



Impact Influence

## Configuration des équipements

### 1. Plan d'adressage IP :

#### Bâtiment bleu

Sous-réseaux	CIDR IPv4	Gateway IPv4	Préfixe IPv6	Gateway IPv6
Accueil	192.168.10.0/24	192.168.10.1/24	2001:0:CAFE:0:1000::/69	2001:0:CAFE:0:1000::1/69
Showroom	192.168.20.0/24	192.168.10.1/24	2001:0:CAFE:0:1800::/69	2001:0:CAFE:0:1800::1/69
Equipement réseau				
Type	Nom	IPv4	IPv6	
Routeur	Bleu	192.168.10.1/24	2001:0:CAFE:0:1000::1/69	
		192.168.20.1/24	2001:0:CAFE:0:1800::1/69	

#### Bâtiment vert

Sous-réseaux	CIDR IPv4	Gateway IPv4	Préfixe IPv6	Gateway IPv6
Web	192.168.10.0/24	192.168.10.1/24	2001:0:CAFE::/69	2001:0:CAFE::1/69
Réunion	192.168.20.0/24	192.168.20.1/24	2001:0:CAFE:0:800::/69	2001:0:CAFE:0:800::1/69
Equipement réseau				
Type	Nom	IPv4	IPv6	
Routeur	Vert	192.168.10.1/24	2001:0:CAFE::1/69	
		192.168.20.1/24	2001:0:CAFE:0:800::1/69	

#### Bâtiment rouge

VLANID	Nom	CIDR IPv4	Gateway IPv4	Préfixe IPv6	Gateway IPv6
VLAN10	Réseau LAN	192.168.10.0/24	192.168.10.1/24	2001:0:CAFE:0:5800::/69	2001:0:CAFE:0:5800::1/69
VLAN20	Informatique	192.168.20.0/24	192.168.20.1/24	2001:0:CAFE:0:3000::/69	2001:0:CAFE:0:3000::1/69
VLAN30	Finance	192.168.30.0/24	192.168.30.1/24	2001:0:CAFE:0:3800::/69	2001:0:CAFE:0:3800::1/69
VLAN40	Commercial	192.168.40.0/24	192.168.40.1/24	2001:0:CAFE:0:4000::/69	2001:0:CAFE:0:4000::1/69
VLAN50	RH	192.168.50.0/24	192.168.50.1/24	2001:0:CAFE:0:4800::/69	2001:0:CAFE:0:4800::1/69
VLAN60	Direction	192.168.60.0/24	192.168.60.1/24	2001:0:CAFE:0:5000::/69	2001:0:CAFE:0:5000::1/69
VLAN70	DNS	192.168.70.0/24	192.168.70.1/24	2001:0:CAFE:0:2800::/69	2001:0:CAFE:0:2800::1/69
VLAN99	Administration	192.168.99.0/24	192.168.99.1/24	2001:0:CAFE:0:6000::/69	2001:0:CAFE:0:6000::1/69
VLAN100	Com switch-routeur	192.168.100.0/24	192.168.100.1/24	2001:0:CAFE:0:2000::/69	2001:0:CAFE:0:2000::1/69
Equipements réseau					
Type	Nom	IPv4		IPv6	
Switch L3	Core	192.168.10.1/24 – 192.168.99.1/24		Non supporté	
Switch L3	Distributed	192.168.10.2/24 – 192.168.99.2/24		Non supporté	
Switch L3	Distributed2	192.168.10.3/24 – 192.168.99.3/24		Non supporté	
Routeur	Rouge	192.168.100.2/24		2001:0:CAFE:0:5800::1/69 – 2001:0:CAFE:0:6000::1/69	

WAN			
Nom	Port	IPv4	IPv6
Bleu	Serial 0/1/0	132.186.32.49/29	2001:0:CAFE:0:F800::A/126
	Serial 0/1/1	132.186.32.33/29	2001:0:CAFE:0:F800::1/126
Vert	Serial 0/1/0	132.186.32.41/29	2001:0:CAFE:0:F800::5/126
	Serial 0/1/1	132.186.32.34/29	2001:0:CAFE:0:F800::2/126
Rouge	Serial 0/1/0	132.186.32.50/29	2001:0:CAFE:0:F800::9/126
	Serial 0/1/1	132.186.32.42/29	2001:0:CAFE:0:F800::6/126

## 2. Configuration DNS :

**SERVICES**

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS**
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP
- IoT
- VM Management
- Radius EAP

**DNS**

DNS Service ☒ On ☐ Off

Resource Records

Name  Type **CNAME** ▼

Host Name

No.	Name	Type	Detail
0	impactinfluence.com	A Record	132.186.32.41
1	impactinfluence.com	AAAA Record	2001:0:CAFE::A

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

Bâtiment Bleu :

```
Bleu#sh 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 not set
```

```
132.186.0.0/29 is subnetted, 3 subnets
C    132.186.32.32 is directly connected, Serial0/1/1
D    132.186.32.40 [90/2681856] via 132.186.32.50, 06:17:57, Serial0/1/0
     [90/2681856] via 132.186.32.34, 06:17:57, Serial0/1/1
C    132.186.32.48 is directly connected, Serial0/1/0
C    192.168.10.0/24 is directly connected, FastEthernet0/1
C    192.168.20.0/24 is directly connected, FastEthernet0/0
```

```
Bleu#sh ipv6 route
IPv6 Routing Table - 21 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:0:F800::2
EX  2001:0:CAFE::/69 [170/2195456]
    via FE80::20C:85FF:FE8B:870B, Serial0/1/1
EX  2001:0:CAFE:0:800::/69 [170/2195456]
    via FE80::20C:85FF:FE8B:870B, Serial0/1/1
C   2001:0:CAFE:0:1000::/69 [0/0]
    via ::, FastEthernet0/1
L   2001:0:CAFE:0:1000::1/128 [0/0]
    via ::, FastEthernet0/1
C   2001:0:CAFE:0:1800::/69 [0/0]
    via ::, FastEthernet0/0
L   2001:0:CAFE:0:1800::1/128 [0/0]
    via ::, FastEthernet0/0
EX  2001:0:CAFE:0:2000::/69 [170/2195456]
    via FE80::20A:F3FF:FEA9:600B, Serial0/1/0
EX  2001:0:CAFE:0:2800::/69 [170/2195456]
    via FE80::20A:F3FF:FEA9:600B, Serial0/1/0
EX  2001:0:CAFE:0:3000::/69 [170/2195456]
    via FE80::20A:F3FF:FEA9:600B, Serial0/1/0
EX  2001:0:CAFE:0:3800::/69 [170/2195456]
    via FE80::20A:F3FF:FEA9:600B, Serial0/1/0
EX  2001:0:CAFE:0:4000::/69 [170/2195456]
    via FE80::20A:F3FF:FEA9:600B, Serial0/1/0
EX  2001:0:CAFE:0:4800::/69 [170/2195456]
    via FE80::20A:F3FF:FEA9:600B, Serial0/1/0
EX  2001:0:CAFE:0:5000::/69 [170/2195456]
    via FE80::20A:F3FF:FEA9:600B, Serial0/1/0
EX  2001:0:CAFE:0:6000::/69 [170/2195456]
    via FE80::20A:F3FF:FEA9:600B, Serial0/1/0
C   2001:0:CAFE:0:F800::/126 [0/0]
    via ::, Serial0/1/1
L   2001:0:CAFE:0:F800::1/128 [0/0]
    via ::, Serial0/1/1
D   2001:0:CAFE:0:F800::4/126 [90/2681856]
    via FE80::20A:F3FF:FEA9:600B, Serial0/1/0
    via FE80::20C:85FF:FE8B:870B, Serial0/1/1
C   2001:0:CAFE:0:F800::8/126 [0/0]
    via ::, Serial0/1/0
L   2001:0:CAFE:0:F800::A/128 [0/0]
    via ::, Serial0/1/0
L   FF00::/8 [0/0]
    via ::, Null0
```

```
Bleu#sh ip int brief
```

Interface	IP-Address	OK?	Method	Status	Protocol
FastEthernet0/0	192.168.20.1	YES	manual	up	up
FastEthernet0/1	192.168.10.1	YES	manual	up	up
Serial0/1/0	132.186.32.49	YES	manual	up	up
Serial0/1/1	132.186.32.33	YES	manual	up	up
Vlan1	unassigned	YES	unset	administratively down	down

```

Bleu#sh ipv6 int brief
FastEthernet0/0          [up/up]
    FE80::240:BFF:FE47:3101
    2001:0:CAFE:0:1800::1
FastEthernet0/1          [up/up]
    FE80::240:BFF:FE47:3102
    2001:0:CAFE:0:1000::1
Serial0/1/0              [up/up]
    FE80::240:BFF:FE47:3103
    2001:0:CAFE:0:F800::A
Serial0/1/1              [up/up]
    FE80::240:BFF:FE47:3104
    2001:0:CAFE:0:F800::1
Vlan1                    [administratively down/down]
    unassigned
Bleu#sh ip nat statistics
Total translations: 4 (0 static, 4 dynamic, 4 extended)
Outside Interfaces: Serial0/1/0 , Serial0/1/1
Inside Interfaces: FastEthernet0/0 , FastEthernet0/1
Hits: 8 Misses: 8
Expired translations: 4
Dynamic mappings:
Bleu#sh ip nat translations
Pro  Inside global      Inside local      Outside local     Outside global
icmp 132.186.32.49:5     192.168.20.10:5   132.186.32.42:5   132.186.32.42:5
icmp 132.186.32.49:6     192.168.20.10:6   132.186.32.42:6   132.186.32.42:6
icmp 132.186.32.49:7     192.168.20.10:7   132.186.32.42:7   132.186.32.42:7
icmp 132.186.32.49:8     192.168.20.10:8   132.186.32.42:8   132.186.32.42:8

```

## Bâtiment Rouge :

```

Rouge#sh 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 192.168.100.1 to network 0.0.0.0

```

    132.186.0.0/29 is subnetted, 3 subnets
D      132.186.32.32 [90/2681856] via 132.186.32.49, 11:59:53, Serial0/1/0
        [90/2681856] via 132.186.32.41, 11:59:53, Serial0/1/1
C      132.186.32.40 is directly connected, Serial0/1/1
C      132.186.32.48 is directly connected, Serial0/1/0
C      192.168.100.0/24 is directly connected, FastEthernet0/0.100
S*    0.0.0.0/0 [1/0] via 192.168.100.1

```

```

Rouge#sh ipv6 route
IPv6 Routing Table - 27 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

```

```

EX  ::/0 [170/7289856]
    via FE80::240:BFF:FE47:3103, Serial0/1/0
EX  2001:0:CAFE::/69 [170/2195456]
    via FE80::20C:85FF:FE8B:870A, Serial0/1/1
EX  2001:0:CAFE:0:800::/69 [170/2195456]
    via FE80::20C:85FF:FE8B:870A, Serial0/1/1
EX  2001:0:CAFE:0:1000::/69 [170/2195456]
    via FE80::240:BFF:FE47:3103, Serial0/1/0
EX  2001:0:CAFE:0:1800::/69 [170/2195456]
    via FE80::240:BFF:FE47:3103, Serial0/1/0
C   2001:0:CAFE:0:2000::/69 [0/0]
    via ::, FastEthernet0/0.100
L   2001:0:CAFE:0:2000::1/128 [0/0]
    via ::, FastEthernet0/0.100
C   2001:0:CAFE:0:2800::/69 [0/0]
    via ::, FastEthernet0/0.70
L   2001:0:CAFE:0:2800::1/128 [0/0]
    via ::, FastEthernet0/0.70
C   2001:0:CAFE:0:3000::/69 [0/0]
    via ::, FastEthernet0/0.20
L   2001:0:CAFE:0:3000::1/128 [0/0]
    via ::, FastEthernet0/0.20
C   2001:0:CAFE:0:3800::/69 [0/0]
    via ::, FastEthernet0/0.30
L   2001:0:CAFE:0:3800::1/128 [0/0]
    via ::, FastEthernet0/0.30
C   2001:0:CAFE:0:4000::/69 [0/0]
    via ::, FastEthernet0/0.40
L   2001:0:CAFE:0:4000::1/128 [0/0]
    via ::, FastEthernet0/0.40
C   2001:0:CAFE:0:4800::/69 [0/0]
    via ::, FastEthernet0/0.50
L   2001:0:CAFE:0:4800::1/128 [0/0]
    via ::, FastEthernet0/0.50
C   2001:0:CAFE:0:5000::/69 [0/0]
    via ::, FastEthernet0/0.60
L   2001:0:CAFE:0:5000::1/128 [0/0]
    via ::, FastEthernet0/0.60
C   2001:0:CAFE:0:6000::/69 [0/0]
    via ::, FastEthernet0/0.99
L   2001:0:CAFE:0:6000::1/128 [0/0]
    via ::, FastEthernet0/0.99
D   2001:0:CAFE:0:F800::/126 [90/2681856]
    via FE80::240:BFF:FE47:3103, Serial0/1/0
    via FE80::20C:85FF:FE8B:870A, Serial0/1/1
C   2001:0:CAFE:0:F800::4/126 [0/0]
    via ::, Serial0/1/1
L   2001:0:CAFE:0:F800::6/128 [0/0]
    via ::, Serial0/1/1
C   2001:0:CAFE:0:F800::8/126 [0/0]
    via ::, Serial0/1/0
L   2001:0:CAFE:0:F800::9/128 [0/0]
    via ::, Serial0/1/0
L   FF00::/8 [0/0]
    via ::, Null0

```

Rouge#sh ip int brief

Interface	IP-Address	OK?	Method	Status	Protocol
FastEthernet0/0	unassigned	YES	unset	up	up
FastEthernet0/0.10	unassigned	YES	unset	administratively down	down
FastEthernet0/0.20	unassigned	YES	unset	up	up
FastEthernet0/0.30	unassigned	YES	unset	up	up
FastEthernet0/0.40	unassigned	YES	unset	up	up
FastEthernet0/0.50	unassigned	YES	unset	up	up
FastEthernet0/0.60	unassigned	YES	unset	up	up
FastEthernet0/0.70	unassigned	YES	unset	up	up
FastEthernet0/0.99	unassigned	YES	unset	up	up
FastEthernet0/0.100	192.168.100.2	YES	manual	up	up
FastEthernet0/1	unassigned	YES	unset	administratively down	down
Serial0/1/0	132.186.32.50	YES	manual	up	up
Serial0/1/1	132.186.32.42	YES	manual	up	up
Vlan1	unassigned	YES	unset	administratively down	down



```

Rouge#sh ipv6 int brief
FastEthernet0/0          [up/up]
    unassigned
FastEthernet0/0.10       [administratively down/down]
    FE80::20A:F3FF:FEA9:6001
    2001:0:CAFE:0:5800::1
FastEthernet0/0.20       [up/up]
    FE80::20A:F3FF:FEA9:6002
    2001:0:CAFE:0:3000::1
FastEthernet0/0.30       [up/up]
    FE80::20A:F3FF:FEA9:6003
    2001:0:CAFE:0:3800::1
FastEthernet0/0.40       [up/up]
    FE80::20A:F3FF:FEA9:6004
    2001:0:CAFE:0:4000::1
FastEthernet0/0.50       [up/up]
    FE80::20A:F3FF:FEA9:6005
    2001:0:CAFE:0:4800::1
FastEthernet0/0.60       [up/up]
    FE80::20A:F3FF:FEA9:6006
    2001:0:CAFE:0:5000::1
FastEthernet0/0.70       [up/up]
    FE80::20A:F3FF:FEA9:6007
    2001:0:CAFE:0:2800::1
FastEthernet0/0.99       [up/up]
    FE80::20A:F3FF:FEA9:6009
    2001:0:CAFE:0:6000::1
FastEthernet0/0.100      [up/up]
    FE80::20A:F3FF:FEA9:600A
    2001:0:CAFE:0:2000::1
FastEthernet0/1          [administratively down/down]
    unassigned
Serial0/1/0              [up/up]
    FE80::20A:F3FF:FEA9:600B
    2001:0:CAFE:0:F800::9
Serial0/1/1              [up/up]
    FE80::20A:F3FF:FEA9:600C
    2001:0:CAFE:0:F800::6
Vlan1                    [administratively down/down]
    unassigned

Rouge#sh ip nat statistics
Total translations: 4 (0 static, 4 dynamic, 4 extended)
Outside Interfaces: Serial0/1/0 , Serial0/1/1
Inside Interfaces: FastEthernet0/0
Hits: 4 Misses: 8
Expired translations: 0
Dynamic mappings:
Rouge#sh ip nat translations
Pro  Inside global      Inside local      Outside local     Outside global
icmp 132.186.32.50:17    192.168.30.6:17   132.186.32.34:17  132.186.32.34:17
icmp 132.186.32.50:18    192.168.30.6:18   132.186.32.34:18  132.186.32.34:18
icmp 132.186.32.50:19    192.168.30.6:19   132.186.32.34:19  132.186.32.34:19
icmp 132.186.32.50:20    192.168.30.6:20   132.186.32.34:20  132.186.32.34:20

Rouge#sh access-lists
Standard IP access list 1
 10 permit 192.168.10.0 0.0.0.255
 20 permit 192.168.20.0 0.0.0.255
 30 permit 192.168.30.0 0.0.0.255 (8 match(es))
 40 permit 192.168.40.0 0.0.0.255
 50 permit 192.168.50.0 0.0.0.255
 60 permit 192.168.60.0 0.0.0.255
 70 permit 192.168.100.0 0.0.0.255
IPv6 access list FILTER_IPv6
 permit icmp any 2001:0:CAFE:0:3000::/69 echo-reply
 permit tcp any 2001:0:CAFE:0:3000::/69
 deny ipv6 2001:0:CAFE:0:3800::/69 2001:0:CAFE:0:3000::/69
 deny ipv6 2001:0:CAFE:0:4000::/69 2001:0:CAFE:0:3000::/69
 deny ipv6 2001:0:CAFE:0:4800::/69 2001:0:CAFE:0:3000::/69
 deny ipv6 2001:0:CAFE:0:5000::/69 2001:0:CAFE:0:3000::/69
 permit ipv6 any any (1045 match(es))

```

## Bâtiment Vert :

```
Vert#sh 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 not set
```

```
132.186.0.0/29 is subnetted, 3 subnets
C      132.186.32.32 is directly connected, Serial0/1/1
C      132.186.32.40 is directly connected, Serial0/1/0
D      132.186.32.48 [90/2681856] via 132.186.32.33, 00:06:03, Serial0/1/1
                        [90/2681856] via 132.186.32.42, 00:06:02, Serial0/1/0
C      192.168.10.0/24 is directly connected, FastEthernet0/1
C      192.168.20.0/24 is directly connected, FastEthernet0/0
```

```
Vert#sh ipv6 route
```

```
IPv6 Routing Table - 21 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
```

```

EX ::/0 [170/7289856]
  via FE80::240:BFF:FE47:3104, Serial0/1/1
C 2001:0:CAFE::/69 [0/0]
  via ::, FastEthernet0/1
L 2001:0:CAFE::1/128 [0/0]
  via ::, FastEthernet0/1
C 2001:0:CAFE:0:800::/69 [0/0]
  via ::, FastEthernet0/0
L 2001:0:CAFE:0:800::1/128 [0/0]
  via ::, FastEthernet0/0
EX 2001:0:CAFE:0:1000::/69 [170/2195456]
  via FE80::240:BFF:FE47:3104, Serial0/1/1
EX 2001:0:CAFE:0:1800::/69 [170/2195456]
  via FE80::240:BFF:FE47:3104, Serial0/1/1
EX 2001:0:CAFE:0:2000::/69 [170/2195456]
  via FE80::20A:F3FF:FEA9:600C, Serial0/1/0
EX 2001:0:CAFE:0:2800::/69 [170/2195456]
  via FE80::20A:F3FF:FEA9:600C, Serial0/1/0
EX 2001:0:CAFE:0:3000::/69 [170/2195456]
  via FE80::20A:F3FF:FEA9:600C, Serial0/1/0
EX 2001:0:CAFE:0:3800::/69 [170/2195456]
  via FE80::20A:F3FF:FEA9:600C, Serial0/1/0
EX 2001:0:CAFE:0:4000::/69 [170/2195456]
  via FE80::20A:F3FF:FEA9:600C, Serial0/1/0
EX 2001:0:CAFE:0:4800::/69 [170/2195456]
  via FE80::20A:F3FF:FEA9:600C, Serial0/1/0
EX 2001:0:CAFE:0:5000::/69 [170/2195456]
  via FE80::20A:F3FF:FEA9:600C, Serial0/1/0
EX 2001:0:CAFE:0:6000::/69 [170/2195456]
  via FE80::20A:F3FF:FEA9:600C, Serial0/1/0
C 2001:0:CAFE:0:F800::/126 [0/0]
  via ::, Serial0/1/1
L 2001:0:CAFE:0:F800::2/128 [0/0]
  via ::, Serial0/1/1
C 2001:0:CAFE:0:F800::4/126 [0/0]
  via ::, Serial0/1/0
L 2001:0:CAFE:0:F800::5/128 [0/0]
  via ::, Serial0/1/0
D 2001:0:CAFE:0:F800::8/126 [90/2681856]
  via FE80::240:BFF:FE47:3104, Serial0/1/1
  via FE80::20A:F3FF:FEA9:600C, Serial0/1/0
L FF00::/8 [0/0]
  via ::, Null0

```

Vert#sh ip int brief

Interface	IP-Address	OK?	Method	Status	Protocol
FastEthernet0/0	192.168.20.1	YES	manual	up	up
FastEthernet0/1	192.168.10.1	YES	manual	up	up
Serial0/1/0	132.186.32.41	YES	manual	up	up
Serial0/1/1	132.186.32.34	YES	manual	up	up
Vlan1	unassigned	YES	unset	administratively down	down

Vert#sh ipv6 int brief

FastEthernet0/0	[up/up]
FE80::20C:85FF:FE8B:8701	
2001:0:CAFE:0:800::1	
FastEthernet0/1	[up/up]
FE80::20C:85FF:FE8B:8702	
2001:0:CAFE::1	
Serial0/1/0	[up/up]
FE80::20C:85FF:FE8B:870A	
2001:0:CAFE:0:F800::5	
Serial0/1/1	[up/up]
FE80::20C:85FF:FE8B:870B	
2001:0:CAFE:0:F800::2	
Vlan1	[administratively down/down]
unassigned	



```

Vert#sh ip nat statistics
Total translations: 4 (4 static, 0 dynamic, 2 extended)
Outside Interfaces: Serial0/1/0 , Serial0/1/1
Inside Interfaces: FastEthernet0/1
Hits: 0 Misses: 16
Expired translations: 0
Dynamic mappings:
Vert#sh ip nat translations
Pro  Inside global      Inside local      Outside local      Outside global
tcp  132.186.32.34:443    192.168.10.10:443 ---                ---
tcp  132.186.32.34:80     192.168.10.10:80  ---                ---
tcp  132.186.32.41:443    192.168.10.10:443 ---                ---
tcp  132.186.32.41:80     192.168.10.10:80  ---                ---

```

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

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

Switch Core :

```
Core#sh vlan brief
```

VLAN	Name	Status	Ports
1	default	active	Fa0/4, Fa0/5, Fa0/6, Fa0/7 Fa0/8, Fa0/9, Fa0/10, Fa0/11 Fa0/12, Fa0/13, Fa0/14, Fa0/15 Fa0/16, Fa0/17, Fa0/18, Fa0/19 Fa0/20, Fa0/21, Fa0/22, Fa0/23 Fa0/24, Gig0/2
10	Network	active	
20	Informatique	active	
30	Finance	active	
40	Commercial	active	
50	RH	active	
60	Direction	active	
70	DNS	active	
99	Administration	active	
100	WAN	active	
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

```
Core#sh access-lists
```

```
Extended IP access list FILTER_IPv4
```

```

10 permit icmp any 192.168.20.0 0.0.0.255 echo-reply
20 permit tcp any 192.168.20.0 0.0.0.255 established
30 deny ip 192.168.30.0 0.0.0.255 192.168.20.0 0.0.0.255
40 deny ip 192.168.40.0 0.0.0.255 192.168.20.0 0.0.0.255
50 deny ip 192.168.50.0 0.0.0.255 192.168.20.0 0.0.0.255
60 deny ip 192.168.60.0 0.0.0.255 192.168.20.0 0.0.0.255
70 permit ip any any (38 match(es))

```

## Switch Distributed 1 :

Distributed#sh ip dhcp pool

### Pool Informatique :

Utilization mark (high/low) : 100 / 0  
Subnet size (first/next) : 0 / 0  
Total addresses : 254  
Leased addresses : 1  
Excluded addresses : 10  
Pending event : none

1 subnet is currently in the pool

Current index	IP address range	Leased/Excluded/Total
192.168.20.1	192.168.20.1 - 192.168.20.254	1 / 10 / 254

### Pool Finance :

Utilization mark (high/low) : 100 / 0  
Subnet size (first/next) : 0 / 0  
Total addresses : 254  
Leased addresses : 1  
Excluded addresses : 10  
Pending event : none

1 subnet is currently in the pool

Current index	IP address range	Leased/Excluded/Total
192.168.30.1	192.168.30.1 - 192.168.30.254	1 / 10 / 254

### Pool Commercial :

Utilization mark (high/low) : 100 / 0  
Subnet size (first/next) : 0 / 0  
Total addresses : 254  
Leased addresses : 1  
Excluded addresses : 10  
Pending event : none

1 subnet is currently in the pool

Current index	IP address range	Leased/Excluded/Total
192.168.40.1	192.168.40.1 - 192.168.40.254	1 / 10 / 254

### Pool RH :

Utilization mark (high/low) : 100 / 0  
Subnet size (first/next) : 0 / 0  
Total addresses : 254  
Leased addresses : 1  
Excluded addresses : 10  
Pending event : none

1 subnet is currently in the pool

Current index	IP address range	Leased/Excluded/Total
192.168.50.1	192.168.50.1 - 192.168.50.254	1 / 10 / 254

### Pool Direction :

Utilization mark (high/low) : 100 / 0  
Subnet size (first/next) : 0 / 0  
Total addresses : 254  
Leased addresses : 1  
Excluded addresses : 10  
Pending event : none

1 subnet is currently in the pool

Current index	IP address range	Leased/Excluded/Total
192.168.60.1	192.168.60.1 - 192.168.60.254	1 / 10 / 254

Distributed#sh vlan brief

VLAN	Name	Status	Ports
1	default	active	Fa0/7, Fa0/8, Fa0/9, Fa0/10 Fa0/11, Fa0/12, Fa0/13, Fa0/14 Fa0/15, Fa0/16, Fa0/17, Fa0/18 Fa0/19, Fa0/20, Gig0/2
10	Network	active	
20	Informatique	active	
30	Finance	active	
40	Commercial	active	
50	RH	active	
60	Direction	active	
70	DNS	active	
99	Administration	active	
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

Distributed#sh etherchannel summary

Flags: D - down P - in port-channel  
I - stand-alone s - suspended  
H - Hot-standby (LACP only)  
R - Layer3 S - Layer2  
U - in use f - failed to allocate aggregator  
u - unsuitable for bundling  
w - waiting to be aggregated  
d - default port

Number of channel-groups in use: 1  
Number of aggregators: 1

Group	Port-channel	Protocol	Ports
1	Pol(SU)	LACP	Fa0/21(P) Fa0/22(P) Fa0/23(P) Fa0/24(P)

Distributed#sh etherchannel port-channel  
Channel-group listing:

Group: 1

Port-channels in the group:

Port-channel: Pol (Primary Aggregator)

Age of the Port-channel = 00d:00h:19m:35s  
Logical slot/port = 2/1 Number of ports = 4  
GC = 0x00000000 HotStandBy port = null  
Port state = Port-channel  
Protocol = LACP  
Port Security = Disabled

Ports in the Port-channel:

Index	Load	Port	EC state	No of bits
0	00	Fa0/24	Active	0
0	00	Fa0/23	Active	0
0	00	Fa0/22	Active	0
0	00	Fa0/21	Active	0
Time since last port bundled:				00d:00h:19m:35s Fa0/21

## Switch Distributed 2 :

Distributed2#sh ip dhcp pool

### Pool Informatique :

Utilization mark (high/low) : 100 / 0  
Subnet size (first/next) : 0 / 0  
Total addresses : 254  
Leased addresses : 0  
Excluded addresses : 5  
Pending event : none

1 subnet is currently in the pool

Current index	IP address range	Leased/Excluded/Total
192.168.20.1	192.168.20.1 - 192.168.20.254	0 / 5 / 254

### Pool Finance :

Utilization mark (high/low) : 100 / 0  
Subnet size (first/next) : 0 / 0  
Total addresses : 254  
Leased addresses : 1  
Excluded addresses : 5  
Pending event : none

1 subnet is currently in the pool

Current index	IP address range	Leased/Excluded/Total
192.168.30.1	192.168.30.1 - 192.168.30.254	1 / 5 / 254

### Pool Commercial :

Utilization mark (high/low) : 100 / 0  
Subnet size (first/next) : 0 / 0  
Total addresses : 254  
Leased addresses : 0  
Excluded addresses : 5  
Pending event : none

1 subnet is currently in the pool

Current index	IP address range	Leased/Excluded/Total
192.168.40.1	192.168.40.1 - 192.168.40.254	0 / 5 / 254

### Pool RH :

Utilization mark (high/low) : 100 / 0  
Subnet size (first/next) : 0 / 0  
Total addresses : 254  
Leased addresses : 0  
Excluded addresses : 5  
Pending event : none

1 subnet is currently in the pool

Current index	IP address range	Leased/Excluded/Total
192.168.50.1	192.168.50.1 - 192.168.50.254	0 / 5 / 254

### Pool Direction :

Utilization mark (high/low) : 100 / 0  
Subnet size (first/next) : 0 / 0  
Total addresses : 254  
Leased addresses : 0  
Excluded addresses : 5  
Pending event : none

1 subnet is currently in the pool

Current index	IP address range	Leased/Excluded/Total
192.168.60.1	192.168.60.1 - 192.168.60.254	0 / 5 / 254

Distributed2#sh vlan brief

VLAN Name	Status	Ports
1 default	active	Fa0/7, Fa0/8, Fa0/9, Fa0/11 Fa0/12, Fa0/13, Fa0/14, Fa0/15 Fa0/16, Fa0/17, Fa0/18, Fa0/19 Fa0/20, Gig0/2
10 Network	active	
20 Informatique	active	
30 Finance	active	
40 Commercial	active	
50 RH	active	
60 Direction	active	
70 DNS	active	
99 Administration	active	
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

Distributed2#sh etherchannel summary

Flags: D - down P - in port-channel  
I - stand-alone s - suspended  
H - Hot-standby (LACP only)  
R - Layer3 S - Layer2  
U - in use f - failed to allocate aggregator  
u - unsuitable for bundling  
w - waiting to be aggregated  
d - default port

Number of channel-groups in use: 1

Number of aggregators: 1

Group	Port-channel	Protocol	Ports
1	Pol(SU)	LACP	Fa0/21(P) Fa0/22(P) Fa0/23(P) Fa0/24(P)

Distributed2#sh etherchannel port-channel

Channel-group listing:

Group: 1

Port-channels in the group:

Port-channel: Pol (Primary Aggregator)

Age of the Port-channel = 00d:00h:25m:06s

Logical slot/port = 2/1 Number of ports = 4

GC = 0x00000000 HotStandBy port = null

Port state = Port-channel

Protocol = LACP

Port Security = Disabled

Ports in the Port-channel:

Index	Load	Port	EC state	No of bits
0	00	Fa0/24	Active	0
0	00	Fa0/23	Active	0
0	00	Fa0/21	Active	0
0	00	Fa0/22	Active	0
Time since last port bundled:				00d:00h:25m:06s Fa0/22

## 4.2 Configuration des switchs de type layer 2 :

Switch Serveur WEB :

```
Web#sh running-config
Building configuration...
```

Current configuration : 1077 bytes

```
!
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Web
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
!
interface FastEthernet0/2
!
interface FastEthernet0/3
!
interface FastEthernet0/4
!
interface FastEthernet0/5
!
interface FastEthernet0/6
!
interface FastEthernet0/7
!
interface FastEthernet0/8
!
interface FastEthernet0/9
!
interface FastEthernet0/10
!
interface FastEthernet0/11
!
interface FastEthernet0/12
!
interface FastEthernet0/13
!
interface FastEthernet0/14
!
interface FastEthernet0/15
!
interface FastEthernet0/16
!
interface FastEthernet0/17
!
```



```

interface FastEthernet0/18
!
interface FastEthernet0/19
!
interface FastEthernet0/20
!
interface FastEthernet0/21
!
interface FastEthernet0/22
!
interface FastEthernet0/23
!
interface FastEthernet0/24
!
interface GigabitEthernet0/1
!
interface GigabitEthernet0/2
!
interface Vlan1
no ip address
shutdown
!
!
line con 0
!
line vty 0 4
login
line vty 5 15
login
!
!
end

```

Switch Réunion:

```

Reunion#sh run
Building configuration...

```

Current configuration : 1081 bytes

```

!
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Reunion
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
!

```

```
interface FastEthernet0/2
!  
interface FastEthernet0/3
!  
interface FastEthernet0/4
!  
interface FastEthernet0/5
!  
interface FastEthernet0/6
!  
interface FastEthernet0/7
!  
interface FastEthernet0/8
!  
interface FastEthernet0/9
!  
interface FastEthernet0/10
!  
interface FastEthernet0/11
!  
interface FastEthernet0/12
!  
interface FastEthernet0/13
!  
interface FastEthernet0/14
!  
interface FastEthernet0/15
!  
interface FastEthernet0/16
!  
interface FastEthernet0/17
!  
interface FastEthernet0/18
!  
interface FastEthernet0/19
!  
interface FastEthernet0/20
!  
interface FastEthernet0/21
!  
interface FastEthernet0/22
!  
interface FastEthernet0/23
!  
interface FastEthernet0/24
!  
interface GigabitEthernet0/1
!  
interface GigabitEthernet0/2
!  
interface Vlan1
no ip address
shutdown
!
```

```
!  
line con 0  
!  
line vty 0 4  
login  
line vty 5 15  
login  
!  
!  
end
```

Switch Accueil:

```
Accueil#sh run  
Building configuration...
```

Current configuration : 1081 bytes

```
!  
version 15.0  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
no service password-encryption  
!  
hostname Accueil  
!  
!  
spanning-tree mode pvst  
spanning-tree extend system-id  
!  
interface FastEthernet0/1  
!  
interface FastEthernet0/2  
!  
interface FastEthernet0/3  
!  
interface FastEthernet0/4  
!  
interface FastEthernet0/5  
!  
interface FastEthernet0/6  
!  
interface FastEthernet0/7  
!  
interface FastEthernet0/8  
!  
interface FastEthernet0/9  
!  
interface FastEthernet0/10  
!  
interface FastEthernet0/11  
!  
interface FastEthernet0/12
```

```

!
interface FastEthernet0/13
!
interface FastEthernet0/14
!
interface FastEthernet0/15
!
interface FastEthernet0/16
!
interface FastEthernet0/17
!
interface FastEthernet0/18
!
interface FastEthernet0/19
!
interface FastEthernet0/20
!
interface FastEthernet0/21
!
interface FastEthernet0/22
!
interface FastEthernet0/23
!
interface FastEthernet0/24
!
interface GigabitEthernet0/1
!
interface GigabitEthernet0/2
!
interface Vlan1
no ip address
shutdown
!
!
line con 0
!
line vty 0 4
login
line vty 5 15
login
!
!
end

```

Switch Showroom:

```
Showroom#sh run
Building configuration...
```

Current configuration : 1082 bytes

```
!
version 15.0
```

```
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Showroom
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
!
interface FastEthernet0/2
!
interface FastEthernet0/3
!
interface FastEthernet0/4
!
interface FastEthernet0/5
!
interface FastEthernet0/6
!
interface FastEthernet0/7
!
interface FastEthernet0/8
!
interface FastEthernet0/9
!
interface FastEthernet0/10
!
interface FastEthernet0/11
!
interface FastEthernet0/12
!
interface FastEthernet0/13
!
interface FastEthernet0/14
!
interface FastEthernet0/15
!
interface FastEthernet0/16
!
interface FastEthernet0/17
!
interface FastEthernet0/18
!
interface FastEthernet0/19
!
interface FastEthernet0/20
!
interface FastEthernet0/21
!
interface FastEthernet0/22
!
```

```

interface FastEthernet0/23
!
interface FastEthernet0/24
!
interface GigabitEthernet0/1
!
interface GigabitEthernet0/2
!
interface Vlan1
no ip address
shutdown
!
!
line con 0
!
line vty 0 4
login
line vty 5 15
login
!
!
end

```

Switch Direction:

```

Direction#sh run
Building configuration...

```

Current configuration : 2517 bytes

```

!
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Direction
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
switchport access vlan 60
switchport mode access
!
interface FastEthernet0/2
switchport access vlan 60
switchport mode access
!
interface FastEthernet0/3
switchport access vlan 60
switchport mode access
!
interface FastEthernet0/4

```



```
switchport access vlan 60
switchport mode access
!
interface FastEthernet0/5
switchport access vlan 60
switchport mode access
!
interface FastEthernet0/6
switchport access vlan 60
switchport mode access
!
interface FastEthernet0/7
switchport access vlan 60
switchport mode access
!
interface FastEthernet0/8
switchport access vlan 60
switchport mode access
!
interface FastEthernet0/9
switchport access vlan 60
switchport mode access
!
interface FastEthernet0/10
switchport access vlan 60
switchport mode access
!
interface FastEthernet0/11
switchport access vlan 60
switchport mode access
!
interface FastEthernet0/12
switchport access vlan 60
switchport mode access
!
interface FastEthernet0/13
switchport access vlan 60
switchport mode access
!
interface FastEthernet0/14
switchport access vlan 60
switchport mode access
!
interface FastEthernet0/15
switchport access vlan 60
switchport mode access
!
interface FastEthernet0/16
switchport access vlan 60
switchport mode access
!
interface FastEthernet0/17
switchport access vlan 60
switchport mode access
```

```
!  
interface FastEthernet0/18  
switchport access vlan 60  
switchport mode access  
!  
interface FastEthernet0/19  
switchport access vlan 60  
switchport mode access  
!  
interface FastEthernet0/20  
switchport access vlan 60  
switchport mode access  
!  
interface FastEthernet0/21  
switchport access vlan 60  
switchport mode access  
!  
interface FastEthernet0/22  
switchport access vlan 60  
switchport mode access  
!  
interface FastEthernet0/23  
switchport access vlan 60  
switchport mode access  
!  
interface FastEthernet0/24  
switchport access vlan 60  
switchport mode access  
!  
interface GigabitEthernet0/1  
switchport trunk native vlan 60  
switchport trunk allowed vlan 20,30,40,50,60,70  
switchport mode trunk  
!  
interface GigabitEthernet0/2  
switchport trunk native vlan 60  
switchport trunk allowed vlan 20,30,40,50,60,70  
switchport mode trunk  
!  
interface Vlan1  
no ip address  
shutdown  
!  
!  
line con 0  
!  
line vty 0 4  
login  
line vty 5 15  
login  
!  
!  
end
```

Switch RH:

RH#sh run

Building configuration...

Current configuration : 2510 bytes

!

version 15.0

no service timestamps log datetime msec

no service timestamps debug datetime msec

no service password-encryption

!

hostname RH

!

!

spanning-tree mode pvst

spanning-tree extend system-id

!

interface FastEthernet0/1

switchport access vlan 50

switchport mode access

!

interface FastEthernet0/2

switchport access vlan 50

switchport mode access

!

interface FastEthernet0/3

switchport access vlan 50

switchport mode access

!

interface FastEthernet0/4

switchport access vlan 50

switchport mode access

!

interface FastEthernet0/5

switchport access vlan 50

switchport mode access

!

interface FastEthernet0/6

switchport access vlan 50

switchport mode access

!

interface FastEthernet0/7

switchport access vlan 50

switchport mode access

!

interface FastEthernet0/8

switchport access vlan 50

switchport mode access

!

interface FastEthernet0/9

switchport access vlan 50

switchport mode access

```
!  
interface FastEthernet0/10  
switchport access vlan 50  
switchport mode access  
!  
interface FastEthernet0/11  
switchport access vlan 50  
switchport mode access  
!  
interface FastEthernet0/12  
switchport access vlan 50  
switchport mode access  
!  
interface FastEthernet0/13  
switchport access vlan 50  
switchport mode access  
!  
interface FastEthernet0/14  
switchport access vlan 50  
switchport mode access  
!  
interface FastEthernet0/15  
switchport access vlan 50  
switchport mode access  
!  
interface FastEthernet0/16  
switchport access vlan 50  
switchport mode access  
!  
interface FastEthernet0/17  
switchport access vlan 50  
switchport mode access  
!  
interface FastEthernet0/18  
switchport access vlan 50  
switchport mode access  
!  
interface FastEthernet0/19  
switchport access vlan 50  
switchport mode access  
!  
interface FastEthernet0/20  
switchport access vlan 50  
switchport mode access  
!  
interface FastEthernet0/21  
switchport access vlan 50  
switchport mode access  
!  
interface FastEthernet0/22  
switchport access vlan 50  
switchport mode access  
!  
interface FastEthernet0/23
```

```

switchport access vlan 50
switchport mode access
!
interface FastEthernet0/24
switchport access vlan 50
switchport mode access
!
interface GigabitEthernet0/1
switchport trunk native vlan 50
switchport trunk allowed vlan 20,30,40,50,60,70
switchport mode trunk
!
interface GigabitEthernet0/2
switchport trunk native vlan 50
switchport trunk allowed vlan 20,30,40,50,60,70
switchport mode trunk
!
interface Vlan1
no ip address
shutdown
!
!
line con 0
!
line vty 0 4
login
line vty 5 15
login
!
!
end

```

Switch Commerciaux/Chargés de clientèle:

```

Commercial#sh run
Building configuration...

```

```

Current configuration : 2518 bytes
!
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Commercial
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
switchport access vlan 40

```

```
switchport mode access
!
interface FastEthernet0/2
switchport access vlan 40
switchport mode access
!
interface FastEthernet0/3
switchport access vlan 40
switchport mode access
!
interface FastEthernet0/4
switchport access vlan 40
switchport mode access
!
interface FastEthernet0/5
switchport access vlan 40
switchport mode access
!
interface FastEthernet0/6
switchport access vlan 40
switchport mode access
!
interface FastEthernet0/7
switchport access vlan 40
switchport mode access
!
interface FastEthernet0/8
switchport access vlan 40
switchport mode access
!
interface FastEthernet0/9
switchport access vlan 40
switchport mode access
!
interface FastEthernet0/10
switchport access vlan 40
switchport mode access
!
interface FastEthernet0/11
switchport access vlan 40
switchport mode access
!
interface FastEthernet0/12
switchport access vlan 40
switchport mode access
!
interface FastEthernet0/13
switchport access vlan 40
switchport mode access
!
interface FastEthernet0/14
switchport access vlan 40
switchport mode access
!
```



```
interface FastEthernet0/15
switchport access vlan 40
switchport mode access
!
interface FastEthernet0/16
switchport access vlan 40
switchport mode access
!
interface FastEthernet0/17
switchport access vlan 40
switchport mode access
!
interface FastEthernet0/18
switchport access vlan 40
switchport mode access
!
interface FastEthernet0/19
switchport access vlan 40
switchport mode access
!
interface FastEthernet0/20
switchport access vlan 40
switchport mode access
!
interface FastEthernet0/21
switchport access vlan 40
switchport mode access
!
interface FastEthernet0/22
switchport access vlan 40
switchport mode access
!
interface FastEthernet0/23
switchport access vlan 40
switchport mode access
!
interface FastEthernet0/24
switchport access vlan 40
switchport mode access
!
interface GigabitEthernet0/1
switchport trunk native vlan 40
switchport trunk allowed vlan 20,30,40,50,60,70
switchport mode trunk
!
interface GigabitEthernet0/2
switchport trunk native vlan 40
switchport trunk allowed vlan 20,30,40,50,60,70
switchport mode trunk
!
interface Vlan1
no ip address
shutdown
!
```

```
!  
line con 0  
!  
line vty 0 4  
login  
line vty 5 15  
login  
!  
!  
end
```

Switch Finance :

```
Finance#sh run  
Building configuration...
```

Current configuration : 2515 bytes

```
!  
version 15.0  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
no service password-encryption  
!  
hostname Finance  
!  
!  
spanning-tree mode pvst  
spanning-tree extend system-id  
!  
interface FastEthernet0/1  
switchport access vlan 30  
switchport mode access  
!  
interface FastEthernet0/2  
switchport access vlan 30  
switchport mode access  
!  
interface FastEthernet0/3  
switchport access vlan 30  
switchport mode access  
!  
interface FastEthernet0/4  
switchport access vlan 30  
switchport mode access  
!  
interface FastEthernet0/5  
switchport access vlan 30  
switchport mode access  
!  
interface FastEthernet0/6  
switchport access vlan 30  
switchport mode access  
!  
interface FastEthernet0/7
```

```
switchport access vlan 30
switchport mode access
!
interface FastEthernet0/8
switchport access vlan 30
switchport mode access
!
interface FastEthernet0/9
switchport access vlan 30
switchport mode access
!
interface FastEthernet0/10
switchport access vlan 30
switchport mode access
!
interface FastEthernet0/11
switchport access vlan 30
switchport mode access
!
interface FastEthernet0/12
switchport access vlan 30
switchport mode access
!
interface FastEthernet0/13
switchport access vlan 30
switchport mode access
!
interface FastEthernet0/14
switchport access vlan 30
switchport mode access
!
interface FastEthernet0/15
switchport access vlan 30
switchport mode access
!
interface FastEthernet0/16
switchport access vlan 30
switchport mode access
!
interface FastEthernet0/17
switchport access vlan 30
switchport mode access
!
interface FastEthernet0/18
switchport access vlan 30
switchport mode access
!
interface FastEthernet0/19
switchport access vlan 30
switchport mode access
!
interface FastEthernet0/20
switchport access vlan 30
switchport mode access
```

```

!
interface FastEthernet0/21
switchport access vlan 30
switchport mode access
!
interface FastEthernet0/22
switchport access vlan 30
switchport mode access
!
interface FastEthernet0/23
switchport access vlan 30
switchport mode access
!
interface FastEthernet0/24
switchport access vlan 30
switchport mode access
!
interface GigabitEthernet0/1
switchport trunk native vlan 30
switchport trunk allowed vlan 20,30,40,50,60,70
switchport mode trunk
!
interface GigabitEthernet0/2
switchport trunk native vlan 30
switchport trunk allowed vlan 20,30,40,50,60,70
switchport mode trunk
!
interface Vlan1
no ip address
shutdown
!
!
line con 0
!
line vty 0 4
login
line vty 5 15
login
!
!
end

```

Switch Service Informatique :

```

Informatique#sh run
Building configuration...

```

Current configuration : 2532 bytes

```

!
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec

```

```
no service password-encryption
!
hostname Informatique
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
switchport access vlan 20
switchport mode access
!
interface FastEthernet0/2
switchport access vlan 20
switchport mode access
!
interface FastEthernet0/3
switchport access vlan 20
switchport mode access
!
interface FastEthernet0/4
switchport access vlan 20
switchport mode access
!
interface FastEthernet0/5
switchport access vlan 20
switchport mode access
!
interface FastEthernet0/6
switchport access vlan 20
switchport mode access
!
interface FastEthernet0/7
switchport access vlan 20
switchport mode access
!
interface FastEthernet0/8
switchport access vlan 20
switchport mode access
!
interface FastEthernet0/9
switchport access vlan 20
switchport mode access
!
interface FastEthernet0/10
switchport access vlan 20
switchport mode access
!
interface FastEthernet0/11
switchport access vlan 20
switchport mode access
!
interface FastEthernet0/12
switchport access vlan 20
```

```
switchport mode access
!
interface FastEthernet0/13
switchport access vlan 20
switchport mode access
!
interface FastEthernet0/14
switchport access vlan 20
switchport mode access
!
interface FastEthernet0/15
switchport access vlan 20
switchport mode access
!
interface FastEthernet0/16
switchport access vlan 20
switchport mode access
!
interface FastEthernet0/17
switchport access vlan 20
switchport mode access
!
interface FastEthernet0/18
switchport access vlan 20
switchport mode access
!
interface FastEthernet0/19
switchport access vlan 20
switchport mode access
!
interface FastEthernet0/20
switchport access vlan 20
switchport mode access
!
interface FastEthernet0/21
switchport access vlan 20
switchport mode access
!
interface FastEthernet0/22
switchport access vlan 20
switchport mode access
!
interface FastEthernet0/23
switchport access vlan 20
switchport mode access
!
interface FastEthernet0/24
switchport access vlan 20
switchport mode access
!
interface GigabitEthernet0/1
switchport trunk native vlan 20
switchport trunk allowed vlan 10,20,30,40,50,60,70,99
switchport mode trunk
```

```

!
interface GigabitEthernet0/2
switchport trunk native vlan 20
switchport trunk allowed vlan 10,20,30,40,50,60,70,99
switchport mode trunk
!
interface Vlan1
no ip address
shutdown
!
!
line con 0
!
line vty 0 4
login
line vty 5 15
login
!
!
end

```

Switch du serveur DNS :

DNS#sh run

Building configuration...

Current configuration : 2517 bytes

```

!
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname DNS
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
switchport access vlan 70
switchport mode access
!
interface FastEthernet0/2
switchport access vlan 70
switchport mode access
!
interface FastEthernet0/3
switchport access vlan 70
switchport mode access
!
interface FastEthernet0/4

```

```
switchport access vlan 70
switchport mode access
!
interface FastEthernet0/5
switchport access vlan 70
switchport mode access
!
interface FastEthernet0/6
switchport access vlan 70
switchport mode access
!
interface FastEthernet0/7
switchport access vlan 70
switchport mode access
!
interface FastEthernet0/8
switchport access vlan 70
switchport mode access
!
interface FastEthernet0/9
switchport access vlan 70
switchport mode access
!
interface FastEthernet0/10
switchport access vlan 70
switchport mode access
!
interface FastEthernet0/11
switchport access vlan 70
switchport mode access
!
interface FastEthernet0/12
switchport access vlan 70
switchport mode access
!
interface FastEthernet0/13
switchport access vlan 70
switchport mode access
!
interface FastEthernet0/14
switchport access vlan 70
switchport mode access
!
interface FastEthernet0/15
switchport access vlan 70
switchport mode access
!
interface FastEthernet0/16
switchport access vlan 70
switchport mode access
!
interface FastEthernet0/17
switchport access vlan 70
switchport mode access
```



```
!  
interface FastEthernet0/18  
switchport access vlan 70  
switchport mode access  
!  
interface FastEthernet0/19  
switchport access vlan 70  
switchport mode access  
!  
interface FastEthernet0/20  
switchport access vlan 70  
switchport mode access  
!  
interface FastEthernet0/21  
switchport access vlan 70  
switchport mode access  
!  
interface FastEthernet0/22  
switchport access vlan 70  
switchport mode access  
!  
interface FastEthernet0/23  
switchport access vlan 70  
switchport mode access  
!  
interface FastEthernet0/24  
switchport access vlan 70  
switchport mode access  
!  
interface GigabitEthernet0/1  
switchport trunk native vlan 70  
switchport trunk allowed vlan 10,20,30,40,50,60,70  
switchport mode trunk  
!  
interface GigabitEthernet0/2  
switchport trunk native vlan 70  
switchport trunk allowed vlan 10,20,30,40,50,60,70  
switchport mode trunk  
!  
interface Vlan1  
no ip address  
shutdown  
!  
!  
line con 0  
!  
line vty 0 4  
login  
line vty 5 15  
login  
!  
!  
end
```