

# **Travaux Pratiques N°2**

## **Configuration IP des périphériques finaux sous Cisco Packet Tracer**

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**GROUP 2**

**N : 31**

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**Objectifs:**

**L'usage des sous-réseaux, Configuration IP des périphériques finaux,  
Configuration des paramètres de base d'un commutateur de couche 2**

**Prenant en considération le schéma suivant représentant le réseau de  
l'entreprise de Service**

**Médecine et Assurance.**

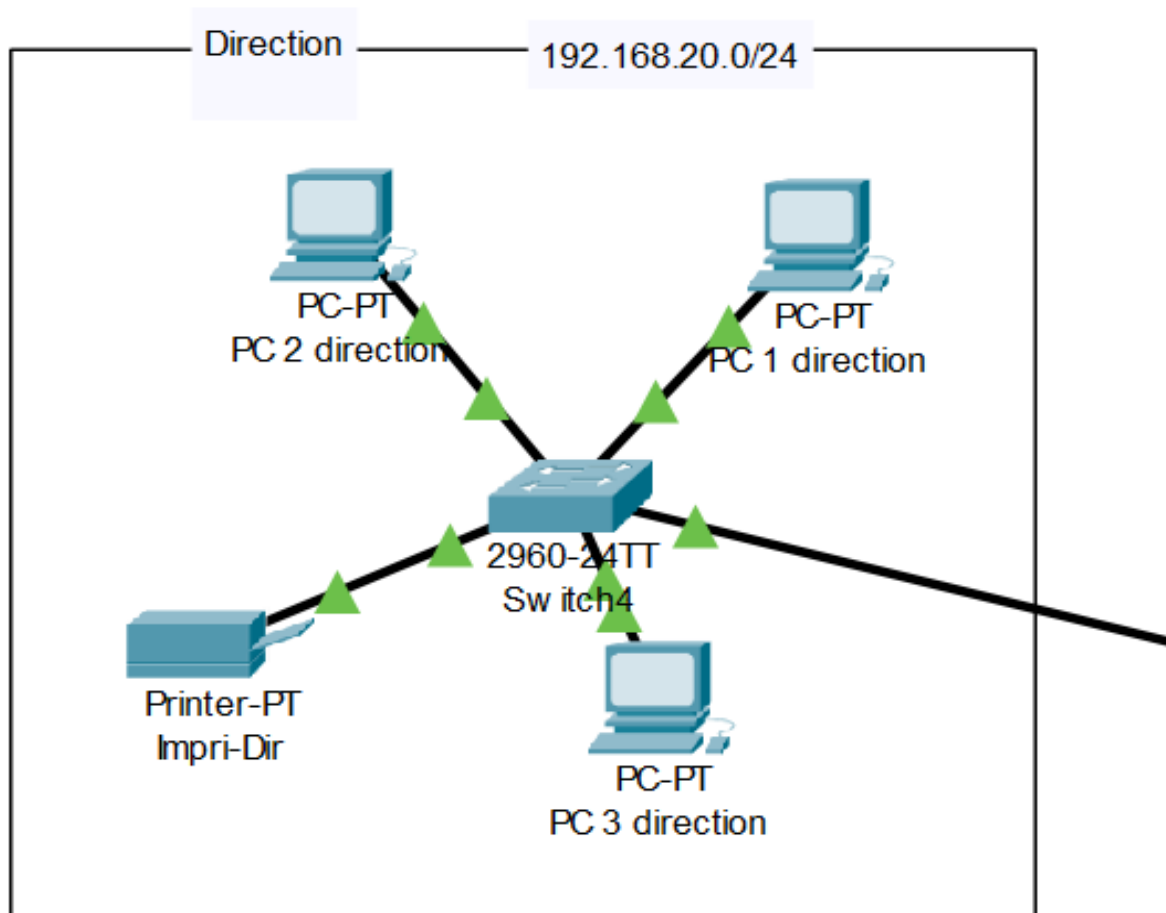
## A. Configuration IP des périphériques finaux

**Avant de configurer les équipements d'interconnexion, vous allez tout d'abord configurer les adresses**

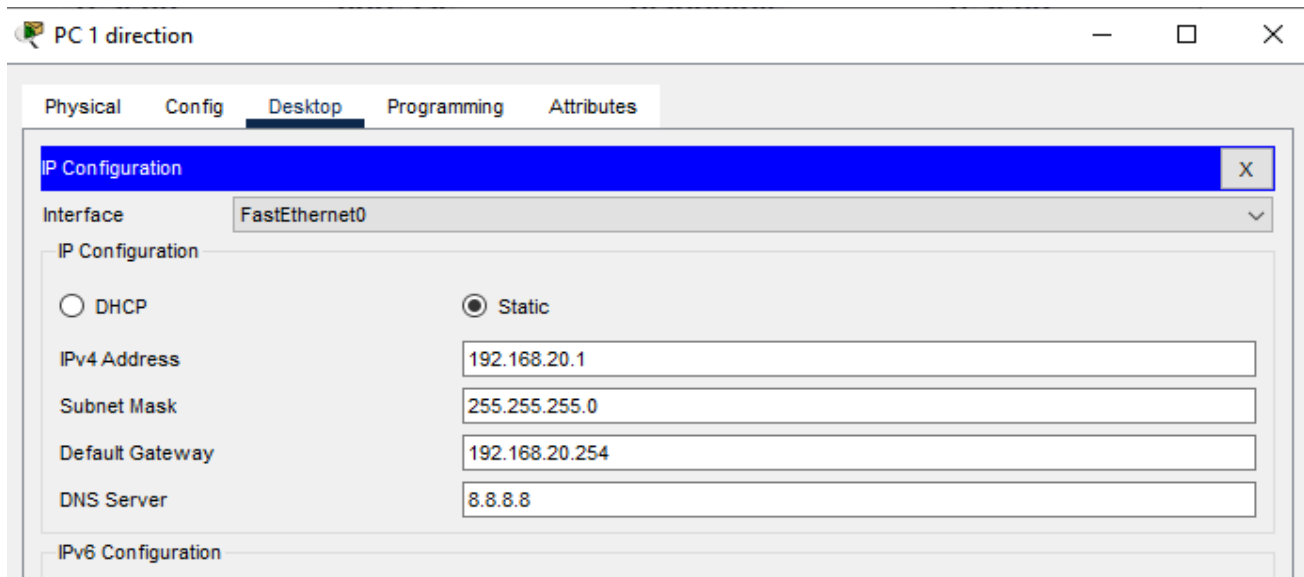
**IP des périphériques finaux : Ordinateurs, Imprimantes, Serveurs. Vous trouvez ci-dessous le plan d'adressage complet de notre maquette sous Cisco Packet Tracer.**

Groupes	Adresse réseau	Première adresse disponible	Dernière adresse disponible	Passerelle réseau
Direction	192.168.20.0/24	192.168.20.1	192.168.20.253	192.168.20.254
Examen / Concours	192.168.21.0/24	192.168.21.1	192.168.21.253	192.168.21.254
Paie/DRH	192.168.22.0/24	192.168.22.1	192.168.22.253	192.168.22.254
Emploi	192.168.23.0/24	192.168.23.1	192.168.23.253	192.168.23.254
Médecine	192.168.24.0/24	192.168.24.1	192.168.24.253	192.168.24.254
Assurance	192.168.25.0/24	192.168.25.1	192.168.25.253	192.168.25.254
Info/RGPD	192.168.27.0/24	192.168.27.1	192.168.27.253	192.168.27.254
Serveurs	192.168.30.0/24	192.168.30.1	192.168.30.253	192.168.30.254
Impression	192.168.40.0/24	192.168.40.1	192.168.40.253	192.168.40.254

## Example de LAN (Direction)



## configuration de PC1



## example de configuration de imprimante

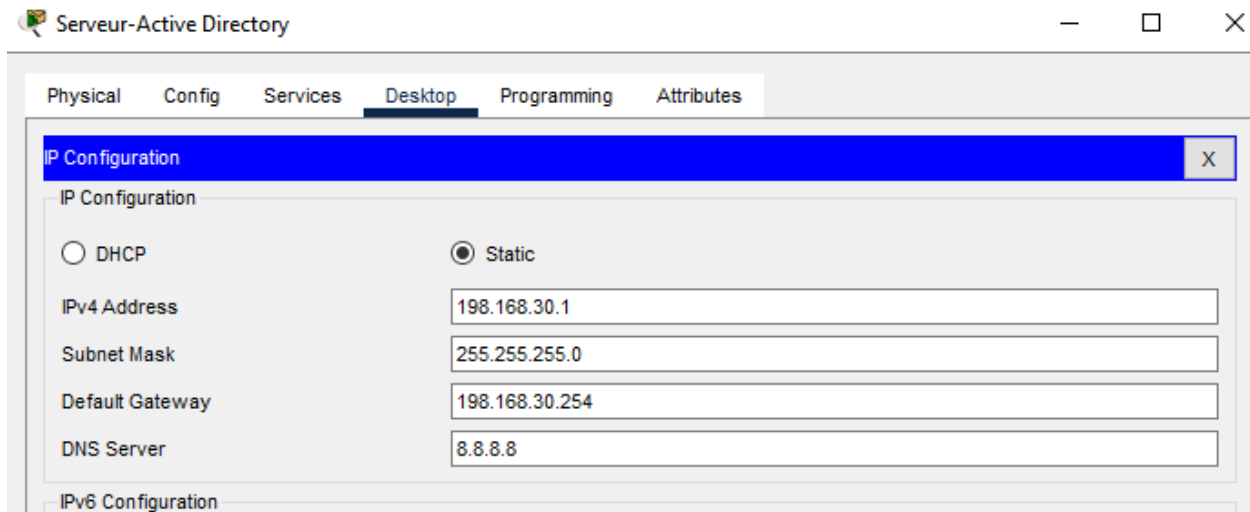
The screenshot shows the 'Impri-Dir' configuration window with the 'Config' tab selected. The left sidebar shows a tree view with 'GLOBAL' selected, containing 'Settings' and 'INTERFACE' (with 'FastEthernet0' sub-selected). The main area is titled 'Global Settings' and contains the following fields:

- Display Name:
- Gateway/DNS IPv4:
  - ☐ DHCP
  - ☒ Static
  - Default Gateway:
  - DNS Server:
- Gateway/DNS IPv6: (empty section)

The screenshot shows the 'Impri-Dir' configuration window with the 'Config' tab selected. The left sidebar shows a tree view with 'INTERFACE' selected, containing 'FastEthernet0'. The main area is titled 'FastEthernet0' and contains the following fields:

- Port Status: ☒ On
- Bandwidth: ☒ 100 Mbps ☐ 10 Mbps ☒ Auto
- Duplex: ☐ Half Duplex ☒ Full Duplex ☒ Auto
- MAC Address:
- IP Configuration:
  - ☐ DHCP
  - ☒ Static
  - IPv4 Address:
  - Subnet Mask:
- IPv6 Configuration:
  - ☐ Automatic
  - ☒ Static
  - IPv6 Address:
  - Link Local Address:

## exemple de configuration de serveur



Serveur-Active Directory

Physical Config Services **Desktop** Programming Attributes

**IP Configuration** X

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 198.168.30.1

Subnet Mask 255.255.255.0

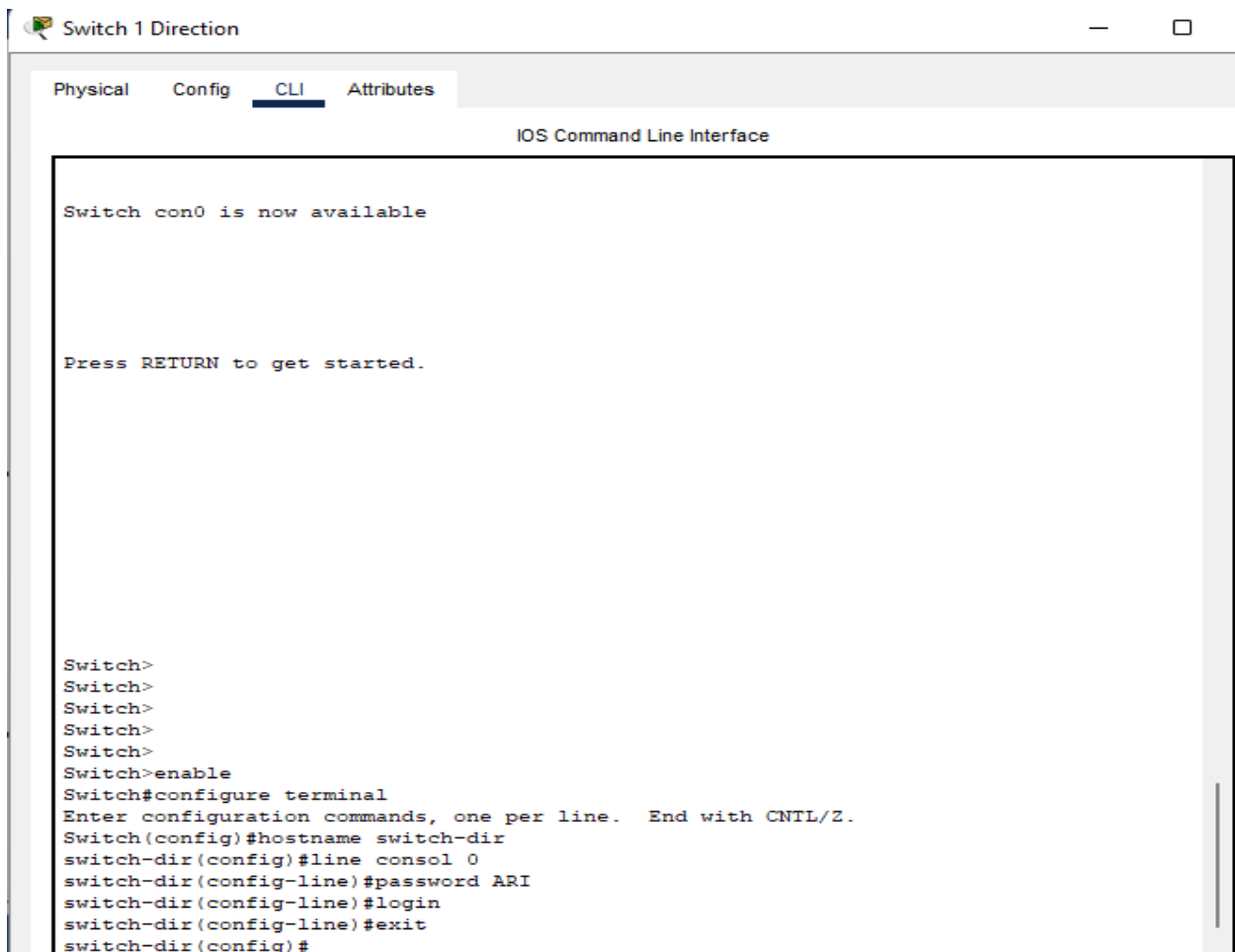
Default Gateway 198.168.30.254

DNS Server 8.8.8.8

IPv6 Configuration

## B. Configuration des paramètres de base d'un commutateur de couche 2

Etape 1 : Configuration initiale du commutateur



Switch 1 Direction

Physical Config **CLI** Attributes

IOS Command Line Interface

Switch con0 is now available

Press RETURN to get started.

```
Switch>
Switch>
Switch>
Switch>
Switch>
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname switch-dir
switch-dir(config)#line console 0
switch-dir(config-line)#password ARI
switch-dir(config-line)#login
switch-dir(config-line)#exit
switch-dir(config)#
```

## IOS Command Line Interface

```
Switch>
Switch>
Switch>
Switch>
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname switch-dir
switch-dir(config)#line consol 0
switch-dir(config-line)#password ARI
switch-dir(config-line)#login
switch-dir(config-line)#exit
switch-dir(config)#enable secret ARI
switch-dir(config)#vlan 10
switch-dir(config-vlan)#
switch-dir(config-vlan)#name direction
switch-dir(config-vlan)#exit
switch-dir(config)##interface
      ^
% Invalid input detected at '^' marker.

switch-dir(config)#interface FastEthernet0/1
switch-dir(config-if)#switchport mode access
switch-dir(config-if)#switchport access vlan 10
switch-dir(config-if)#
```