

Configuration du Switch L2L3 :

```
!  
hostname SWR-1  
!  
!  
!  
spanning-tree mode rapid-pvst  
spanning-tree extend system-id  
!  
!  
!  
!  
!  
!  
ip routing  
!  
!  
!  
!  
!  
ip dhcp excluded-address 192.168.12.1  
ip dhcp excluded-address 192.168.14.1  
ip dhcp excluded-address 192.168.16.1  
ip dhcp excluded-address 192.168.18.1  
ip dhcp excluded-address 192.168.19.1  
ip dhcp excluded-address 192.168.99.1  
!  
ip dhcp pool VLAN120  
  network 192.168.12.0 255.255.255.192  
  default-router 192.168.12.1  
  dns-server 192.168.12.1  
!  
ip dhcp pool VLAN140  
  network 192.168.14.0 255.255.255.192  
  default-router 192.168.14.1  
  dns-server 192.168.14.1  
!  
ip dhcp pool VLAN160  
  network 192.168.16.0 255.255.255.192  
  default-router 192.168.16.1  
  dns-server 192.168.16.1  
!  
ip dhcp pool VLAN180  
  network 192.168.18.0 255.255.255.192  
  default-router 192.168.18.1  
  dns-server 192.168.18.1  
!  
ip dhcp pool VLAN190  
  network 192.168.19.0 255.255.255.192  
  default-router 192.168.19.1  
  dns-server 192.168.19.1  
!  
!  
!  
login on-success log  
vtp version 1  
!  
!  
!  
!  
!  
!  
interface GigabitEthernet0/0
```

```
vrf forwarding Mgmt-vrf
no ip address
shutdown
negotiation auto
!
interface GigabitEthernet1/0/1
description lien agrege vers le switch 1
switchport mode trunk
speed 1000
duplex full
!
interface GigabitEthernet1/0/2
description lien agrege vers le switch 2
switchport mode trunk
speed 100
duplex full
!
interface GigabitEthernet1/0/3
description lien agrege vers le switch 1
switchport mode trunk
speed 1000
duplex full
!
interface GigabitEthernet1/0/4
description lien agrege vers le switch 2
switchport mode trunk
speed 100
duplex full
!
interface GigabitEthernet1/0/5
description services logiciels
switchport access vlan 100
switchport mode access
!
interface GigabitEthernet1/0/6
description services logiciels
switchport access vlan 100
switchport mode access
!
interface GigabitEthernet1/0/7
description services logiciels
switchport access vlan 100
switchport mode access
!
interface GigabitEthernet1/0/8
description comptabilite
switchport access vlan 120
!
interface GigabitEthernet1/0/9
description comptabilite
switchport access vlan 120
!
interface GigabitEthernet1/0/10
description comptabilite
switchport access vlan 120
speed 100
duplex full
!
interface GigabitEthernet1/0/11
description administratif
switchport access vlan 140
!
interface GigabitEthernet1/0/12
description administratif
```

```

switchport access vlan 140
!
interface GigabitEthernet1/0/13
description administratif
switchport access vlan 140
!
interface GigabitEthernet1/0/14
description vente
switchport access vlan 160
!
interface GigabitEthernet1/0/15
description vente
switchport access vlan 160
!
interface GigabitEthernet1/0/16
description vente
switchport access vlan 160
speed 100
duplex full
!
interface GigabitEthernet1/0/17
description supervision
switchport access vlan 180
!
interface GigabitEthernet1/0/18
description supervision
switchport access vlan 180
!
interface GigabitEthernet1/0/19
description supervision
switchport access vlan 180
!
interface GigabitEthernet1/0/20
description administration informatique
switchport access vlan 190
!
interface GigabitEthernet1/0/21
description administration informatique
switchport access vlan 190
!
interface GigabitEthernet1/0/22
description administration informatique
switchport access vlan 190
!
interface GigabitEthernet1/0/23
description port non utilise
switchport access vlan 200
switchport trunk native vlan 999
!
interface GigabitEthernet1/0/24
description port non utilise
switchport access vlan 200
switchport trunk native vlan 999
!
interface GigabitEthernet1/1/1
!
interface GigabitEthernet1/1/2
!
interface GigabitEthernet1/1/3
!
interface GigabitEthernet1/1/4
!
interface AppGigabitEthernet1/0/1
!

```

```
interface Vlan1
  no ip address
!
interface Vlan100
  description VLAN services logiciels
  ip address 192.168.10.1 255.255.255.192
!
interface Vlan120
  description VLAN comptabilite
  ip address 192.168.12.1 255.255.255.192
!
interface Vlan140
  description VLAN Administratif
  ip address 192.168.14.1 255.255.255.192
!
interface Vlan160
  description VLAN Vente
  ip address 192.168.16.1 255.255.255.192
!
interface Vlan180
  description VLAN Supervision
  ip address 192.168.18.1 255.255.255.192
!
interface Vlan190
  description VLAN Administration Informatique
  ip address 192.168.19.1 255.255.255.192
!
interface Vlan999
  description vlan natif et vlan pour ports non autorises
  ip address 192.168.99.1 255.255.255.192
!
ip forward-protocol nd
ip http server
ip http authentication local
ip http secure-server
!
!
!
!
!
!
control-plane
  service-policy input system-cpp-policy
!
!
line con 0
  stopbits 1
line vty 0 4
  login
  transport input ssh
line vty 5 31
  login
  transport input ssh
!
end
```

Configuration du Switch 1 :

```
!  
hostname Switch1  
!  
!  
spanning-tree mode rapid-pvst  
spanning-tree extend system-id  
!  
!  
!  
vlan internal allocation policy ascending  
!  
!  
!  
interface FastEthernet0  
  no ip address  
!  
interface GigabitEthernet1/0/1  
  description lien agrege vers le SWR (switch route)  
  switchport mode trunk  
  speed 1000  
  duplex full  
!  
interface GigabitEthernet1/0/2  
  description lien agrege vers le switch 2  
  switchport mode trunk  
  speed 100  
  duplex full  
!  
interface GigabitEthernet1/0/3  
  description lien agrege vers le SWR (switch route)  
  switchport mode trunk  
  speed 1000  
  duplex full  
!  
interface GigabitEthernet1/0/4  
  description lien agrege vers le switch 2  
  switchport mode trunk  
  speed 100  
  duplex full  
!  
interface GigabitEthernet1/0/5  
  description services logiciels  
  switchport access vlan 100  
  switchport mode access  
!  
interface GigabitEthernet1/0/6  
  description services logiciels  
  switchport access vlan 100  
  switchport mode access  
!  
interface GigabitEthernet1/0/7  
  description services logiciels  
  switchport access vlan 100  
  switchport mode access  
!  
interface GigabitEthernet1/0/8  
  description comptabilite  
  switchport access vlan 120
```

```
!  
interface GigabitEthernet1/0/9  
  description comptabilite  
  switchport access vlan 120  
!  
interface GigabitEthernet1/0/10  
  description comptabilite  
  switchport access vlan 120  
  speed 100  
  duplex full  
!  
interface GigabitEthernet1/0/11  
  description administratif  
  switchport access vlan 140  
!  
interface GigabitEthernet1/0/12  
  description administratif  
  switchport access vlan 140  
!  
interface GigabitEthernet1/0/13  
  description administratif  
  switchport access vlan 140  
!  
interface GigabitEthernet1/0/14  
  description vente  
  switchport access vlan 160  
!  
interface GigabitEthernet1/0/15  
  description vente  
  switchport access vlan 160  
!  
interface GigabitEthernet1/0/16  
  description vente  
  switchport access vlan 160  
  speed 100  
  duplex full  
!  
interface GigabitEthernet1/0/17  
  description supervision  
  switchport access vlan 180  
!  
interface GigabitEthernet1/0/18  
  description supervision  
  switchport access vlan 180  
!  
interface GigabitEthernet1/0/19  
  description supervision  
  switchport access vlan 180  
!  
interface GigabitEthernet1/0/20  
  description administration informatique  
  switchport access vlan 190  
!  
interface GigabitEthernet1/0/21  
  description administration informatique  
  switchport access vlan 190  
!  
interface GigabitEthernet1/0/22  
  description administration informatique  
  switchport access vlan 190  
!  
interface GigabitEthernet1/0/23  
  description port non utilise  
  switchport access vlan 200
```

```
switchport trunk native vlan 999
!
interface GigabitEthernet1/0/24
description port non utilise
switchport access vlan 200
switchport trunk native vlan 999
!
interface GigabitEthernet1/0/25
!
interface GigabitEthernet1/0/26
!
interface GigabitEthernet1/0/27
!
interface GigabitEthernet1/0/28
!
interface Vlan1
no ip address
shutdown
!
interface Vlan100
description VLAN services logiciels
ip address 192.168.10.1 255.255.255.192
no shutdown
!
interface Vlan120
description VLAN comptabilite
ip address 192.168.12.1 255.255.255.192
no shutdown
!
interface Vlan140
description VLAN Administratif
ip address 192.168.14.1 255.255.255.192
no shutdown
!
interface Vlan160
description VLAN Vente
ip address 192.168.16.1 255.255.255.192
no shutdown
!
interface Vlan180
description VLAN Supervision
ip address 192.168.18.1 255.255.255.192
no shutdown
!
interface Vlan190
description VLAN Administration Informatique
ip address 192.168.19.1 255.255.255.192
no shutdown
!
interface Vlan999
description vlan natif et vlan pour ports non autorises
ip address 192.168.99.1 255.255.255.192
no shutdown
!
```

Configuration du Switch 2 :

```
!  
hostname Switch2  
!  
!  
spanning-tree mode rapid-pvst  
spanning-tree extend system-id  
!  
!  
!  
!  
vlan internal allocation policy ascending  
!  
!  
!  
interface FastEthernet0  
    no ip address  
  
!  
interface GigabitEthernet1/0/1  
    description lien agrege vers le SWR (switch route)  
    switchport mode trunk  
    speed 1000  
    duplex full  
!  
interface GigabitEthernet1/0/2  
    description lien agrege vers le switch 1  
    switchport mode trunk  
    speed 100  
    duplex full  
!  
interface GigabitEthernet1/0/3  
    description lien agrege vers le SWR (switch route)  
    switchport mode trunk  
    speed 1000  
    duplex full  
!  
interface GigabitEthernet1/0/4  
    description lien agrege vers le switch 1  
    switchport mode trunk  
    speed 100  
    duplex full  
!  
interface GigabitEthernet1/0/5  
    description services logiciels  
    switchport access vlan 100  
    switchport mode access  
!  
interface GigabitEthernet1/0/6  
    description services logiciels  
    switchport access vlan 100  
    switchport mode access  
!  
interface GigabitEthernet1/0/7  
    description services logiciels  
    switchport access vlan 100  
    switchport mode access  
!  
interface GigabitEthernet1/0/8  
    description comptabilite  
    switchport access vlan 120
```



```
!  
interface GigabitEthernet1/0/9  
  description comptabilite  
  switchport access vlan 120  
!  
interface GigabitEthernet1/0/10  
  description comptabilite  
  switchport access vlan 120  
  speed 100  
  duplex full  
!  
interface GigabitEthernet1/0/11  
  description administratif  
  switchport access vlan 140  
!  
interface GigabitEthernet1/0/12  
  description administratif  
  switchport access vlan 140  
!  
interface GigabitEthernet1/0/13  
  description administratif  
  switchport access vlan 140  
!  
interface GigabitEthernet1/0/14  
  description vente  
  switchport access vlan 160  
!  
interface GigabitEthernet1/0/15  
  description vente  
  switchport access vlan 160  
!  
interface GigabitEthernet1/0/16  
  description vente  
  switchport access vlan 160  
  speed 100  
  duplex full  
!  
interface GigabitEthernet1/0/17  
  description supervision  
  switchport access vlan 180  
!  
interface GigabitEthernet1/0/18  
  description supervision  
  switchport access vlan 180  
!  
interface GigabitEthernet1/0/19  
  description supervision  
  switchport access vlan 180  
!  
interface GigabitEthernet1/0/20  
  description administration informatique  
  switchport access vlan 190  
!  
interface GigabitEthernet1/0/21  
  description administration informatique  
  switchport access vlan 190  
!  
interface GigabitEthernet1/0/22  
  description administration informatique  
  switchport access vlan 190  
!  
interface GigabitEthernet1/0/23  
  description port non utilise  
  switchport access vlan 200
```

```
switchport trunk native vlan 999
!
interface GigabitEthernet1/0/24
description port non utilise
switchport access vlan 200
switchport trunk native vlan 999
!
interface GigabitEthernet1/0/25
!
interface GigabitEthernet1/0/26
!
interface GigabitEthernet1/0/27
!
interface GigabitEthernet1/0/28
!
interface Vlan1
no ip address
shutdown
!
interface Vlan100
description VLAN services logiciels
ip address 192.168.10.1 255.255.255.192
no shutdown
!
interface Vlan120
description VLAN comptabilite
ip address 192.168.12.1 255.255.255.192
no shutdown
!
interface Vlan140
description VLAN Administratif
ip address 192.168.14.1 255.255.255.192
no shutdown
!
interface Vlan160
description VLAN Vente
ip address 192.168.16.1 255.255.255.192
no shutdown
!
interface Vlan180
description VLAN Supervision
ip address 192.168.18.1 255.255.255.192
no shutdown
!
interface Vlan190
description VLAN Administration Informatique
ip address 192.168.19.1 255.255.255.192
no shutdown
!
interface Vlan999
description vlan natif et vlan pour ports non autorises
ip address 192.168.99.1 255.255.255.192
no shutdown
!
!
```

Configuration du Routeur :

```
!  
hostname R1  
!  
!  
interface GigabitEthernet0/0  
description Lien vers le L2 L3  
ip address 192.168.0.1 255.255.255.252  
ip nat outside  
ip virtual-reassembly in  
duplex half  
speed 1000  
!  
!  
interface GigabitEthernet0/1  
description Lien vers la Box  
ip address 192.168.111.1 255.255.255.0  
ip nat inside  
ip virtual-reassembly in  
duplex half  
speed 1000  
!
```