



Configuration des équipements

1. Plan d'adressage IP :

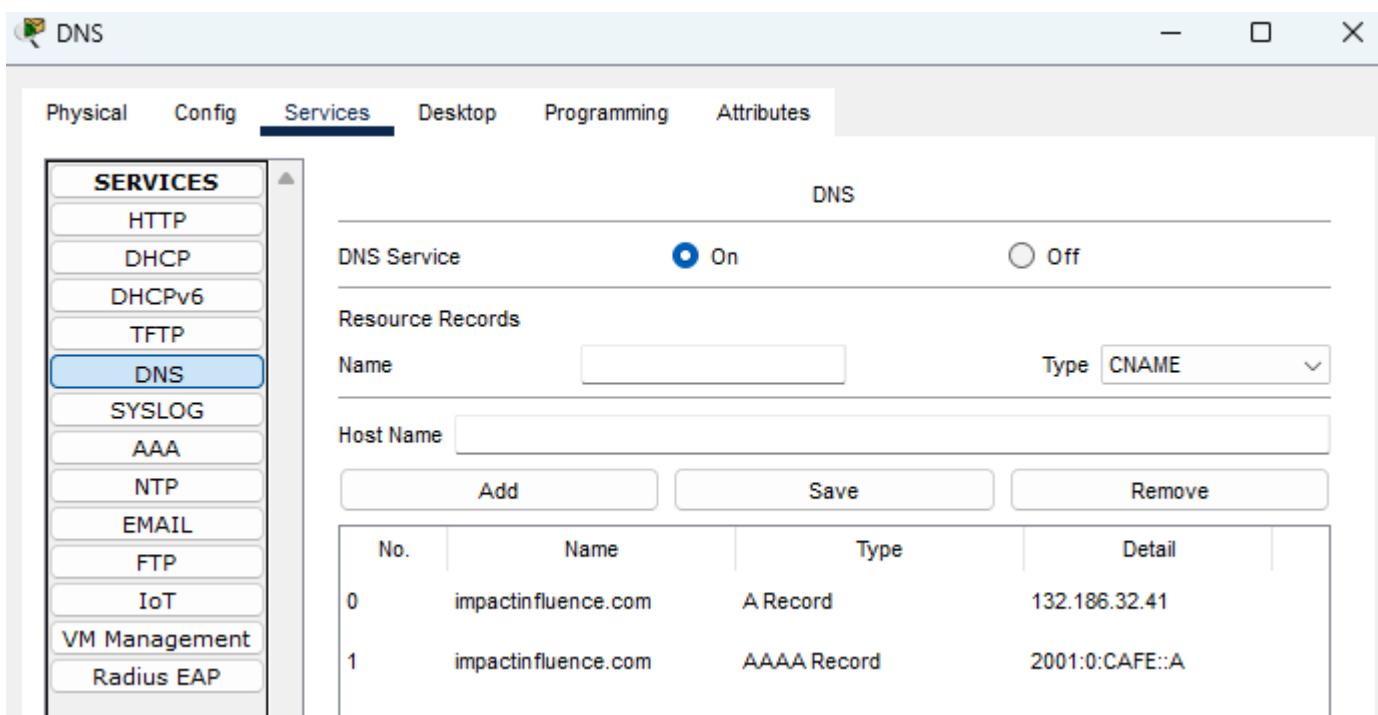
Bâtiment bleu				
Sous-réseaux	CIDR IPv4	Gateway IPv4	Préfixe IPv6	Gateway IPv6
Accueil	192.168.10.0/24	192.168.10.1/24	2001:0:CAFE:0:1000::/69	2001:0:CAFE:0:1000::1/69
Showroom	192.168.20.0/24	192.168.10.1/24	2001:0:CAFE:0:1800::/69	2001:0:CAFE:0:1800::1/69
Equipement réseau				
Type	Nom	IPv4	IPv6	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



3. Configuration des routeurs (comportant 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	
FastEthernet0/1	192.168.10.1	YES	manual	up	
Serial0/1/0	132.186.32.49	YES	manual	up	
Serial0/1/1	132.186.32.33	YES	manual	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

```

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

Vert#sh ip 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 switchs (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	fdci-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	fdninet-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
```