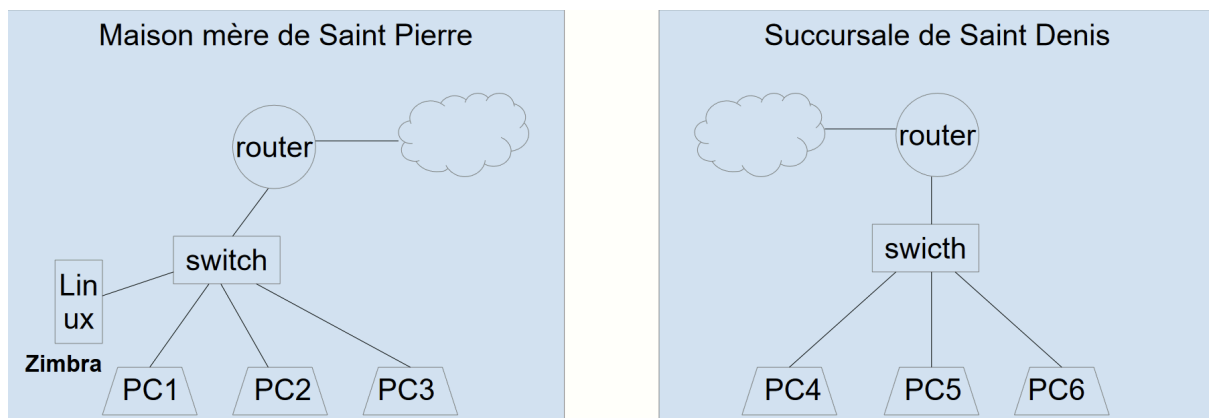# Rapport Professionnel du groupe YaeMikoSimp, composé de ALAMELOU Rohan et BOUGHLEM Bilel

PLAN DE LA TOPOLOGIE

Voici le plan de la topologie finale de notre structure de réseau :

SCRIPTS DE CONFIGURATION DES ÉQUIPEMENTS ACTIFS

Voici la configuration du switch de la maison mère :

```
enable
erase startup-config

configure terminal
hostname SWITCH1

#Configuration des VLANs
vlan 10
 name VLAN 10
exit
vlan 20
 name VLAN 20
exit
vlan 30
 name VLAN 30
exit
vlan 100
 name VLAN 100


# Configuration des interfaces VLAN

interface vlan 10
 ip address 192.168.10.2  255.255.255.0
 no shutdown
exit

interface vlan 20
 ip address 192.168.20.2 255.255.255.0
```

```
 no shutdown
exit

interface vlan 30
 ip address 192.168.30.2  255.255.255.0
 no shutdown
exit

interface vlan 100
 ip address 192.168.100.2 255.255.255.0
 no shutdown
exit


interface range Fa0/1-5
no shut
 switchport mode access
 switchport access vlan 10
exit

interface range Fa0/6-10
 switchport mode access
no shut
 switchport access vlan 20
exit

interface range Fa0/11-15
 switchport mode access
no shut
 switchport access vlan 30
exit

interface range Fa0/20
 switchport mode access
no shut
 switchport access vlan 100
exit

# Configuration de l'interface trunk

interface Gi0/1
 switchport mode trunk
 no shutdown
exit

end
write memory
```

Voici la configuration du switch de la succursale :

```
enable
erase startup-config

configure terminal
hostname SWITCH2

# Configuration des VLANs
vlan 40
 name VLAN 40
exit
vlan 50
 name VLAN 50
exit
vlan 60
 name VLAN 60
exit


# Configuration des interfaces VLAN
```

```
interface vlan 40
 ip address 192.168.40.2 255.255.255.0
 no shutdown
exit

interface vlan 50
 ip address 192.168.50.2 255.255.255.0
 no shutdown
exit

interface vlan 60
 ip address 192.168.60.2  255.255.255.0
 no shutdown
exit


interface range Fa0/1-5
no shut
 switchport mode access
 switchport access vlan 40
exit

interface range Fa0/6-10
 switchport mode access
no shut
 switchport access vlan 50
exit

interface range Fa0/11-15
 switchport mode access
no shut
 switchport access vlan 60
exit


# Configuration de l'interface trunk
interface Gi0/1
 switchport mode trunk
 no shutdown
exit

end
write memory
```

Voici la configuration du routeur de la maison mère :

```
enable
erase startup-config

configure terminal
hostname R1

interface Gi0/0/0.10
encapsulation dot1Q 10
ip address 192.168.10.1 255.255.255.0
no shutdown

interface Gi0/0/0.20
encapsulation dot1Q 20
ip address 192.168.20.1 255.255.255.0
no shutdown

interface Gi0/0/0.30
encapsulation dot1Q 30
ip address 192.168.30.1 255.255.255.0
no shutdown

interface Gi0/0/0.100
encapsulation dot1Q 100
ip address 192.168.100.1 255.255.255.0
```

```
no shutdown

interface Serial0/1/0
ip address 192.168.34.1 255.255.255.0
no shutdown
exit

ip route 192.168.60.0 255.255.255.0 192.168.34.2
ip route 192.168.40.0 255.255.255.0 192.168.34.2
ip route 192.168.50.0 255.255.255.0 192.168.34.2

ip dhcp pool VLAN10
network 192.168.10.0 255.255.255.0
default-router 192.168.10.1
dns-server 8.8.8.8

ip dhcp pool VLAN20
network 192.168.20.0 255.255.255.0
default-router 192.168.20.1
dns-server 8.8.8.8

ip dhcp pool VLAN30
network 192.168.30.0 255.255.255.0
default-router 192.168.30.1
dns-server 8.8.8.8

ip dhcp pool VLAN100
network 192.168.100.0 255.255.255.0
default-router 192.168.100.1
dns-server 8.8.8.8
end

write memory
```

Voici la configuration du routeur de la succursale :

```
configure terminal
hostname R2

interface Gi0/0/0.40
encapsulation dot1Q 40
ip address 192.168.40.1 255.255.255.0
no shutdown

interface Gi0/0/0.50
encapsulation dot1Q 50
ip address 192.168.50.1 255.255.255.0
no shutdown

interface Gi0/0/0.60
encapsulation dot1Q 60
ip address 192.168.60.1 255.255.255.0
no shutdown

interface Gi0/0/0.100
encapsulation dot1Q 100
ip address 192.168.100.1 255.255.255.0
no shutdown

interface Serial0/1/0
ip address 192.168.34.1 255.255.255.0
no shutdown
exit

ip route 192.168.10.0 255.255.255.0 192.168.34.1
ip route 192.168.20.0 255.255.255.0 192.168.34.1
ip route 192.168.30.0 255.255.255.0 192.168.34.1
ip route 192.168.100.0 255.255.255.0 192.168.34.1

ip dhcp pool VLAN40
network 192.168.40.0 255.255.255.0
```

default-router 192.168.40.1
dns-server 8.8.8.8

ip dhcp pool VLAN50
network 192.168.50.0 255.255.255.0
default-router 192.168.50.1
dns-server 8.8.8.8

ip dhcp pool VLAN60
network 192.168.60.0 255.255.255.0
default-router 192.168.60.1
dns-server 8.8.8.8

end
write memory

LES SERVICES OFFERTS PAR NOTRE SERVEUR SONT :

- Samba

Et

- Moodle

PLAN D'ADRESSAGE IP

Vlan	Exemple de Machine	Adresse de Réseau	Plage d'adresses
Vlan 10	PC1	192.168.10.0	192.168.10.2 - 192.168.10.254
Vlan 20	PC2	192.168.20.0	192.168.20.2 - 192.168.20.254
Vlan 30	PC3	192.168.30.0	192.168.30.2 - 192.168.30.254
Vlan 40	PC4	192.168.40.0	192.168.40.2 - 192.168.40.254
Vlan 50	PC5	192.168.50.0	192.168.50.2 - 192.168.50.254
Vlan 60	PC6	192.168.60.0	192.168.60.2 - 192.168.60.254
Vlan 100	Serveur Linux	192.168.100.0	192.168.100.2 - 192.168.100.254