TP n°1 - Switch L3

Mise en place

Sur Packet Tracer, prendre un switch Switch L2 Cisco 2960, un switch L3 Cisco 3560, 3 PC et des câbles *Copper Straight-Through.*

Configuration des PC

PC 1	PC 2	PC 3
192.168.10.10	192.168.20.20	192.168.30.30
255.255.255.0	255.255.255.0	255.255.255.0
192.168.10.1	192.168.20.1	192.168.30.1

Configuration du switch L2

Ajouter les VLAN dans la BDD.

```
vlan 10
 name Informatique
vlan 20
 name Comptabilite
vlan 30
 name Direction
```

```
Switch(config)#
Switch(config)#vlan 10
Switch(config-vlan)# name Informatique
Switch(config-vlan)#vlan 20
Switch(config-vlan)# name Comptabilit
Switch(config-vlan)#vlan 30
Switch(config-vlan)# name Direction
Switch(config-vlan)#vlan 20
Switch(config-vlan)# name Comptabilite
Switch(config-vlan)#
Switch(config-vlan)#end
Switch#configure terminal
```

Ajouter pour chaque PC les ports et les VLAN

```
interface fa0/1
 switchport mode access
 switchport access vlan 10


interface fa0/2
 switchport mode access
 switchport access vlan 20
```

```
Switch(config)#interface FastEthernet0/1
Switch(config-if)#switchport access vlan 10
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/2
Switch(config-if)#switchport access vlan 20
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/3
Switch(config-if)#switchport access vlan 30
Switch(config-if)#exit
Switch(config)#
```

```
interface fa0/3
 switchport mode access
 switchport access vlan 30
```

Le Port vers L3 en trunk

```
interface fa0/24
 switchport mode trunk
 switchport trunk allowed vlan 10,20,30
```

Configuration du switch L3

Activation du routage

```
ip routing
```

Interfaces VLAN (SVI)

```
interface vlan 10
 ip address 192.168.10.1 255.255.255.0

interface vlan 20
 ip address 192.168.20.1 255.255.255.0

interface vlan 30
 ip address 192.168.30.1 255.255.255.0
```

Trunk vers le switch L2

```
interface gi0/1
 switchport mode trunk
 switchport trunk allowed vlan 10,20,30
```