

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) Crédation des Ports Trunk

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

C) Crédation 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

```