

### a) Réinitialisation des Commutateurs

Switch#erase startup-config
Switch#delete flash:vlan.dat
Switch#reload

### Réinitialisation du routeur

Router#erase startup-config
Router#reload

Switch(config)#hostname SW1-SRV
SW1-SRV(config)#
Switch(config)#hostname SW2-Client
SW2-Client(config)#
Router(config)#hostname R1-Stade

### b) Administration et Gestion des Vlans

SW1-SRV(config)#vtp mode server
Device mode already VTP SERVER.
SW1-SRV(config)#vtp domain stadiumcompany.local

### c) Création des Ports Trunk

SW1-SRV(config)#interface range GigabitEthernet 0/7-8
SW1-SRV(config-if-range)#switchport mode trunk

### C) Création des Vlans

SW1-SRV(config)#vlan 10
SW1-SRV(config-vlan)#name Administration
SW1-SRV(config-vlan)#exit
SW1-SRV(config)#vlan 20
SW1-SRV(config-vlan)#name Equipes
SW1-SRV(config-vlan)#exit
SW1-SRV(config)#
SW1-SRV(config)#vlan 30
SW1-SRV(config-vlan)#name WiFi

### d) Attribution des Ports au Vlans

```
SW1-SRV(config)#interface range GigabitEthernet 0/1-2
SW1-SRV(config-if-range)#switchport access vlan 10
SW1-SRV(config)#interface range GigabitEthernet 0/3-4
SW1-SRV(config-if-range)#switchport access vlan 20
SW1-SRV(config)#interface range GigabitEthernet 0/5-6
SW1-SRV(config-if-range)#switchport access vlan 30
```

## **SW2-Client**

### **a) administration et Gestion des vlans**

```
SW2-Client(config)#vtp mode client
Setting device to VTP CLIENT mode.
SW2-Client(config)#vtp domain stadiumcompany.local
Domain name already set to stadiumcompany.local
SW2-Client(config)#
```

### **b) Création des ports Trunk**

```
SW2-Client (config)#interface range GigabitEthernet 0/7-8
SW2-client (config-if-range)#switchport mode trunk
```

```
SW2-Client#show vlan
```

### **c) Attribution des Ports au Vlans**

```
SW2-client(config)# interface range GigabitEthernet 0/1-2
SW2-client (config-if-range)#switchport access vlan 10
SW2-client(config)# interface range GigabitEthernet 0/3-4
SW2 -client(config-if-range)#switchport access vlan 20
SW2-Client(config)# interface range GigabitEthernet 0/5-6
SW2-Client(config-if-range)#switchport access vlan 30
```

## **Routage Inter-Vlans**

```
R1(config)#interface GigabitEthernet 0/0/0
```

```
R1(config-if)# no shut
```

```
R1(config)#interface GigabitEthernet 0/0/0.10
```

```
R1(config-subif)#encapsulation dot1Q 10
```

```
R1(config-subif)#ip address 172.20.0.1 255.255.255.0
```

```
R1(config-subif)#no shut
```

```
R1(config-subif)#
```

```
R1(config)#interface GigabitEthernet 0/0/0.20
```

```
R1(config-subif)#encapsulation dot1Q 20
```

```
R1(config-subif)#ip address 172.20.1.1 255.255.255.0
```

```
R1(config-subif)#no shut
```

```
R1(config-subif)#
```

```
R1(config)#interface GigabitEthernet 0/0/0.30
```

```
R1(config-subif)#encapsulation dot1Q 30
```

```
R1(config-subif)#ip address 172.20.2.1 255.255.255.128
```

```
R1(config-subif)#no shut
```

## **Configuration du NAT/PAT**

```
R1(config)#interface gigabitEthernet 0/0/1
```

```
R1(config-if)#ip address dhcp
```

```
R1(config-if)#no shut
```

```
R1(config-if)#ip nat outside
```

```
R1(config)#interface gigabitEthernet 0/0/0.10
```

```
R1(config-subif)#ip nat inside
```

```
R1(config-subif)#exit
```

```
R1(config)#interface fastEthernet 0/0.20
R1(config-subif)#ip nat inside
R1(config-subif)#exit
R1(config)#interface fastEthernet 0/0.30
R1(config-subif)#ip nat inside
R1(config-subif)#exit
R1(config)#
```

```
R1(config)#Access-list 10 permit 172.20.0.0 0.0.0.255
R1(config)#Access-list 20 permit 172.20.1.0 0.0.0.255
R1(config)#Access-list 30 permit 172.20.2.0 0.0.0.127
```

```
R1(config)#ip nat inside source list 10 interface gigabitEthernet 0/0/1 overload
R1(config)#ip nat inside source list 20 interface gigabitEthernet 0/0/1 overload
R1(config)#ip nat inside source list 30 interface gigabitEthernet 0/0/1 overload
R1(config)#
```

Route par Defaut

```
R1(config)#ip route 0.0.0.0 0.0.0.0 10.0.228.1
```