



Impact Influence

## Configuration des équipements

### 1. Plan d'adressage IP :

<b>WAN</b>				
<b>IPv4</b>				
132.186.32.32/27				
<b>Équipement</b>	<b>Sous-Réseau</b>	<b>Adresses utilisables</b>	<b>Adresse de broadcast</b>	
Routeur Bleu-Rouge	132.186.32.32/30	132.186.32.33 / 132.186.32.34	132.186.32.35	
Routeur Vert-Bleu	132.186.32.36/30	132.186.32.37 / 132.186.32.38	132.186.32.39	
Routeur Rouge-Vert	132.186.32.40/30	132.186.32.41 / 132.186.32.42	132.186.32.43	
<b>IPv6</b>				
<b>Équipement</b>	<b>Sous-Réseau</b>	<b>Adresses utilisables</b>	<b>Préfixe</b>	<b>Flink Local</b>
Routeur Bleu-Rouge	2001:0:CAFE:7::/64	2001:0:CAFE:7::1 / 2001:0:CAFE:7::2	/64	fe80::3
Routeur Vert-Bleu	2001:0:CAFE:6::/64	2001:0:CAFE:6::1 / 2001:0:CAFE:6::2	/64	fe80::2
Routeur Rouge-Vert	2001:0:CAFE:8::/64	2001:0:CAFE:8::1 / 2001:0:CAFE:8::2	/64	fe80::1

<b>Bâtiment Vert</b>				
<b>IPv4</b>				
<b>Équipement</b>	<b>Adresse IP</b>	<b>Masque de sous-réseau</b>	<b>Passerelle par défaut</b>	<b>Plage DHCP</b>
Routeur (interface 1)	192.168.5.1	255.255.255.0	N/A	N/A
Routeur (interface 2)	192.168.2.1	255.255.255.0	N/A	N/A
Switch 1 (Serveur Web)	192.168.5.2	255.255.255.0	192.168.1.1	192.168.1.100 - 192.168.1.200
Switch 2 (Réunion)	192.168.2.2	255.255.255.0	192.168.2.1	192.168.2.100 - 192.168.2.200
Serveur Web	192.168.5.10	255.255.255.0	192.168.5.1	N/A
<b>IPv6</b>				
<b>Équipement</b>	<b>Adresse IPv6 Globale</b>	<b>Adresse IPv6 Link-local</b>	<b>Préfixe</b>	
Routeur (interface 1)	2001:0:CAFE:5::1	FE80::1	/64	
Routeur (interface 2)	2001:0:CAFE:2::1	FE80::1	/64	
Switch 1 (Serveur Web)	2001:0:CAFE:5::2	FE80::2	/64	
Switch 2 (Réunion)	2001:0:CAFE:2::2	FE80::2	/64	
Serveur Web	2001:0:CAFE:5::10	FE80::10	/64	

Bâtiment Bleu				
IPv4				
Équipement	Adresse IP	Masque de sous-réseau	Passerelle par défaut	Plage DHCP
Routeur (interface 1)	192.168.3.1	255.255.255.0	N/A	N/A
Routeur (interface 2)	192.168.4.1	255.255.255.0	N/A	N/A
Switch 1 (Accueil)	192.168.3.2	255.255.255.0	192.168.3.1	192.168.3.100 - 192.168.3.200
Switch 2 (Showroom)	192.168.4.2	255.255.255.0	192.168.4.1	192.168.4.100 - 192.168.4.200

IPv6			
Équipement	Adresse IPv6 Globale	Adresse IPv6 Link-local	Préfixe
Routeur (interface 1)	2001:0:CAFE:3::1	FE80::1	/64
Routeur (interface 2)	2001:0:CAFE:4::1	FE80::1	/64
Switch 1 (Accueil)	2001:0:CAFE:3::2	FE80::2	/64
Switch 2 (Showroom)	2001:0:CAFE:4::2	FE80::2	/64

Bâtiment rouge						
IPv4						
Équipements réseau principaux						

Équipement	Adresse IP	Masque de sous-réseau	Passerelle par défaut	Plage DHCP
SW-RED-CORE	192.168.100.1	255.255.255.0	N/A	N/A
SW-RED-DIST-1	192.168.100.2	255.255.255.0	192.168.100.1	N/A
SW-RED-DIST-2	192.168.100.3	255.255.255.0	192.168.100.1	N/A
Routeur Rouge	192.168.1.1	255.255.255.0	N/A	N/A

Interfaces VLAN sur les Distributed Layer 3						
Switch	VLAN 10 (DNS)	VLAN 20 (Info)	VLAN 30 (Finance)	VLAN 40 (Commercial)	VLAN 50 (RH)	VLAN 60 (Direction)
SW-RED-DIST-1	192.168.10.2	192.168.20.2	192.168.30.2	192.168.40.2	192.168.50.2	192.168.60.2
SW-RED-DIST-2	192.168.10.3	192.168.20.3	192.168.30.3	192.168.40.3	192.168.50.3	192.168.60.3

Configuration des VLANs et sous-réseaux				
VLAN	Sous-réseau	Masque de sous-réseau	Passerelle par défaut	Plage DHCP
1 (Interconnexion Routeur-Switch)	192.168.1.0/24	255.255.255.0	192.168.1.1	N/A
10 (DNS)	192.168.10.0/24	255.255.255.0	192.168.10.1	N/A
20 (Informatique)	192.168.20.0/24	255.255.255.0	192.168.20.1	192.168.20.10-200
30 (Finance)	192.168.30.0/24	255.255.255.0	192.168.30.1	192.168.30.10-200
40 (Commercial)	192.168.40.0/24	255.255.255.0	192.168.40.1	192.168.40.10-200
50 (RH)	192.168.50.0/24	255.255.255.0	192.168.50.1	192.168.50.10-200
60 (Direction)	192.168.60.0/24	255.255.255.0	192.168.60.1	192.168.60.10-200
100 (Admin Système)	192.168.100.0/24	255.255.255.0	192.168.100.1	N/A

#### Adresses SW-RED-CORE dans chaque VLAN

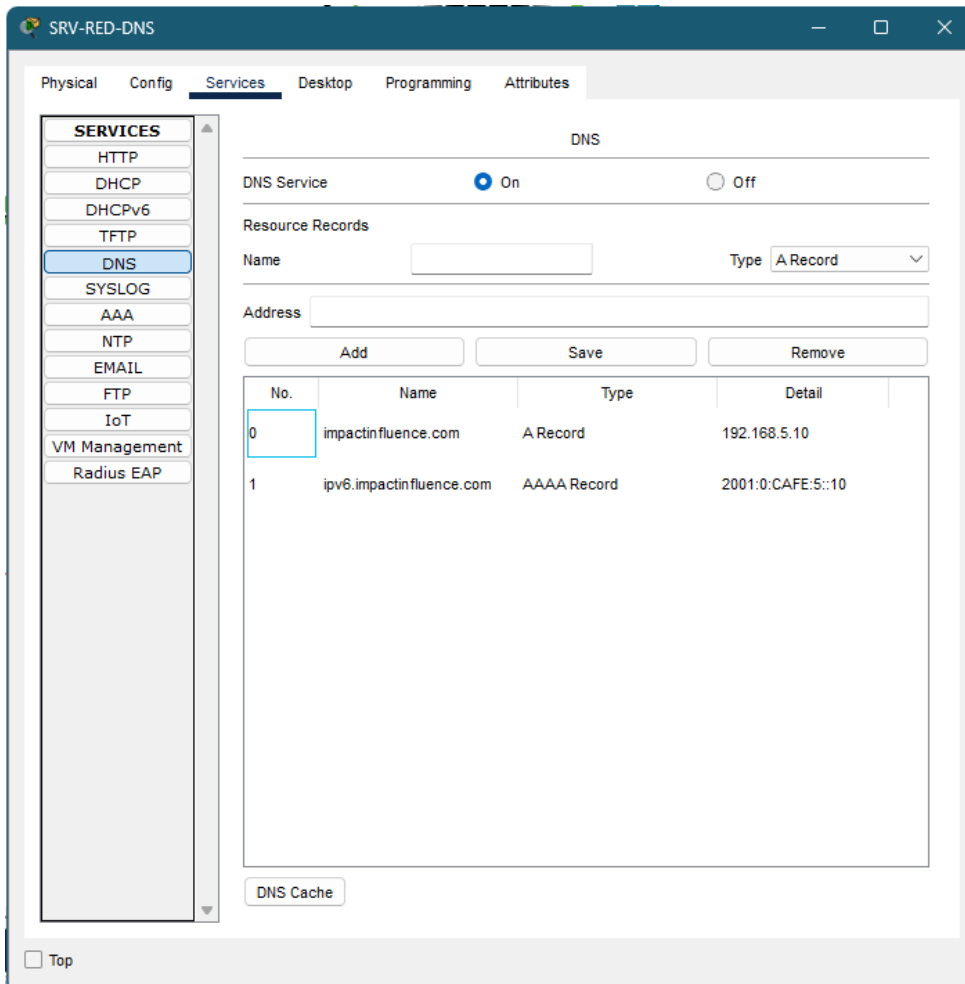
VLAN	Adresse IP
VLAN 1	192.168.1.2
VLAN 10	192.168.10.1
VLAN 20	192.168.20.1
VLAN 30	192.168.30.1
VLAN 40	192.168.40.1
VLAN 50	192.168.50.1
VLAN 60	192.168.60.1
VLAN 100	192.168.100.1

#### Adresse statique du serveur DNS

Équipement	Adresse IP	Masque de sous-réseau	Passerelle par défaut	Plage DHCP
Serveur DNS	192.168.10.10	255.255.255.0	192.168.10.2	N/A

IPv6						
Équipements réseau principaux						
Équipement	Adresse IPv6 Globale	Adresse IPv6 Link-local	Préfixe			
SW-RED-CORE	2001:0:CAFE:100::1	FE80::4	/64			
SW-RED-DIST-1	2001:0:CAFE:100::2	FE80::2	/64			
SW-RED-DIST-2	2001:0:CAFE:100::3	FE80::3	/64			
Routeur Rouge	2001:0:CAFE:1::1	FE80::1	/64			
Interfaces VLAN sur les Distributed Layer 3						
Switch	VLAN 10 (DNS)	VLAN 20 (Info)	VLAN 30 (Finance)	VLAN 40 (Commercial)	VLAN 50 (RH)	VLAN 60 (Direction)
SW-RED-DIST-1	2001:0:CAFE:10::2	2001:0:CAFE:20::2	2001:0:CAFE:30::2	2001:0:CAFE:40::2	2001:0:CAFE:50::2	2001:0:CAFE:60::2
SW-RED-DIST-2	2001:0:CAFE:10::3	2001:0:CAFE:20::3	2001:0:CAFE:30::3	2001:0:CAFE:40::3	2001:0:CAFE:50::3	2001:0:CAFE:60::3
Configuration des VLANs et sous-réseaux						
VLAN	Préfixe IPv6	Passerelle par défaut				
1 (Interconnexion Routeur-Switch)	2001:0:CAFE:1::/64	2001:0:CAFE:1::1				
10 (DNS)	2001:0:CAFE:10::/64	2001:0:CAFE:10::1				
20 (Informatique)	2001:0:CAFE:20::/64	2001:0:CAFE:20::1				
30 (Finance)	2001:0:CAFE:30::/64	2001:0:CAFE:30::1				
40 (Commercial)	2001:0:CAFE:40::/64	2001:0:CAFE:40::1				
50 (RH)	2001:0:CAFE:50::/64	2001:0:CAFE:50::1				
60 (Direction)	2001:0:CAFE:60::/64	2001:0:CAFE:60::1				
100 (Admin Système)	2001:0:CAFE:100::/64	2001:0:CAFE:100::1				
Adresses SW-RED-CORE dans chaque VLAN						
VLAN	Adresse IPv6					
VLAN 1	2001:0:CAFE:1::2					
VLAN 10	2001:0:CAFE:10::1					
VLAN 20	2001:0:CAFE:20::1					
VLAN 30	2001:0:CAFE:30::1					
VLAN 40	2001:0:CAFE:40::1					
VLAN 50	2001:0:CAFE:50::1					
VLAN 60	2001:0:CAFE:60::1					
VLAN 100	2001:0:CAFE:100::1					
Adresse statique du serveur DNS						
Équipement	Adresse IPv6 Globale	Adresse IPv6 Link-local	Préfixe			
Serveur DNS	2001:0:CAFE:10::10	FE80::10	/64			

2. Configuration DNS :



### 3. Configuration des routeurs (comprenant les tables de routage, les sous-interfaces et les NAT) :

Bâtiment Bleu :

```
R-BLUE#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

 132.186.0.0/16 is variably subnetted, 5 subnets, 2 masks
C       132.186.32.32/30 is directly connected, Serial0/0/0
L       132.186.32.33/32 is directly connected, Serial0/0/0
C       132.186.32.36/30 is directly connected, Serial0/0/1
L       132.186.32.37/32 is directly connected, Serial0/0/1
R       132.186.32.40/30 [120/1] via 132.186.32.34, 00:00:15, Serial0/0/0
        [120/1] via 132.186.32.38, 00:00:05, Serial0/0/1
R       192.168.2.0/24 [120/1] via 132.186.32.38, 00:00:05, Serial0/0/1
 192.168.3.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.3.0/24 is directly connected, GigabitEthernet0/0
L       192.168.3.1/32 is directly connected, GigabitEthernet0/0
 192.168.4.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.4.0/24 is directly connected, GigabitEthernet0/1
L       192.168.4.1/32 is directly connected, GigabitEthernet0/1
R       192.168.5.0/24 [120/1] via 132.186.32.38, 00:00:05, Serial0/0/1
```

```

interface GigabitEthernet0/0
 ip address 192.168.3.1 255.255.255.0
 duplex auto
 speed auto
 ipv6 address FE80::1 link-local
 ipv6 address 2001:0:CAFE:3::1/64
 ipv6 rip BLUE-RIPNG enable
 ipv6 enable
!
interface GigabitEthernet0/1
 ip address 192.168.4.1 255.255.255.0
 duplex auto
 speed auto
 ipv6 address FE80::1 link-local
 ipv6 address 2001:0:CAFE:4::1/64
 ipv6 rip BLUE-RIPNG enable
 ipv6 enable
!
interface Serial0/0/0
 ip address 132.186.32.33 255.255.255.252
 ipv6 address FE80::3 link-local
 ipv6 address 2001:0:CAFE:7::1/64
 ipv6 rip BLUE-RIPNG enable
 ipv6 enable
 clock rate 2000000
!
interface Serial0/0/1
 ip address 132.186.32.37 255.255.255.252
 ipv6 address FE80::3 link-local
 ipv6 address 2001:0:CAFE:6::1/64
 ipv6 rip BLUE-RIPNG enable
 ipv6 enable
!
interface Vlan1
 no ip address
 shutdown
!
router rip
 version 2
 network 132.186.0.0
 network 192.168.3.0
 network 192.168.4.0
 no auto-summary
!
ipv6 router rip BLUE-RIPNG
!
ip classless
!
ip flow-export version 9
!
ipv6 route ::/0 Serial0/0/0 FE80::1
!

```

Bâtiment Rouge :

R-RED>show ip route

Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP  
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area  
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2  
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP  
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area  
\* - candidate default, U - per-user static route, o - ODR  
P - periodic downloaded static route

Gateway of last resort is not set

132.186.0.0/16 is variably subnetted, 5 subnets, 2 masks  
C 132.186.32.32/30 is directly connected, Serial0/0/0  
L 132.186.32.34/32 is directly connected, Serial0/0/0  
R 132.186.32.36/30 [120/1] via 132.186.32.33, 00:00:05, Serial0/0/0  
[120/1] via 132.186.32.41, 00:00:25, Serial0/0/1  
C 132.186.32.40/30 is directly connected, Serial0/0/1  
L 132.186.32.42/32 is directly connected, Serial0/0/1  
S 192.168.0.0/16 [1/0] via 192.168.1.2  
192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks  
C 192.168.1.0/24 is directly connected, GigabitEthernet0/0  
L 192.168.1.1/32 is directly connected, GigabitEthernet0/0  
R 192.168.2.0/24 [120/1] via 132.186.32.41, 00:00:25, Serial0/0/1  
R 192.168.3.0/24 [120/1] via 132.186.32.33, 00:00:05, Serial0/0/0  
R 192.168.4.0/24 [120/1] via 132.186.32.33, 00:00:05, Serial0/0/0  
R 192.168.5.0/24 [120/1] via 132.186.32.41, 00:00:25, Serial0/0/1

```

interface GigabitEthernet0/0
  description Vers_SW-RED-CORE
  ip address 192.168.1.1 255.255.255.0
  ip nat inside
  duplex auto
  speed auto
  ipv6 address FE80::1 link-local
  ipv6 address 2001:0:CAFE:1::1/64
  ipv6 rip RED-RIPNG enable
!
interface GigabitEthernet0/1
  no ip address
  duplex auto
  speed auto
  shutdown
!
interface Serial10/0/0
  description Vers_R-BLEU
  ip address 132.186.32.34 255.255.255.252
  ip nat outside
  ipv6 address FE80::3 link-local
  ipv6 address 2001:0:CAFE:7::2/64
  ipv6 rip RED-RIPNG enable
!
interface Serial10/0/1
  description Vers_R-VERT
  ip address 132.186.32.42 255.255.255.252
  ip nat outside
  ipv6 address FE80::1 link-local
  ipv6 address 2001:0:CAFE:3::2/64
  ipv6 address 2001:0:CAFE:8::1/64
  ipv6 rip RED-RIPNG enable
  clock rate 2000000
!
interface Vlan1
  no ip address
  ipv6 address FE80::4 link-local
  shutdown
!
router rip
  version 2
  network 132.186.0.0
  no auto-summary
!
ipv6 router rip RED-RIPNG
!
ip nat inside source list 10 interface Serial10/0/1 overload
ip classless
ip route 192.168.0.0 255.255.0.0 192.168.1.2
!
ip flow-export version 9
!
ipv6 route 2001:0:CAFE:10::/64 2001:0:CAFE:1::2
ipv6 route 2001:0:CAFE:20::/64 2001:0:CAFE:1::2
ipv6 route 2001:0:CAFE:30::/64 2001:0:CAFE:1::2
ipv6 route 2001:0:CAFE:40::/64 2001:0:CAFE:1::2
ipv6 route 2001:0:CAFE:50::/64 2001:0:CAFE:1::2
ipv6 route 2001:0:CAFE:60::/64 2001:0:CAFE:1::2
!
access-list 10 permit 192.168.1.0 0.0.0.255
access-list 10 permit 192.168.10.0 0.0.0.255
access-list 10 permit 192.168.20.0 0.0.0.255
access-list 10 permit 192.168.30.0 0.0.0.255
access-list 10 permit 192.168.40.0 0.0.0.255
access-list 10 permit 192.168.50.0 0.0.0.255
access-list 10 permit 192.168.60.0 0.0.0.255
access-list 10 permit 192.168.100.0 0.0.0.255

```

Bâtiment Vert :

```
R-GREEN#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
```

```
Gateway of last resort is not set
```

```

    132.186.0.0/16 is variably subnetted, 5 subnets, 2 masks
R       132.186.32.32/30 [120/1] via 132.186.32.42, 00:00:19, Serial0/0/0
        [120/1] via 132.186.32.37, 00:00:22, Serial0/0/1
C       132.186.32.36/30 is directly connected, Serial0/0/1
L       132.186.32.38/32 is directly connected, Serial0/0/1
C       132.186.32.40/30 is directly connected, Serial0/0/0
L       132.186.32.41/32 is directly connected, Serial0/0/0
    192.168.2.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.2.0/24 is directly connected, GigabitEthernet0/1
L       192.168.2.1/32 is directly connected, GigabitEthernet0/1
R       192.168.3.0/24 [120/1] via 132.186.32.37, 00:00:22, Serial0/0/1
R       192.168.4.0/24 [120/1] via 132.186.32.37, 00:00:22, Serial0/0/1
    192.168.5.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.5.0/24 is directly connected, GigabitEthernet0/0
L       192.168.5.1/32 is directly connected, GigabitEthernet0/0
```



```

.
interface GigabitEthernet0/0
 ip address 192.168.5.1 255.255.255.0
 duplex auto
 speed auto
 ipv6 address FE80::1 link-local
 ipv6 address 2001:0:CAFE:5::1/64
 ipv6 rip GREEN-RIPNG enable
 ipv6 enable
!
interface GigabitEthernet0/1
 ip address 192.168.2.1 255.255.255.0
 duplex auto
 speed auto
 ipv6 address FE80::1 link-local
 ipv6 address 2001:0:CAFE:2::1/64
 ipv6 rip GREEN-RIPNG enable
 ipv6 enable
!
interface Serial0/0/0
 ip address 132.186.32.41 255.255.255.252
 ipv6 address FE80::2 link-local
 ipv6 address 2001:0:CAFE:8::2/64
 ipv6 rip GREEN-RIPNG enable
 ipv6 enable
!
interface Serial0/0/1
 ip address 132.186.32.38 255.255.255.252
 ipv6 address FE80::2 link-local
 ipv6 address 2001:0:CAFE:6::2/64
 ipv6 rip GREEN-RIPNG enable
 ipv6 enable
 clock rate 2000000
!
interface Vlan1
 no ip address
 shutdown
!
router rip
 version 2
 network 132.186.0.0
 network 192.168.2.0
 network 192.168.5.0
 no auto-summary
!
ipv6 router rip GREEN-RIPNG
!
ip classless
!
ip flow-export version 9
!
ipv6 route ::/0 Serial0/0/0 FE80::1
!
.

```

#### 4. Configuration des switches (comprenant les paramètres DHCP, les VLAN, le LACP et les ACL) :

##### 4.1 Configuration des switches de type layer 3 :

Switch Core :

SW-RED-CORE#show ip route

Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP  
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area  
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2  
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP  
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area  
\* - candidate default, U - per-user static route, o - ODR  
P - periodic downloaded static route

Gateway of last resort is 192.168.1.1 to network 0.0.0.0

C 192.168.1.0/24 is directly connected, Vlan1  
C 192.168.10.0/24 is directly connected, Vlan10  
C 192.168.20.0/24 is directly connected, Vlan20  
C 192.168.30.0/24 is directly connected, Vlan30  
C 192.168.40.0/24 is directly connected, Vlan40  
C 192.168.50.0/24 is directly connected, Vlan50  
C 192.168.60.0/24 is directly connected, Vlan60  
C 192.168.100.0/24 is directly connected, Vlan100  
S\* 0.0.0.0/0 [1/0] via 192.168.1.1

```

SW-RED-CORE#show ipv6 route
IPv6 Routing Table - 18 entries
Codes: C - Connected, L - Local, S - Static, R - RIP, B - BGP
        U - Per-user Static route, M - MIPv6
        I1 - ISIS L1, I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary
        ND - ND Default, NDp - ND Prefix, DCE - Destination, NDr - Redirect
        O - OSPF intra, OI - OSPF inter, OE1 - OSPF ext 1, OE2 - OSPF ext 2
        ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2
        D - EIGRP, EX - EIGRP external
S   ::/0 [1/0]
    via 2001:0:CAFE:1::1
C   2001:0:CAFE:1::/64 [0/0]
    via ::, Vlan1
L   2001:0:CAFE:1::2/128 [0/0]
    via ::, Vlan1
C   2001:0:CAFE:10::/64 [0/0]
    via ::, Vlan10
L   2001:0:CAFE:10::1/128 [0/0]
    via ::, Vlan10
C   2001:0:CAFE:20::/64 [0/0]
    via ::, Vlan20
L   2001:0:CAFE:20::1/128 [0/0]
    via ::, Vlan20
C   2001:0:CAFE:30::/64 [0/0]
    via ::, Vlan30
L   2001:0:CAFE:30::1/128 [0/0]
    via ::, Vlan30
C   2001:0:CAFE:40::/64 [0/0]
    via ::, Vlan40
L   2001:0:CAFE:40::1/128 [0/0]
    via ::, Vlan40
C   2001:0:CAFE:50::/64 [0/0]
    via ::, Vlan50
L   2001:0:CAFE:50::1/128 [0/0]
    via ::, Vlan50
C   2001:0:CAFE:60::/64 [0/0]
    via ::, Vlan60
L   2001:0:CAFE:60::1/128 [0/0]
    via ::, Vlan60
C   2001:0:CAFE:100::/64 [0/0]
    via ::, Vlan100
L   2001:0:CAFE:100::1/128 [0/0]
    via ::, Vlan100
L   FF00::/8 [0/0]
    via ::, Null0

```

```
ip dhcp excluded-address 192.168.20.1 192.168.20.9
ip dhcp excluded-address 192.168.30.1 192.168.30.9
ip dhcp excluded-address 192.168.40.1 192.168.40.9
ip dhcp excluded-address 192.168.50.1 192.168.50.9
ip dhcp excluded-address 192.168.60.1 192.168.60.9
!
ip dhcp pool VLAN20-POOL
 network 192.168.20.0 255.255.255.0
 default-router 192.168.20.1
 dns-server 192.168.10.10
ip dhcp pool VLAN30-POOL
 network 192.168.30.0 255.255.255.0
 default-router 192.168.30.1
 dns-server 192.168.10.10
ip dhcp pool VLAN40-POOL
 network 192.168.40.0 255.255.255.0
 default-router 192.168.40.1
 dns-server 192.168.10.10
ip dhcp pool VLAN50-POOL
 network 192.168.50.0 255.255.255.0
 default-router 192.168.50.1
 dns-server 192.168.10.10
ip dhcp pool VLAN60-POOL
 network 192.168.60.0 255.255.255.0
 default-router 192.168.60.1
 dns-server 192.168.10.10
.
interface GigabitEthernet1/0/1
 switchport trunk allowed vlan 1,10,20,30,40,50,60,100
 switchport mode trunk
!
interface GigabitEthernet1/0/2
 switchport mode trunk
```

```
interface Vlan1
 ip address 192.168.1.2 255.255.255.0
 ipv6 address FE80::4 link-local
 ipv6 address 2001:0:CAFE:1::2/64
 ipv6 rip RED-RIPNG enable
!
interface Vlan10
 mac-address 00d0.5859.9901
 ip address 192.168.10.1 255.255.255.0
 ipv6 address FE80::1 link-local
 ipv6 address 2001:0:CAFE:10::1/64
!
interface Vlan20
 mac-address 00d0.5859.9902
 ip address 192.168.20.1 255.255.255.0
 ip access-group 100 out
 ipv6 address FE80::1 link-local
 ipv6 address 2001:0:CAFE:20::1/64
!
interface Vlan30
 mac-address 00d0.5859.9903
 ip address 192.168.30.1 255.255.255.0
 ipv6 address FE80::1 link-local
 ipv6 address 2001:0:CAFE:30::1/64
!
interface Vlan40
 mac-address 00d0.5859.9904
 ip address 192.168.40.1 255.255.255.0
 ipv6 address FE80::1 link-local
 ipv6 address 2001:0:CAFE:40::1/64
!
interface Vlan50
 mac-address 00d0.5859.9905
 ip address 192.168.50.1 255.255.255.0
 ipv6 address FE80::1 link-local
 ipv6 address 2001:0:CAFE:50::1/64
!
interface Vlan60
 mac-address 00d0.5859.9906
 ip address 192.168.60.1 255.255.255.0
 ipv6 address FE80::1 link-local
 ipv6 address 2001:0:CAFE:60::1/64
!
interface Vlan100
 mac-address 00d0.5859.9907
 ip address 192.168.100.1 255.255.255.0
 ipv6 address FE80::1 link-local
 ipv6 address 2001:0:CAFE:100::1/64
,
```

```

router rip
!
ipv6 router rip RED-RIPNG
!
ip classless
ip route 0.0.0.0 0.0.0.0 192.168.1.1
!
ip flow-export version 9
!
ipv6 route ::/0 2001:0:CAFE:1::1
!
access-list 100 permit icmp any any echo-reply
access-list 100 permit tcp any any established
access-list 100 permit ip 192.168.20.0 0.0.0.255 any
access-list 100 deny ip any any
access-list 101 permit udp 192.168.20.0 0.0.0.255 host 192.168.10.10 eq domain
access-list 101 permit udp 192.168.30.0 0.0.0.255 host 192.168.10.10 eq domain
access-list 101 permit udp 192.168.40.0 0.0.0.255 host 192.168.10.10 eq domain
access-list 101 permit udp 192.168.50.0 0.0.0.255 host 192.168.10.10 eq domain
access-list 101 permit udp 192.168.60.0 0.0.0.255 host 192.168.10.10 eq domain
ipv6 access-list BLOCK-RG-IN
  permit tcp any any
  permit icmp any any echo-reply
  permit icmp any any nd-na
  permit icmp any any nd-ns
  deny ipv6 any 2001:0:CAFE:10::/64
  deny ipv6 any 2001:0:CAFE:20::/64
  deny ipv6 any 2001:0:CAFE:30::/64
  deny ipv6 any 2001:0:CAFE:40::/64
  deny ipv6 any 2001:0:CAFE:50::/64
  deny ipv6 any 2001:0:CAFE:60::/64
  permit ipv6 any any
.

```

Switch Distributed 1 :

```
interface Port-channel1
!
interface GigabitEthernet1/0/1
  switchport mode trunk
!
interface GigabitEthernet1/0/2
!
interface GigabitEthernet1/0/3
  channel-group 1 mode on
!
interface GigabitEthernet1/0/4
  channel-group 1 mode on
!
interface GigabitEthernet1/0/5
  channel-group 1 mode on
!
interface GigabitEthernet1/0/6
  channel-group 1 mode on
!
interface GigabitEthernet1/0/7
  switchport access vlan 20
  switchport mode access
!
interface GigabitEthernet1/0/8
  switchport access vlan 30
  switchport mode access
!
interface GigabitEthernet1/0/9
  switchport access vlan 40
  switchport mode access
!
interface GigabitEthernet1/0/10
  switchport access vlan 50
  switchport mode access
!
interface GigabitEthernet1/0/11
  switchport access vlan 60
  switchport mode access
!
interface GigabitEthernet1/0/12
  switchport access vlan 10
  switchport mode access
!
```

```

.
interface Vlan1
  no ip address
  shutdown
!
interface Vlan10
  mac-address 0060.708d.0c01
  ip address 192.168.10.2 255.255.255.0
  ipv6 address FE80::2 link-local
  ipv6 address 2001:0:CAFE:10::2/64
!
interface Vlan20
  mac-address 0060.708d.0c02
  ip address 192.168.20.2 255.255.255.0
  ipv6 address FE80::2 link-local
  ipv6 address 2001:0:CAFE:20::2/64
!
interface Vlan30
  mac-address 0060.708d.0c03
  ip address 192.168.30.2 255.255.255.0
  ipv6 address FE80::2 link-local
  ipv6 address 2001:0:CAFE:30::2/64
!
interface Vlan40
  mac-address 0060.708d.0c04
  ip address 192.168.40.2 255.255.255.0
  ipv6 address FE80::2 link-local
  ipv6 address 2001:0:CAFE:40::2/64
!
interface Vlan50
  mac-address 0060.708d.0c05
  ip address 192.168.50.2 255.255.255.0
  ipv6 address FE80::2 link-local
  ipv6 address 2001:0:CAFE:50::2/64
!
interface Vlan60
  mac-address 0060.708d.0c06
  ip address 192.168.60.2 255.255.255.0
  ipv6 address FE80::2 link-local
  ipv6 address 2001:0:CAFE:60::2/64
!
interface Vlan100
  mac-address 0060.708d.0c07
  ip address 192.168.100.2 255.255.255.0
  ipv6 address FE80::2 link-local
  ipv6 address 2001:0:CAFE:100::2/64
!
ip classless
ip route 192.168.10.0 255.255.255.0 192.168.1.2
ip route 192.168.20.0 255.255.255.0 192.168.1.2
ip route 192.168.30.0 255.255.255.0 192.168.1.2
ip route 192.168.40.0 255.255.255.0 192.168.1.2
ip route 192.168.50.0 255.255.255.0 192.168.1.2
ip route 192.168.60.0 255.255.255.0 192.168.1.2
!

```

Switch Distributed 2 :



```
interface Port-channel1
  switchport mode trunk
  !
interface GigabitEthernet1/0/1
  switchport mode trunk
  !
interface GigabitEthernet1/0/2
  switchport mode trunk
  channel-group 1 mode on
  !
interface GigabitEthernet1/0/3
  switchport mode trunk
  channel-group 1 mode on
  !
interface GigabitEthernet1/0/4
  !
interface GigabitEthernet1/0/5
  switchport mode trunk
  channel-group 1 mode on
  !
interface GigabitEthernet1/0/6
  switchport mode trunk
  channel-group 1 mode on
  !
interface GigabitEthernet1/0/7
  switchport access vlan 20
  switchport mode access
  !
interface GigabitEthernet1/0/8
  switchport access vlan 30
  switchport mode access
  !
interface GigabitEthernet1/0/9
  switchport access vlan 40
  switchport mode access
  !
interface GigabitEthernet1/0/10
  switchport access vlan 50
  switchport mode access
  !
interface GigabitEthernet1/0/11
  switchport access vlan 60
  switchport mode access
  !
interface GigabitEthernet1/0/12
  switchport access vlan 10
  switchport mode access
  !
```

```

interface Vlan1
  no ip address
  shutdown
!
interface Vlan10
  mac-address 0007.ecbb.2e01
  ip address 192.168.10.3 255.255.255.0
  ipv6 address FE80::3 link-local
  ipv6 address 2001:0:CAFE:10::3/64
!
interface Vlan20
  mac-address 0007.ecbb.2e02
  ip address 192.168.20.3 255.255.255.0
  ipv6 address FE80::3 link-local
  ipv6 address 2001:0:CAFE:20::3/64
!
interface Vlan30
  mac-address 0007.ecbb.2e03
  ip address 192.168.30.3 255.255.255.0
  ipv6 address FE80::3 link-local
  ipv6 address 2001:0:CAFE:30::3/64
!
interface Vlan40
  mac-address 0007.ecbb.2e04
  ip address 192.168.40.3 255.255.255.0
  ipv6 address FE80::3 link-local
  ipv6 address 2001:0:CAFE:40::3/64
!
interface Vlan50
  mac-address 0007.ecbb.2e05
  ip address 192.168.50.3 255.255.255.0
  ipv6 address FE80::3 link-local
  ipv6 address 2001:0:CAFE:50::3/64
!
interface Vlan60
  mac-address 0007.ecbb.2e06
  ip address 192.168.60.3 255.255.255.0
  ipv6 address FE80::3 link-local
  ipv6 address 2001:0:CAFE:60::3/64
!
interface Vlan100
  mac-address 0007.ecbb.2e07
  ip address 192.168.100.3 255.255.255.0
  ipv6 address FE80::3 link-local
  ipv6 address 2001:0:CAFE:100::3/64
!
ip classless
ip route 192.168.10.0 255.255.255.0 192.168.1.2
ip route 192.168.20.0 255.255.255.0 192.168.1.2
ip route 192.168.30.0 255.255.255.0 192.168.1.2
ip route 192.168.40.0 255.255.255.0 192.168.1.2
ip route 192.168.50.0 255.255.255.0 192.168.1.2
ip route 192.168.60.0 255.255.255.0 192.168.1.2
!

```

#### 4.2 Configuration des switchs de type layer 2 :

Switch Serveur WEB :

```
interface Vlan1
 ip address 192.169.5.2 255.255.255.0
 !
 ip default-gateway 192.169.5.1
```

Switch Réunion:

```
interface Vlan1
 ip address 192.168.2.2 255.255.255.0
 shutdown
 !
 ip default-gateway 192.168.2.1
 !
```

Switch Accueil:

```
interface Vlan1
 ip address 192.168.3.2 255.255.255.0
 shutdown
 !
 ip default-gateway 192.168.3.1
 !
```

Switch Showroom:

```
interface Vlan1
 ip address 192.168.4.2 255.255.255.0
 shutdown
 !
 ip default-gateway 192.168.4.1
 !
```

Switch Direction:

```
interface Vlan1
 no ip address
 shutdown
 .
```

Switch RH:

```
interface Vlan1
 no ip address
 shutdown
 .
```

Switch Commerciaux/Chargés de clientèle:

```
interface Vlan1
 no ip address
 shutdown
 .
```

Switch Finance :

```
interface Vlan1
no ip address
shutdown
.
```

Switch Service Informatique :

```
interface Vlan1
no ip address
shutdown
.
```

Switch du serveur DNS :

```
interface Vlan1
no ip address
shutdown
.
```