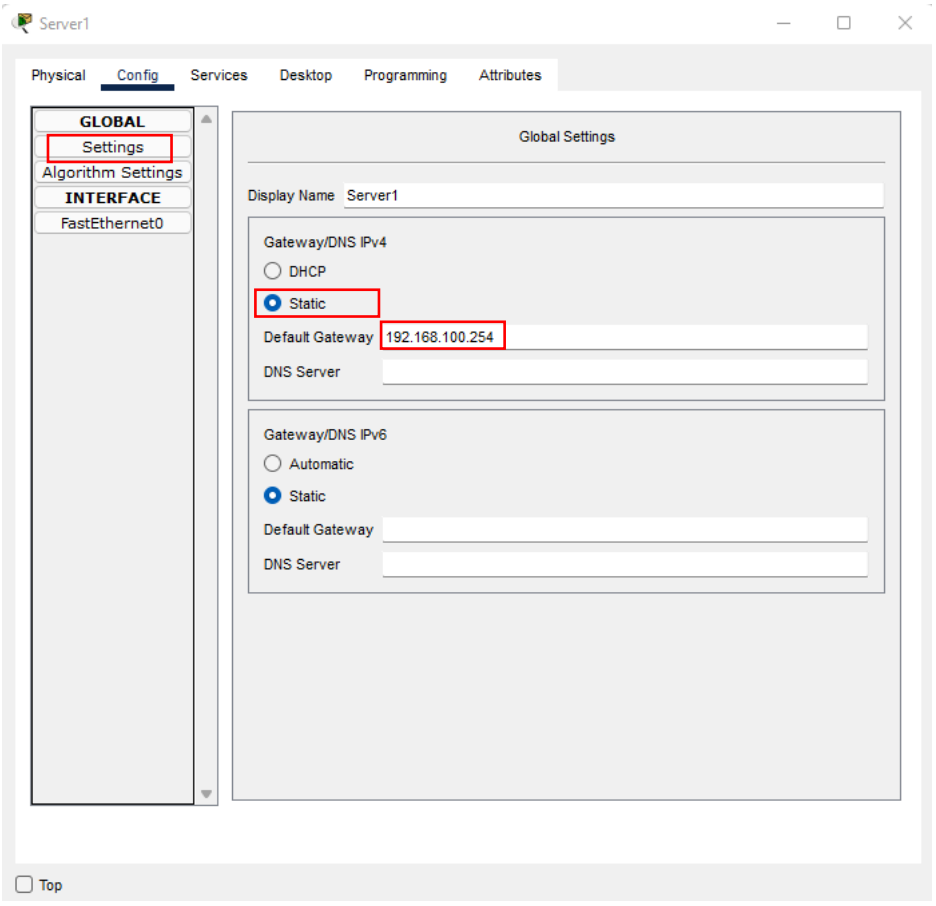
Après paramétrage routeur

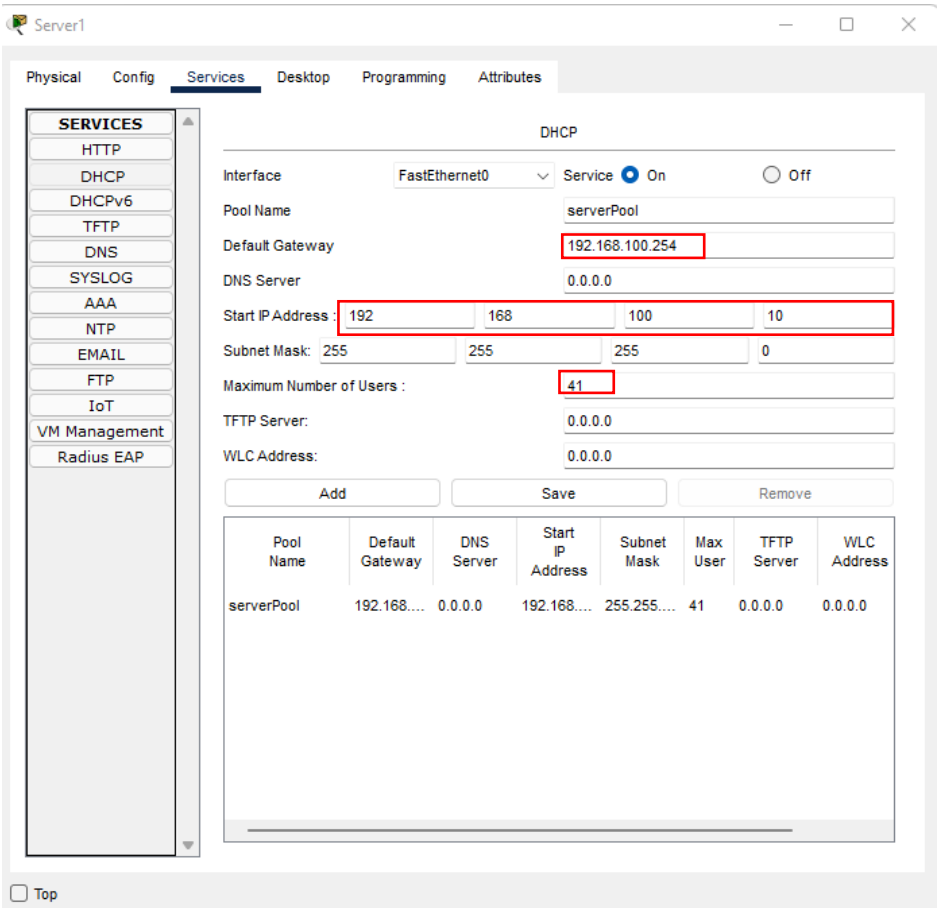
Mission 4 : Création d'un serveur DHCP et ajout d'un point d'accès

- Création et paramétrage du DHCP

Configurer serveur un en IP Fixe 192.168.100.250, de la passerelle en 192.168.100.254 ensuite ajout de la fonction DHCP et configuration de la plage IP de 10 à 50.

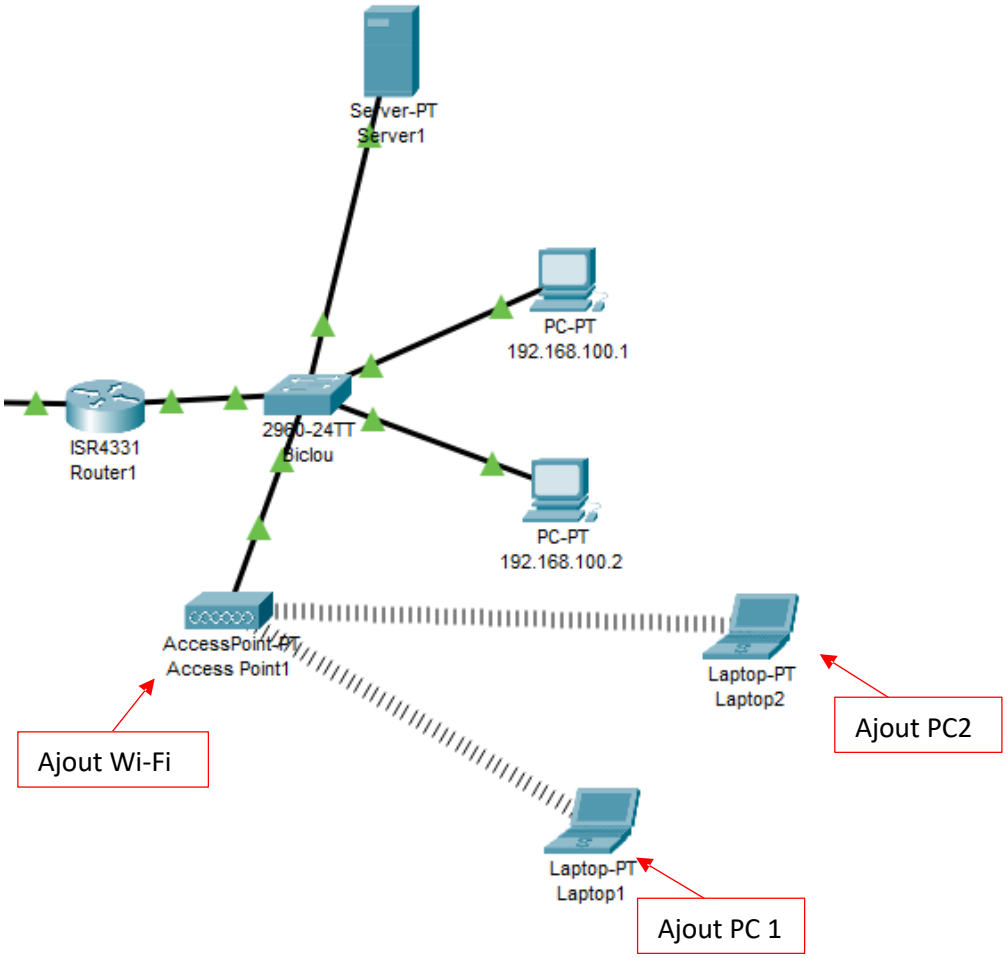



Server1
Physical
Config
Services
Desktop
Programming
Attributes
GLOBAL
Settings
Algorithm Settings
INTERFACE
FastEthernet0
Global Settings
Display Name
Server1
Gateway/DNS IPv4
DHCP
Static
Default Gateway
192.168.100.254
DNS Server
Gateway/DNS IPv6
Automatic
Static
Default Gateway
DNS Server
Top

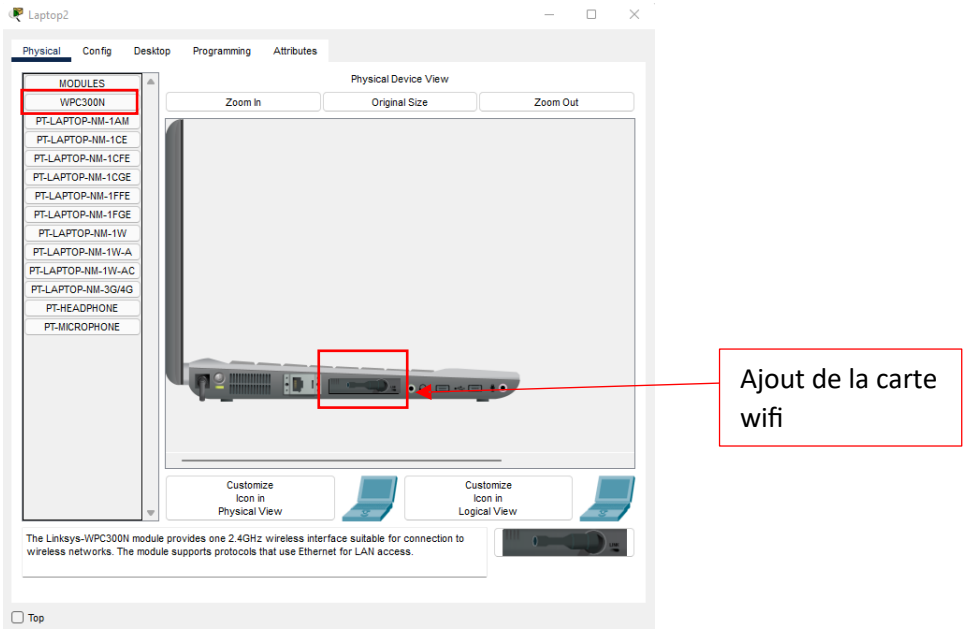

Server1
Physical
Config
Services
Desktop
Programming
Attributes
SERVICES
HTTP
DHCP
DHCPv6
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP
IoT
VM Management
Radius EAP
DHCP
Interface
FastEthernet0
Service
On
Off
Pool Name
serverPool
Default Gateway
192.168.100.254
DNS Server
0.0.0.0
Start IP Address :
192
168
100
10
Subnet Mask:
255
255
255
0
Maximum Number of Users :
41
TFTP Server:
0.0.0.0
WLC Address:
0.0.0.0
Add
Save
Remove
Pool Name
Default Gateway
DNS Server
Start IP Address
Subnet Mask
Max User
TFTP Server
WLC Address
serverPool
192.168....
0.0.0.0
192.168....
255.255....
41
0.0.0.0
0.0.0.0
Top

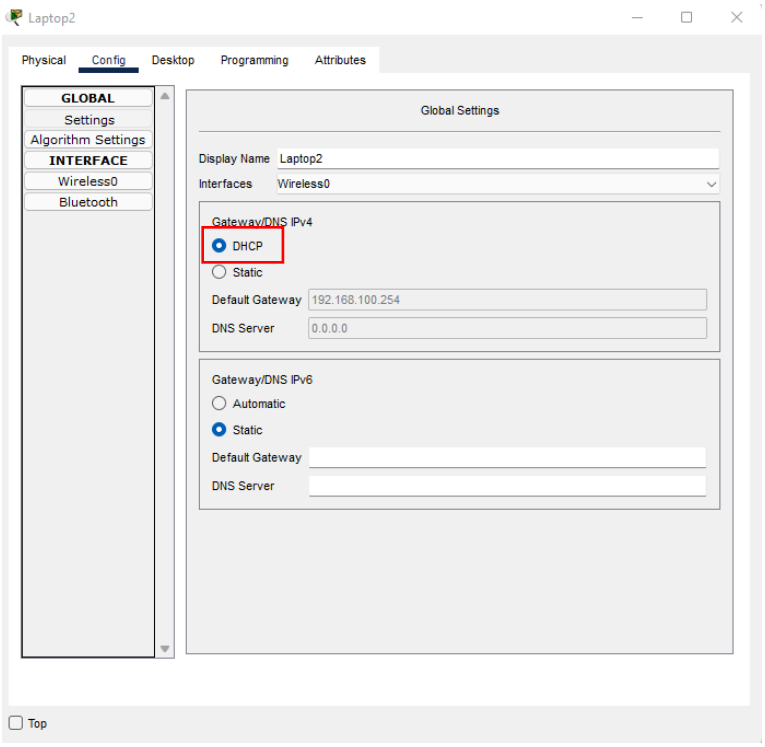
- Ajout d’un point d’accès sans fil pour pc portable

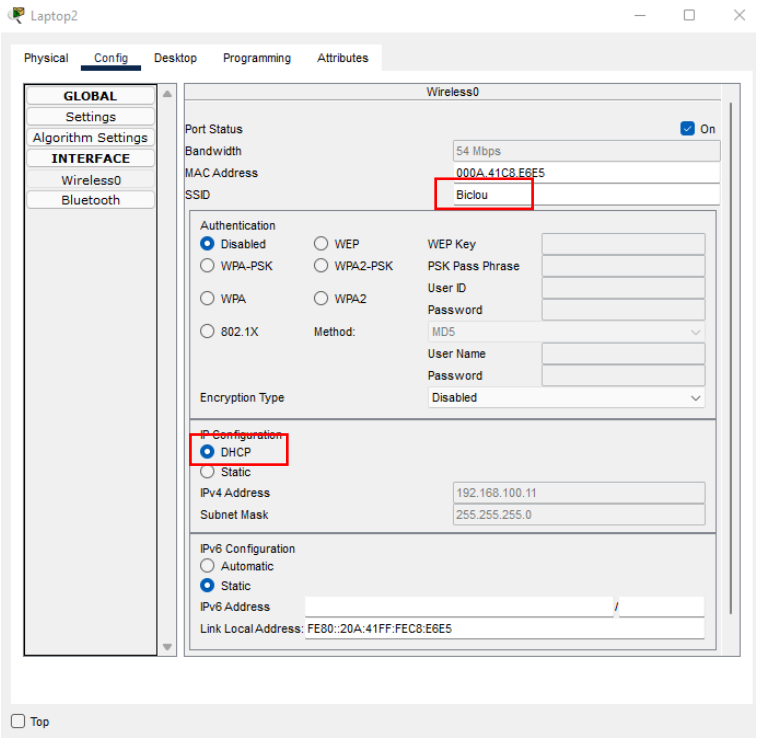
Rajout d’un routeur pour le wifi puis de deux pc portables suivi de leur configuration.



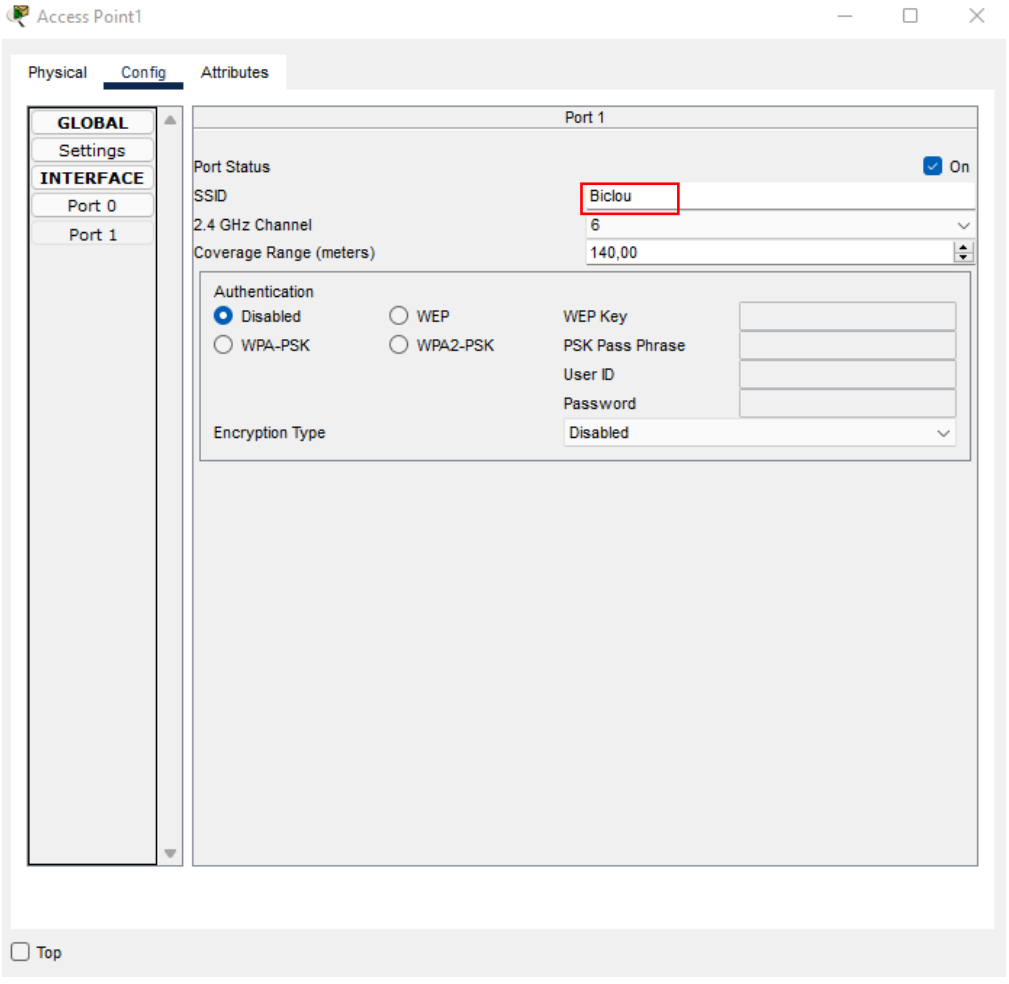
- Configuration des pcs portable



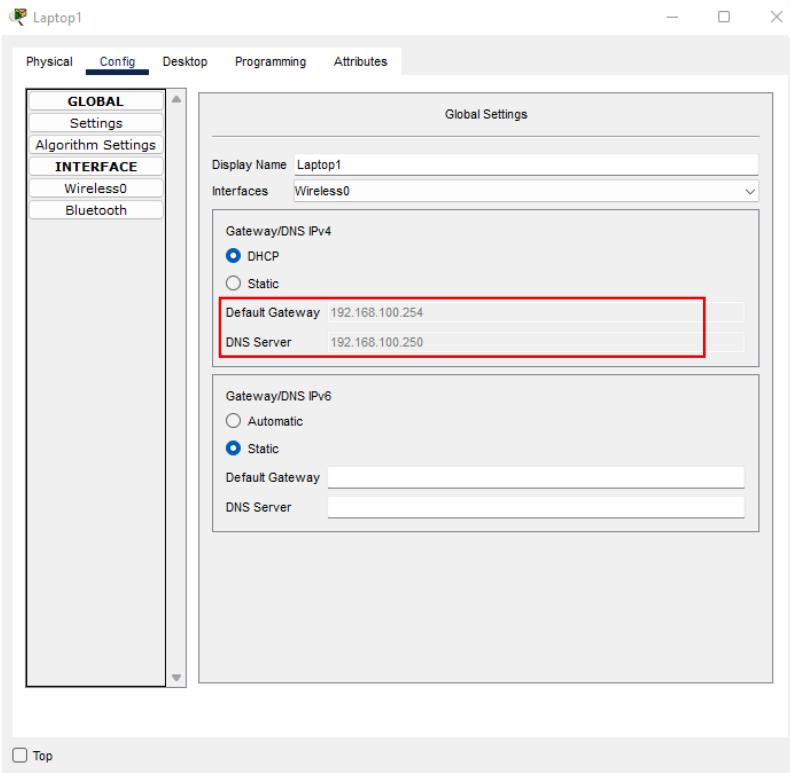


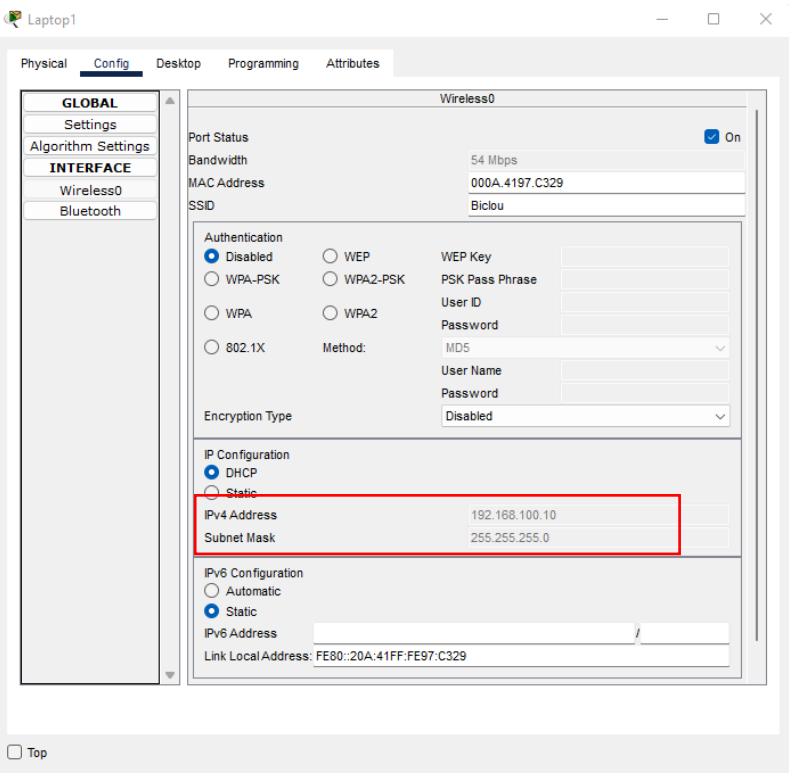


- Configuration du point d'accès sans fil

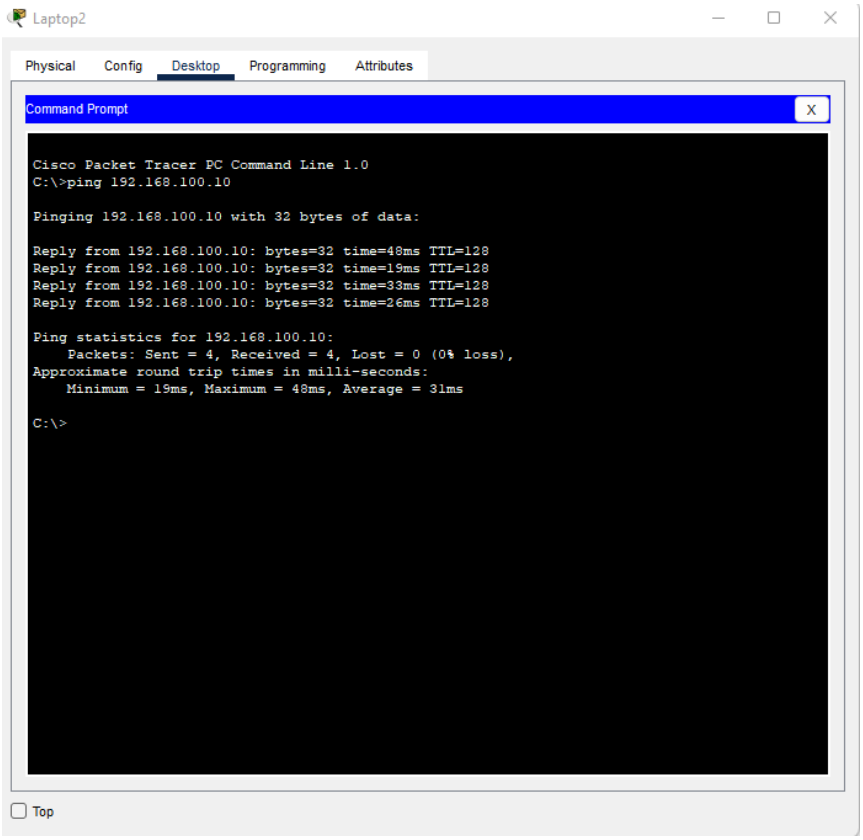


- Test du wifi



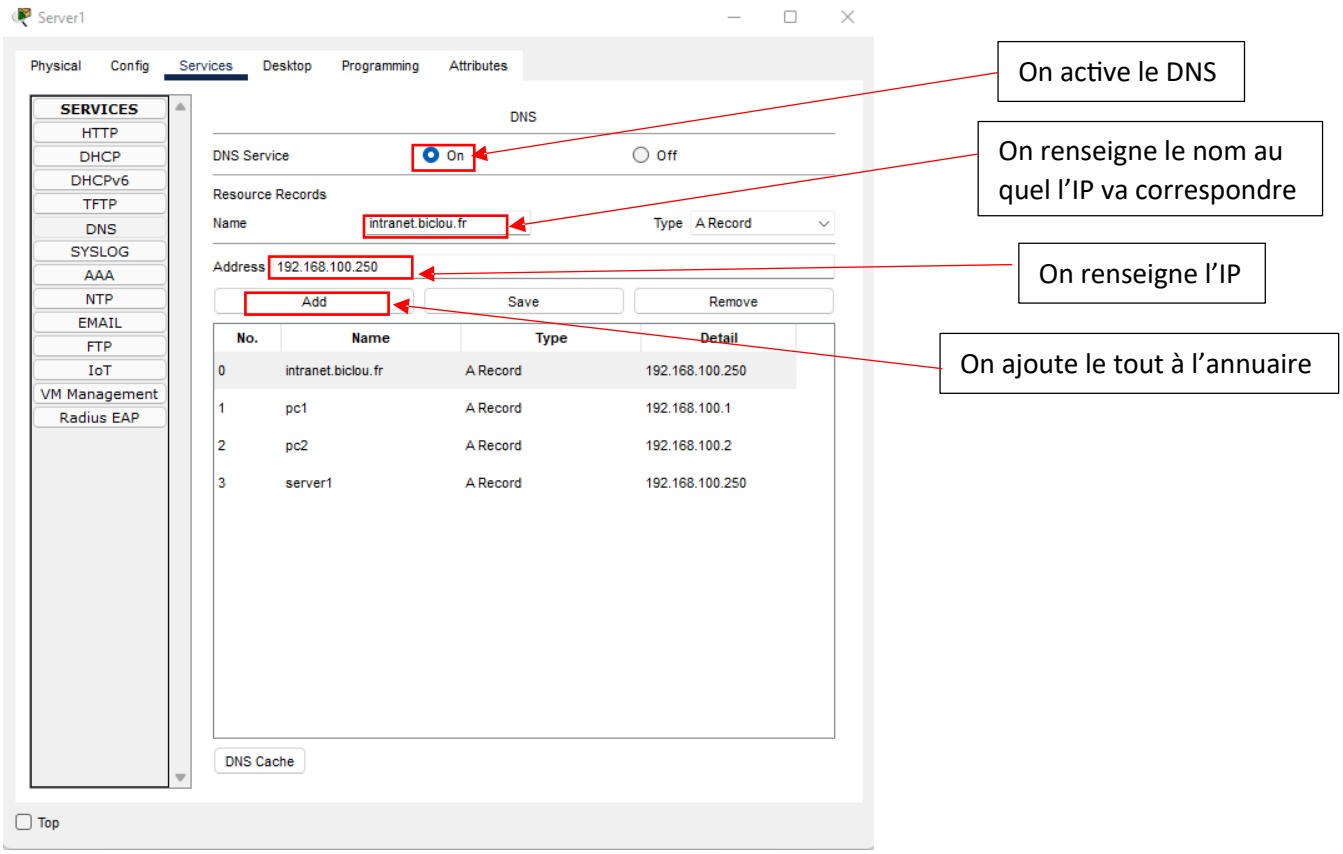


On peut voir que le serveur DHCP et le wifi fonctionne puisque le pc portable a pris une adresse IP sur la plage réseau et qu'il a reçu la passerelle et le serveur DNS. Le ping fonctionne aussi.

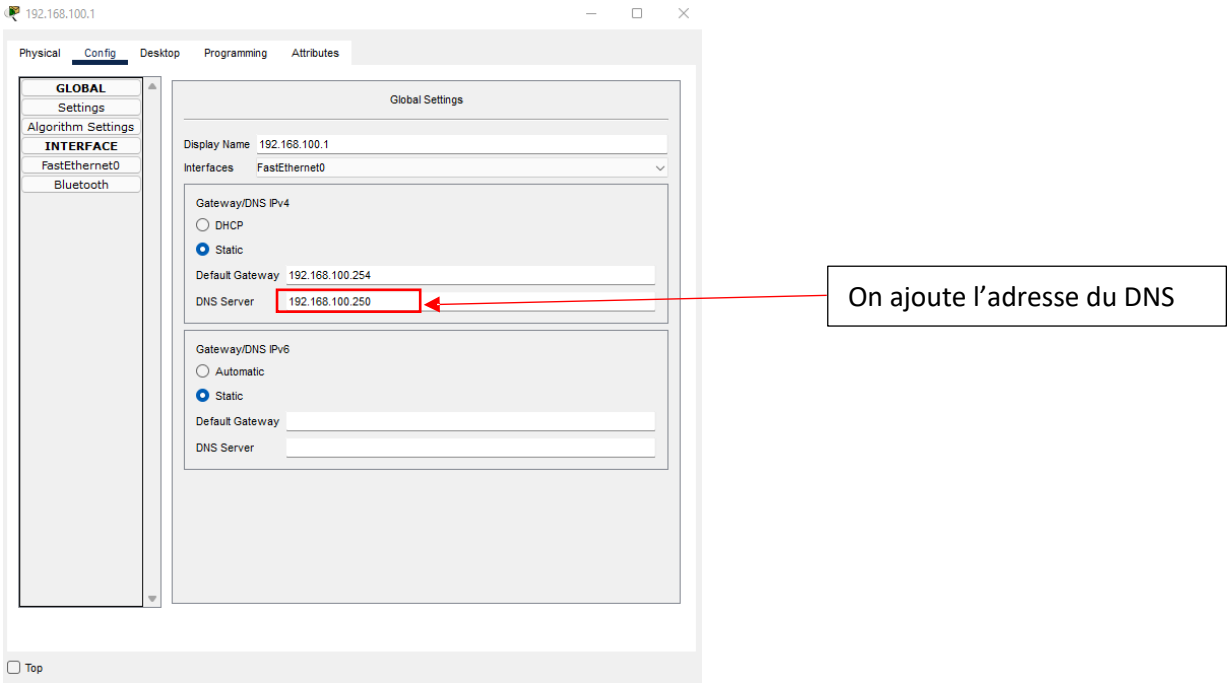


Mission 5 : Création d'un serveur DNS

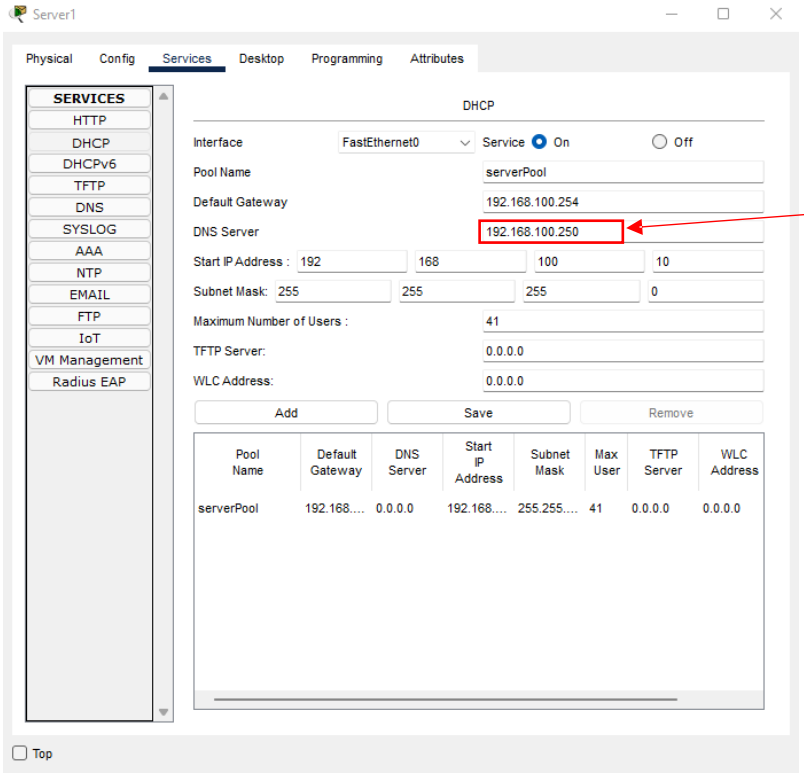
- Paramétrage du DNS et création de la table d'annuaire



Ajout de l'IP du serveur DNS dans les pcs 1 et 2



- Ajout du serveur DNS au serveur DHCP



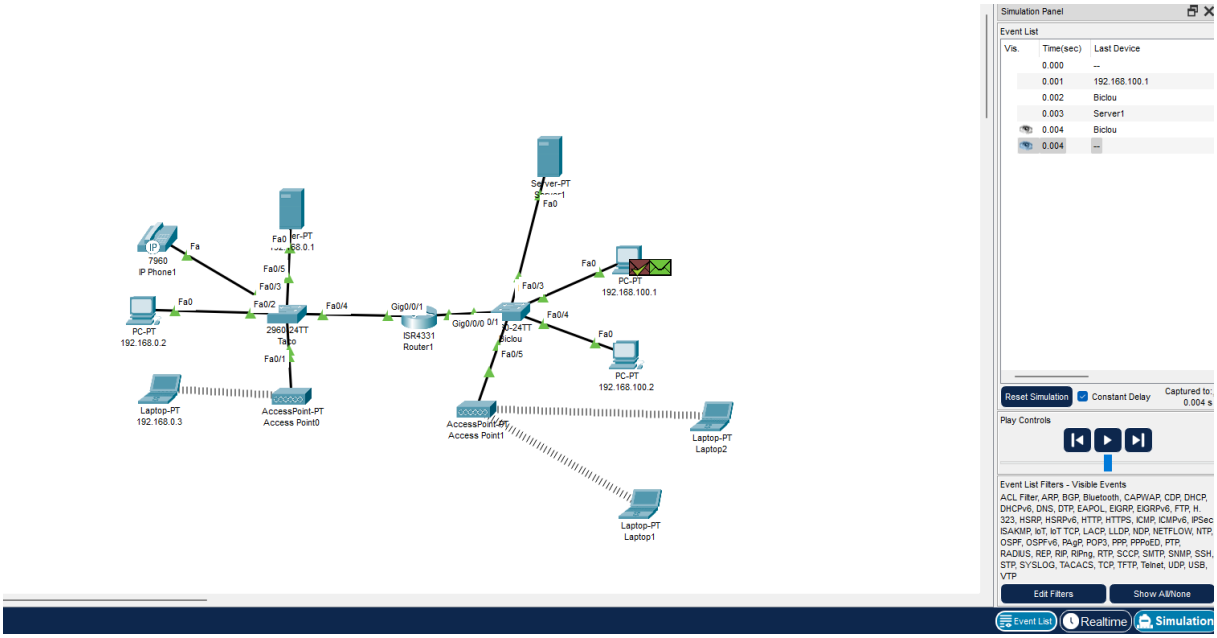
On ajoute l'adresse du DNS au DHCP

- Test du serveur DNS

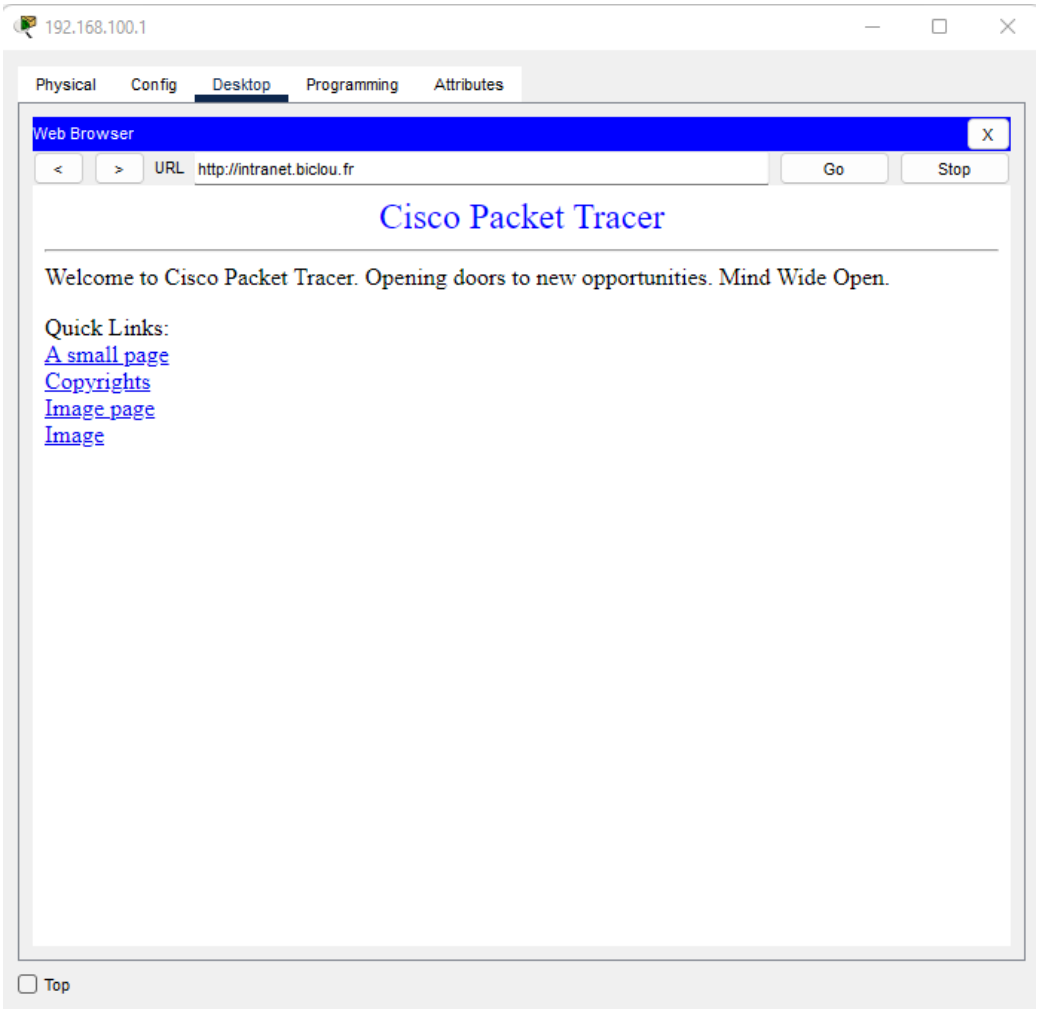
Avec un des pcs j'ai ping le serveur DNS avec son IP et son nom de domaine

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.100.250

Pinging 192.168.100.250 with 32 bytes of data:

Reply from 192.168.100.250: bytes=32 time<1ms TTL=128
Reply from 192.168.100.250: bytes=32 time<1ms TTL=128
Reply from 192.168.100.250: bytes=32 time<1ms TTL=128
Reply from 192.168.100.250: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.100.250:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping intranet.biclou.fr

Pinging 192.168.100.250 with 32 bytes of data:

Reply from 192.168.100.250: bytes=32 time<1ms TTL=128
Reply from 192.168.100.250: bytes=32 time<1ms TTL=128
Reply from 192.168.100.250: bytes=32 time=1ms TTL=128
Reply from 192.168.100.250: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.100.250:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

On voit le trajet des paquet ping



J’arrive à accéder au serveur DNS depuis le navigateur d’un pc.



Mission 6 : Réseau complexe

Résumé du CDC :

- 6réseau, 2 par étage
- 2 PC + imprimante/ service
- Une salle info avec 1PC + imprimante + 3serveur + Switch + routeur
- Débits : Giga pour routeur, switch centrale et serveurs
  FastEthernet pour le reste

Préparation matérielle :

- Routeur 1941
- Switch centrale 3650
- Switch étage 2960

Port utilisé :

- Routeur : g0/0 et g0/1
- Switch étage : f0/0 à f0/24, g0/0 et g0/2
- Switch centrale : g1/0/1 et g1/0/24, g1/1/1 à g1/1/4

Câblage :

- PC 1 port 1
- PC 2 port 2
- Imprimante port

Interface	Connecté à
G 1/0/24	Routeur
G 1/0/1	Serveur-AD
G 1/0/2	Serveur-Appli
G 1/0/3	Serveur-Fichiers
G 1/0/4	Switch étage 1 g0/1
G 1/0/5	Switch étage 2 g0/1
G 1/0/6	Switch étage 3 g0/1
G 1/0/10	PC Info
G 1/0/11	Imprimante 0
G 1/0/20	Wifi

Câblage switch principal

Direction	DI
Exams	EX
Paie	PA
Emploi	EM
Médecine	ME
Assurance	AS

Méthode de nomination

Interface	Connecté à
F0/1	DI1
F0/2	DI2
F0/3	Imprimante DI
F0/4	EX1
F0/5	EX2
F0/6	Imprimante EX
G 0/1	Switch Principal

Câblage switch étage 1

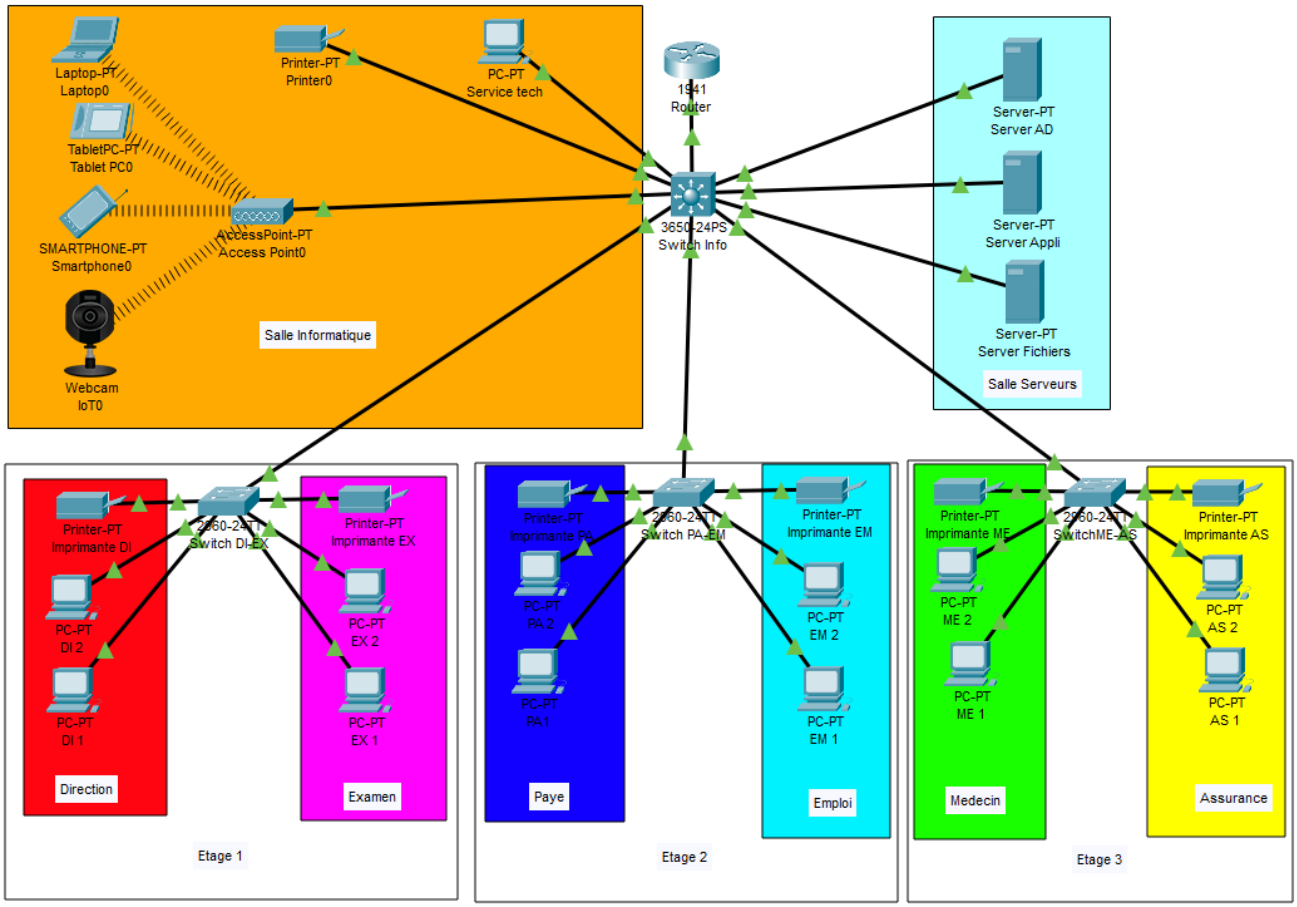
Interface	Connecté à
F0/1	PA1
F0/2	PA2
F0/3	Imprimante PA
F0/4	EM1
F0/5	EM2
F0/6	Imprimante EM
G 0/1	Switch Principal

Câblage switch étage 2

Interface	Connecté à
F0/1	ME1
F0/2	ME2
F0/3	Imprimante ME
F0/4	AS1
F0/5	AS2
F0/6	Imprimante AS
G 0/1	Switch Principal

Câblage switch étage 3

Schéma Logique



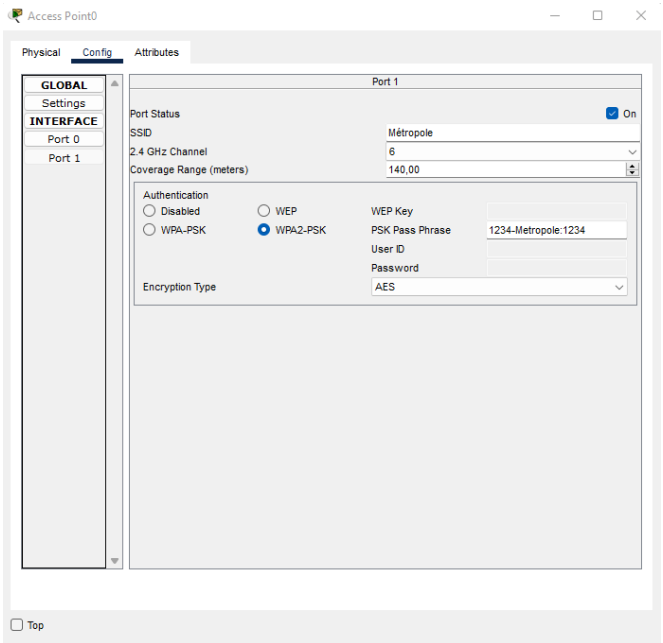
Adressage IP :

Service	Réseau	1er IP	Dernière IP	Passerelle
Service tech	192.168.100.0/24	192.168.100.10	192.168.100.253	192.168.100.254
Directions	192.168.11.0/24	192.168.11.1	192.168.11.253	192.168.11.254
Exams	192.168.12.0/24	192.168.12.1	192.168.12.253	192.168.12.254
Paie	192.168.13.0/24	192.168.13.1	192.168.13.253	192.168.13.254
Emploi	192.168.14.0/24	192.168.14.1	192.168.14.253	192.168.14.254
Médecine	192.168.15.0/24	192.168.15.1	192.168.15.253	192.168.15.254
Assurance	192.168.16.0/24	192.168.16.1	192.168.16.253	192.168.16.254
Serveur AD	192.168.20.0/24	192.168.20.1	192.168.20.253	192.168.20.254
Serveur Appli	192.168.21.0/24	192.168.21.1	192.168.21.253	192.168.21.254
Serveur Fichiers	192.168.22.0/24	192.168.22.1	192.168.22.253	192.168.22.254
Imprimante	192.168.30.0/24	192.168.30.1	192.168.30.253	192.168.30.254
Laptop	192.168.60.0/24	192.168.60.1		192.168.60.254
TV	192.168.60.0/24	192.168.60.2		192.168.60.254
Tablette	192.168.60.0/24	192.168.60.3		192.168.60.254
Smartphone	192.168.60.0/24	192.168.60.4		192.168.60.254
Caméra IP	192.168.60.0/24	192.168.60.5		192.168.60.254

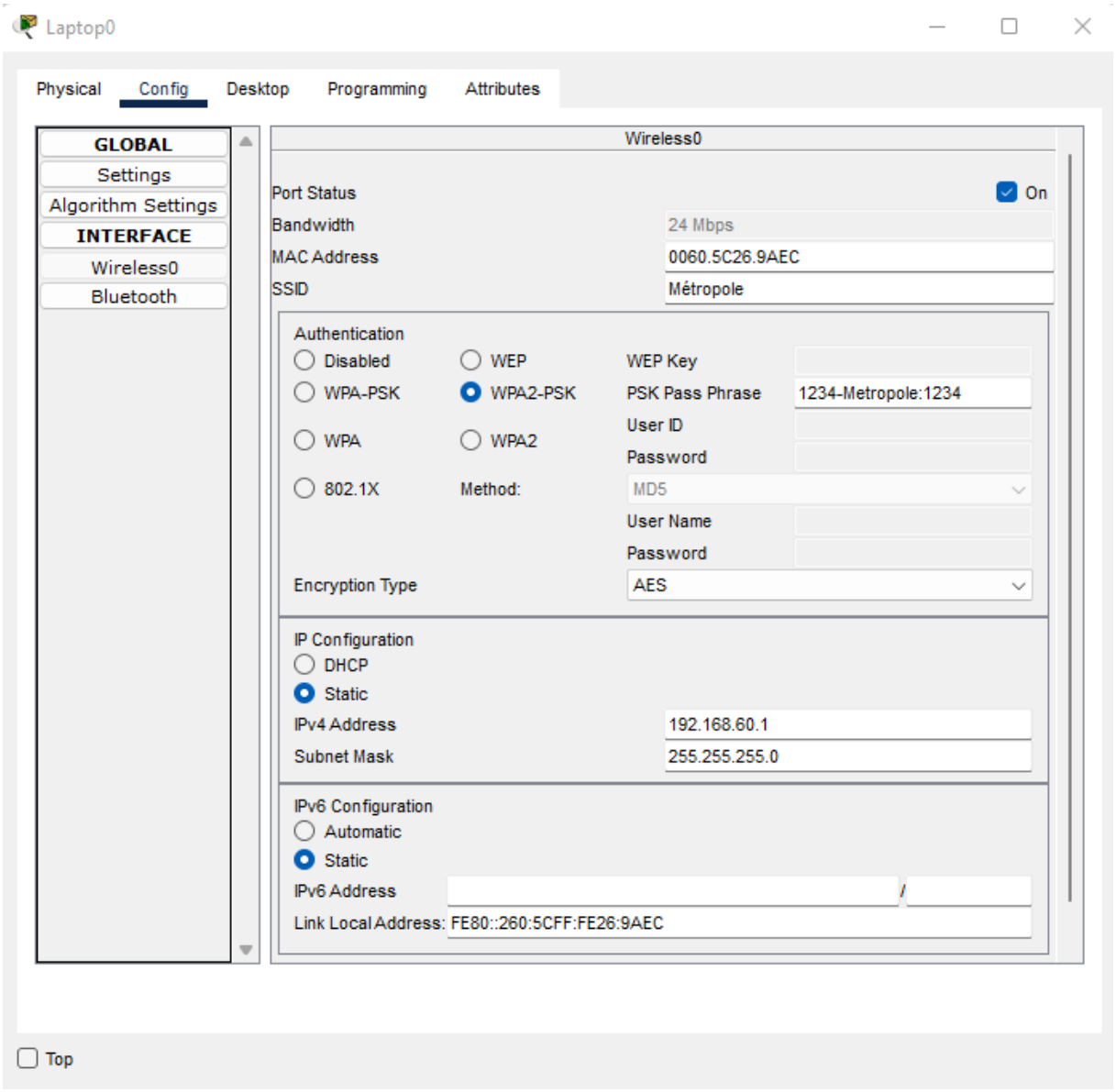
- Ajout du point d'accès sans fil

Nom SSID	Sécurité	Mot de passe
Métropole	WPA2-PSK	1234-Metropole:1234

- *Configuration point d'accès*

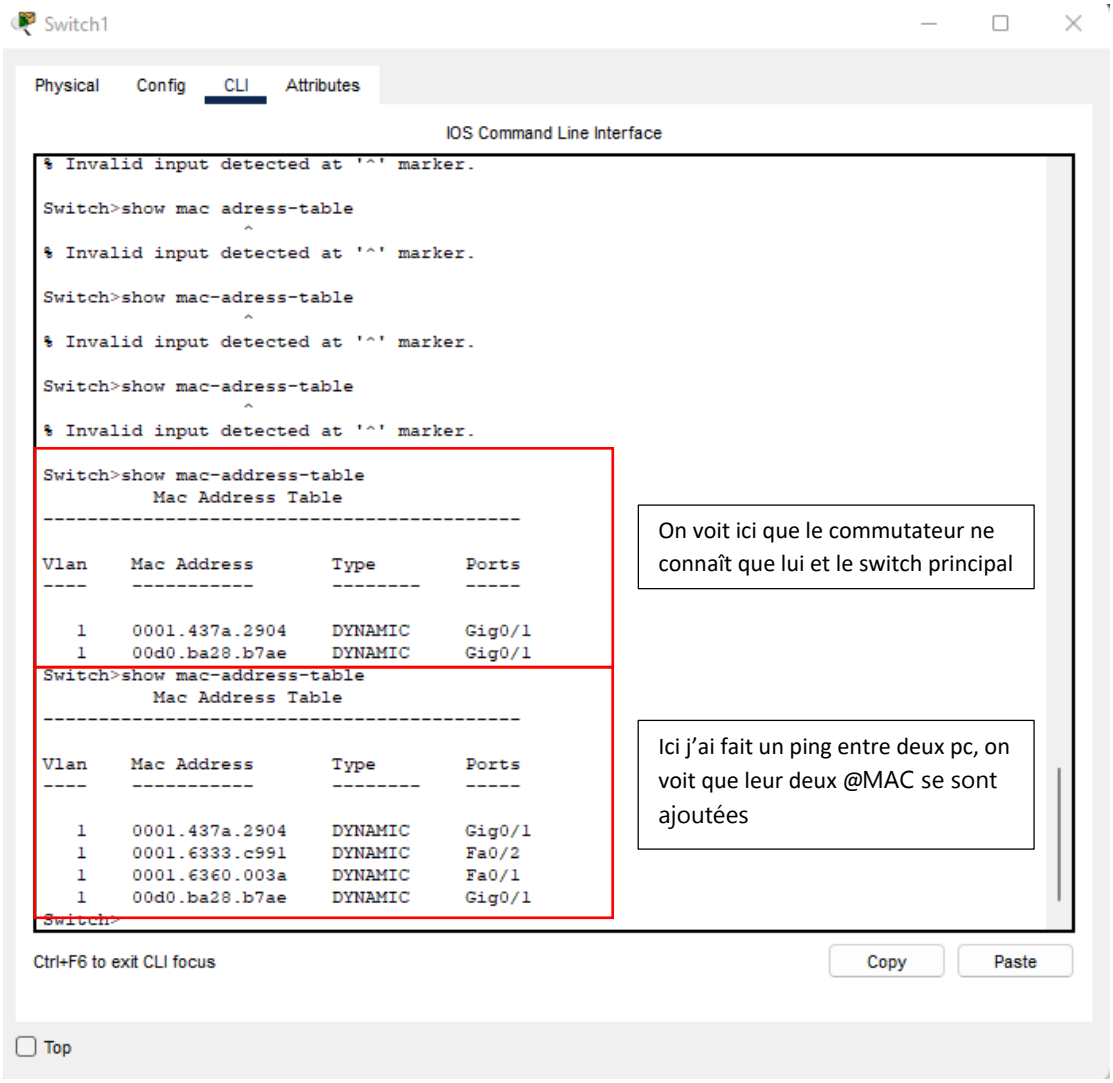


Configuration Laptop, TV, Tablette, Smartphone et caméra IP



- Utilisation CLI

- *Table d'adresse MAC*



- *Commande privilège et aide*

```
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#line console 0
Switch(config-line)#exit
Switch(config)#interface FastEthernet 0/1
Switch(config-if)#exit
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console
```

```
Switch>en
Switch>enable
```

En faisant TAB la commande c'est complété toute seul

```
Switch>?
Exec commands:
  connect     Open a terminal connection
  disable     Turn off privileged commands
  disconnect  Disconnect an existing network connection
  enable      Turn on privileged commands
  exit        Exit from the EXEC
  logout      Exit from the EXEC
  ping        Send echo messages
  resume      Resume an active network connection
  show        Show running system information
  ssh         Open a secure shell client connection
  telnet      Open a telnet connection
  terminal    Set terminal line parameters
  traceroute  Trace route to destination
Switch>en
Switch#?
Exec commands:
  clear       Reset functions
  clock       Manage the system clock
  configure   Enter configuration mode
  connect     Open a terminal connection
  copy        Copy from one file to another
  debug       Debugging functions (see also 'undebug')
  delete      Delete a file
  dir         List files on a filesystem
  disable     Turn off privileged commands
  disconnect  Disconnect an existing network connection
  enable      Turn on privileged commands
  erase       Erase a filesystem
  exit        Exit from the EXEC
  logout      Exit from the EXEC
  more        Display the contents of a file
  no          Disable debugging informations
  ping        Send echo messages
  reload      Halt and perform a cold restart
  resume      Resume an active network connection
  setup       Run the SETUP command facility
  show        Show running system information
  ssh         Open a secure shell client connection
  telnet      Open a telnet connection
  terminal    Set terminal line parameters
  traceroute  Trace route to destination
  undebug     Disable debugging functions (see also 'debug')
  write       Write running configuration to memory, network, or terminal
Switch#
```

On voit qu'il y a beaucoup plus de commande disponible en mode Privilégié.

- *VLAN*

```
Router>en
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#host catalyst 3650
                           ^
% Invalid input detected at '^' marker.

Router(config)#host catalyst-3650
catalyst-3650(config)#interface vlan 100
catalyst-3650(config-if)#ip address 192.168.100.1 255.255.255.0
catalyst-3650(config-if)#ip default-gateway 192.168.100.254
catalyst-3650(config)#interface vlan 100
catalyst-3650(config-if)#no shutdown

catalyst-3650>
catalyst-3650>show ip interface brief
Interface              IP-Address      OK? Method Status                Protocol
GigabitEthernet0/0     192.168.1.254   YES manual up                    up
GigabitEthernet0/1     unassigned      YES unset  administratively down down
Vlan1                  unassigned      YES unset  administratively down down
Vlan100                192.168.100.1   YES manual down                  down
catalyst-3650>
```

Config routeur

```
Switch>en
Switch#configure interface
                  ^
% Invalid input detected at '^' marker.

Switch#configure terminal
Enter configuration commands, one per line.  End with CNTL/
Switch(config)#host info
info(config)#interface vlan 100
info(config-if)#ip address 192.168.100.5 255.255.255.0
info(config-if)#ip default-gateway 192.168.100.254/24
                    ^
% Invalid input detected at '^' marker.

info(config-if)#ip default-gateway 192.168.100.254
info(config)#interface vlan 100
info(config-if)#no shutdown

info>show ip interface brief
Interface              IP-Address      OK? Method Status                Protocol
GigabitEthernet1/0/1   unassigned      YES unset  up                    up
GigabitEthernet1/0/2   unassigned      YES unset  up                    up
GigabitEthernet1/0/3   unassigned      YES unset  up                    up
GigabitEthernet1/0/4   unassigned      YES unset  up                    up
GigabitEthernet1/0/5   unassigned      YES unset  up                    up
GigabitEthernet1/0/6   unassigned      YES unset  up                    up
GigabitEthernet1/0/7   unassigned      YES unset  down                  down
GigabitEthernet1/0/8   unassigned      YES unset  down                  down
GigabitEthernet1/0/9   unassigned      YES unset  down                  down
GigabitEthernet1/0/10  unassigned      YES unset  up                    up
GigabitEthernet1/0/11  unassigned      YES unset  up                    up
GigabitEthernet1/0/12  unassigned      YES unset  down                  down
GigabitEthernet1/0/13  unassigned      YES unset  down                  down
GigabitEthernet1/0/14  unassigned      YES unset  down                  down
GigabitEthernet1/0/15  unassigned      YES unset  down                  down
GigabitEthernet1/0/16  unassigned      YES unset  down                  down
GigabitEthernet1/0/17  unassigned      YES unset  down                  down
GigabitEthernet1/0/18  unassigned      YES unset  down                  down
GigabitEthernet1/0/19  unassigned      YES unset  down                  down
GigabitEthernet1/0/20  unassigned      YES unset  up                    up
GigabitEthernet1/0/21  unassigned      YES unset  down                  down
GigabitEthernet1/0/22  unassigned      YES unset  down                  down
GigabitEthernet1/0/23  unassigned      YES unset  down                  down
GigabitEthernet1/0/24  unassigned      YES unset  up                    up
GigabitEthernet1/1/1   unassigned      YES unset  down                  down
GigabitEthernet1/1/2   unassigned      YES unset  down                  down
GigabitEthernet1/1/3   unassigned      YES unset  down                  down
GigabitEthernet1/1/4   unassigned      YES unset  down                  down
Vlan1                  unassigned      YES unset  administratively down down
Vlan100                192.168.100.5   YES manual down                  down
```

Config switch principal

```
Switch>en
Switch#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#host dir-exam
dir-exam(config)#interface vlan 100
dir-exam(config-if)#ip address 192.168.100.2 255.255.255.0
dir-exam(config-if)#ip default-gateway 192.168.100.254
dir-exam(config)#interface vlan 100
dir-exam(config-if)#no shutdown
dir-exam(config-if)#exit
dir-exam(config)#exit
dir-exam#
%SYS-5-CONFIG_I: Configured from console by console
```

Config Switch
Direction-Examain

```
dir-exam>show ip interface brief
Interface              IP-Address      OK? Method Status                Protocol
FastEthernet0/1        unassigned      YES manual up                    up
FastEthernet0/2        unassigned      YES manual up                    up
FastEthernet0/3        unassigned      YES manual up                    up
FastEthernet0/4        unassigned      YES manual up                    up
FastEthernet0/5        unassigned      YES manual up                    up
FastEthernet0/6        unassigned      YES manual up                    up
FastEthernet0/7        unassigned      YES manual down                  down
FastEthernet0/8        unassigned      YES manual down                  down
FastEthernet0/9        unassigned      YES manual down                  down
FastEthernet0/10       unassigned      YES manual down                  down
FastEthernet0/11       unassigned      YES manual down                  down
FastEthernet0/12       unassigned      YES manual down                  down
FastEthernet0/13       unassigned      YES manual down                  down
FastEthernet0/14       unassigned      YES manual down                  down
FastEthernet0/15       unassigned      YES manual down                  down
FastEthernet0/16       unassigned      YES manual down                  down
FastEthernet0/17       unassigned      YES manual down                  down
FastEthernet0/18       unassigned      YES manual down                  down
FastEthernet0/19       unassigned      YES manual down                  down
FastEthernet0/20       unassigned      YES manual down                  down
FastEthernet0/21       unassigned      YES manual down                  down
FastEthernet0/22       unassigned      YES manual down                  down
FastEthernet0/23       unassigned      YES manual down                  down
FastEthernet0/24       unassigned      YES manual down                  down
GigabitEthernet0/1     unassigned      YES manual up                    up
GigabitEthernet0/2     unassigned      YES manual down                  down
Vlan1                  unassigned      YES manual administratively down down
Vlan100                192.168.100.2   YES manual down                  down
```

```
Switch>en
Switch#configure terminal
Enter configuration commands, one per line.  End with CNTL,
Switch(config)#host paie-emploi
paie-emploi(config)#interface vlan 100
paie-emploi(config-if)#ip address 192.168.100.3 255.255.25!
paie-emploi(config-if)#ip default-gateway 192.168.100.254
paie-emploi(config)#no shutdown
                    ^
% Invalid input detected at '^' marker.

paie-emploi(config)#interface vlan 100
paie-emploi(config-if)#no shutdown
paie-emploi(config-if)#exit
paie-emploi(config)#exit
paie-emploi#
%SYS-5-CONFIG_I: Configured from console by console

paie-emploi#
```

Config Switch Paie-Emploi

```
paie-emploi>show ip interface brief
Interface              IP-Address      OK? Method Status                Protocol
FastEthernet0/1        unassigned      YES manual up                    up
FastEthernet0/2        unassigned      YES manual up                    up
FastEthernet0/3        unassigned      YES manual up                    up
FastEthernet0/4        unassigned      YES manual up                    up
FastEthernet0/5        unassigned      YES manual up                    up
FastEthernet0/6        unassigned      YES manual up                    up
FastEthernet0/7        unassigned      YES manual down                  down
FastEthernet0/8        unassigned      YES manual down                  down
FastEthernet0/9        unassigned      YES manual down                  down
FastEthernet0/10       unassigned      YES manual down                  down
FastEthernet0/11       unassigned      YES manual down                  down
FastEthernet0/12       unassigned      YES manual down                  down
FastEthernet0/13       unassigned      YES manual down                  down
FastEthernet0/14       unassigned      YES manual down                  down
FastEthernet0/15       unassigned      YES manual down                  down
FastEthernet0/16       unassigned      YES manual down                  down
FastEthernet0/17       unassigned      YES manual down                  down
FastEthernet0/18       unassigned      YES manual down                  down
FastEthernet0/19       unassigned      YES manual down                  down
FastEthernet0/20       unassigned      YES manual down                  down
FastEthernet0/21       unassigned      YES manual down                  down
FastEthernet0/22       unassigned      YES manual down                  down
FastEthernet0/23       unassigned      YES manual down                  down
FastEthernet0/24       unassigned      YES manual down                  down
GigabitEthernet0/1     unassigned      YES manual up                    up
GigabitEthernet0/2     unassigned      YES manual down                  down
Vlan1                  unassigned      YES manual administratively down down
Vlan100                192.168.100.3   YES manual down                  down
paie-emploi>
```

```
Switch>en
Switch#host Med-Ass
            ^
% Invalid input detected at '^' marker.

Switch#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#host med-ass
med-ass(config)#interface vlan 100
med-ass(config-if)#ip address 192.168.100.4 255.255.255.0
med-ass(config-if)#ip default-gateaway 192.168.100.254
                    ^
% Invalid input detected at '^' marker.

med-ass(config-if)#ip default-gateaway 192.168.100.254
med-ass#
%SYS-5-CONFIG_I: Configured from console by console

med-ass#interface vlan 100
                  ^
% Invalid input detected at '^' marker.

med-ass#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
med-ass(config)#interface vlan 100
med-ass(config-if)#ip default-gateway 192.168.100.254

med-ass>show ip interface brief
Interface              IP-Address      OK? Method Status                Protocol
FastEthernet0/1        unassigned      YES manual up                    up
FastEthernet0/2        unassigned      YES manual up                    up
FastEthernet0/3        unassigned      YES manual up                    up
FastEthernet0/4        unassigned      YES manual up                    up
FastEthernet0/5        unassigned      YES manual up                    up
FastEthernet0/6        unassigned      YES manual up                    up
FastEthernet0/7        unassigned      YES manual down                  down
FastEthernet0/8        unassigned      YES manual down                  down
FastEthernet0/9        unassigned      YES manual down                  down
FastEthernet0/10       unassigned      YES manual down                  down
FastEthernet0/11       unassigned      YES manual down                  down
FastEthernet0/12       unassigned      YES manual down                  down
FastEthernet0/13       unassigned      YES manual down                  down
FastEthernet0/14       unassigned      YES manual down                  down
FastEthernet0/15       unassigned      YES manual down                  down
FastEthernet0/16       unassigned      YES manual down                  down
FastEthernet0/17       unassigned      YES manual down                  down
FastEthernet0/18       unassigned      YES manual down                  down
FastEthernet0/19       unassigned      YES manual down                  down
FastEthernet0/20       unassigned      YES manual down                  down
FastEthernet0/21       unassigned      YES manual down                  down
FastEthernet0/22       unassigned      YES manual down                  down
FastEthernet0/23       unassigned      YES manual down                  down
FastEthernet0/24       unassigned      YES manual down                  down
GigabitEthernet0/1     unassigned      YES manual up                    up
GigabitEthernet0/2     unassigned      YES manual down                  down
Vlan1                  unassigned      YES manual administratively down down
Vlan100                192.168.100.4   YES manual down                  down
med-ass>
```

Config Switch
Médecin-Assurance

Activation du Vlan sur les ports

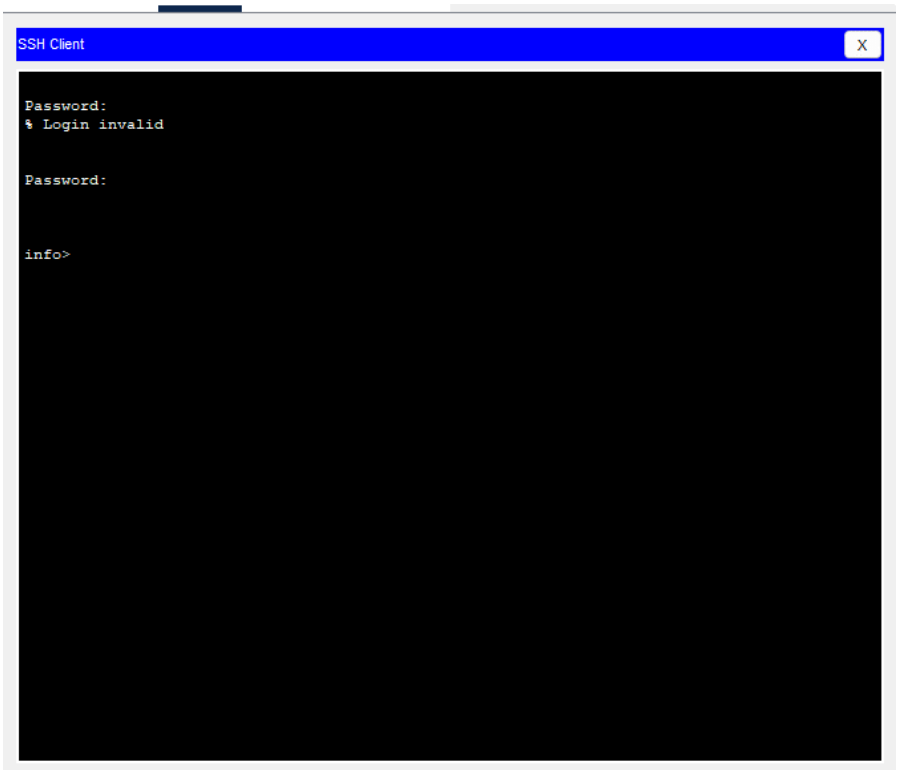
```
med-ass(config)#int fa 0/1
med-ass(config-if)#swit
med-ass(config-if)#switchport mode access
med-ass(config-if)#swi
med-ass(config-if)#switchport access vlan 100
% Access VLAN does not exist. Creating vlan 100
med-ass(config-if)#
%LINK-5-CHANGED: Interface Vlan100, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan100, changed state to up

med-ass(config-if)#no shut
med-ass(config-if)#end
med-ass#
%SYS-5-CONFIG_I: Configured from console by console

med-ass#reload
```

- Configuration SSH

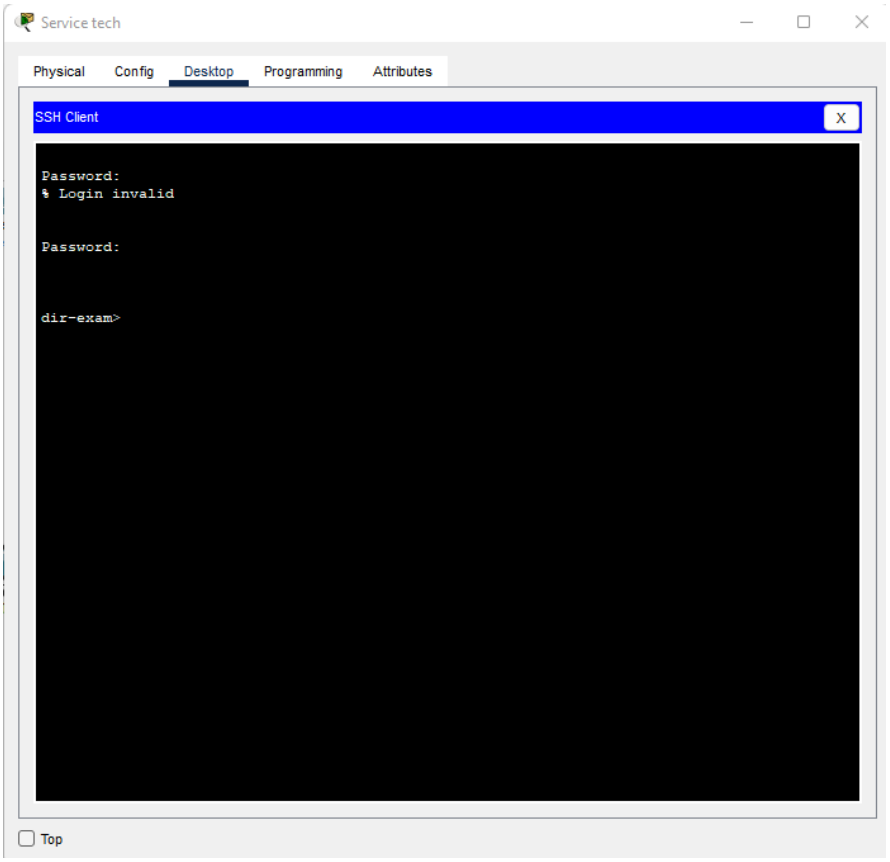
```
med-ass>en
med-ass#cont f
               ^
% Invalid input detected at '^' marker.

med-ass#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
med-ass(config)#enable secret 1234-MetroPole:1234
med-ass(config)#ip domain-name metropole.com
med-ass(config)#crypto key generate rsa
The name for the keys will be: med-ass.metropole.com
Choose the size of the key modulus in the range of 360 to 2048 for your
  General Purpose Keys. Choosing a key modulus greater than 512 may take
  a few minutes.

How many bits in the modulus [512]: 1024
% Generating 1024 bit RSA keys, keys will be non-exportable...[OK]

med-ass(config)#username admin secret 1234-MetroPole:1234
*Mar 1 1:4:44.364: %SSH-5-ENABLED: SSH 1.99 has been enabled
med-ass(config)#line vty 0 15
med-ass(config-line)#transport input ssh
med-ass(config-line)#login local
med-ass(config-line)#end
med-ass#
%SYS-5-CONFIG_I: Configured from console by console

med-ass#
```

Test des connexion SSH

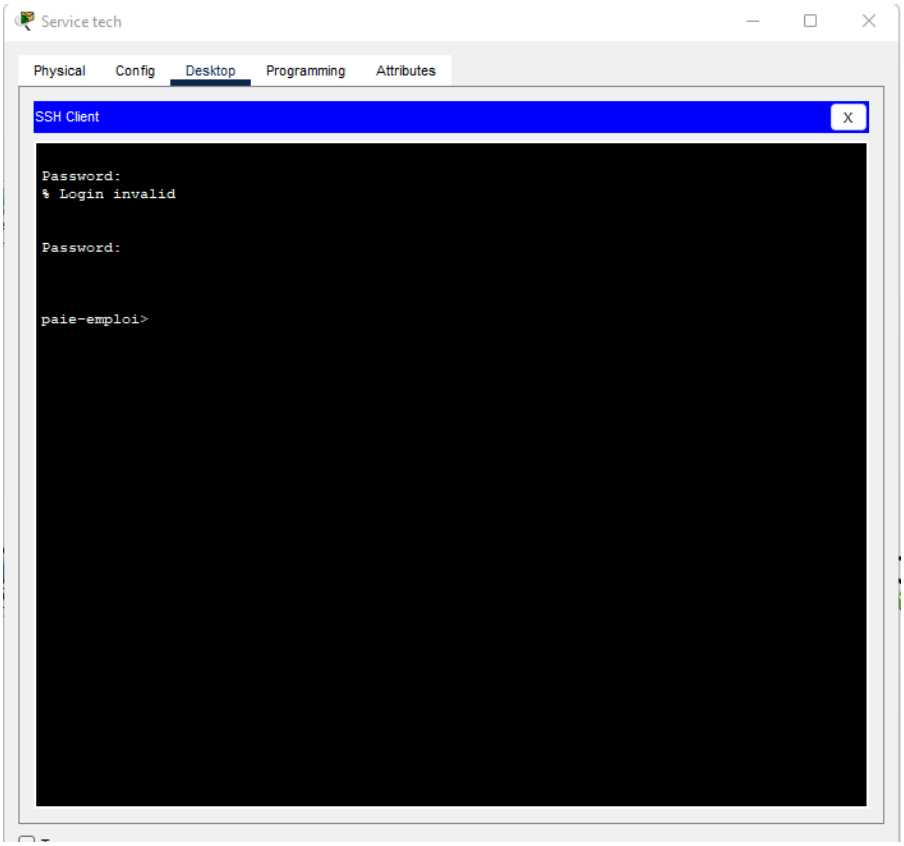
Switch INFO (Commutateur principale)



Switch Direction-Exam



Switch Paie-Emploi



Switch Medecin-Assurance