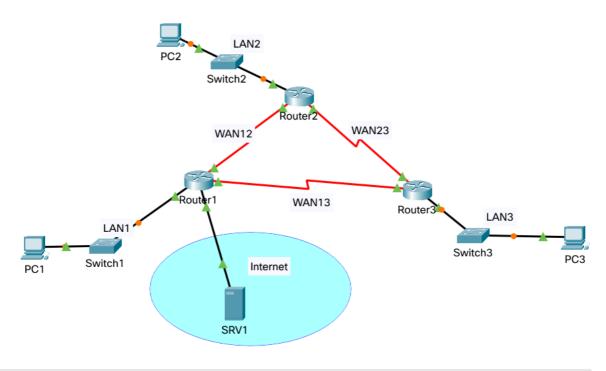
Labo n°4: VLSM et RIPv2

-> Morgan Valentin

Schéma du labo:



Remarques

- 1. Ne pas mettre "default-information originate" si on a PAS de route à partager!
 - Donc juste pour R1, mais pas pour les autres.
- 2. Ne pas oublier de préciser les "clock rates" pour les liaisons entre routeurs
- 3. Mettre "no auto-summary" dans les configurations RIP.

Table d'adressage

Host	Network	IP range	Broadcast
LAN3 (60)	172.16.30. 0	172.16.30. 1 => 172.16.30. 62	172.16.30.63
LAN1 (20)	172.16.30. 64	172.16.30. 65 => 172.16.30. 94	172.16.30.95
LAN2 (7)	172.16.30. 96	172.16.30. 97 => 172.16.30. 110	172.16.30.111
WAN12	172.16.30. 112	172.16.30. 113 => 172.16.30. 114	172.16.30.115
WAN13	172.16.30. 116	172.16.30. 117 => 172.16.30. 118	172.16.30.119
WAN23	172.16.30. 120	172.16.30. 121 => 172.16.30. 122	172.16.30.123

Répartitions des adresses IP

Host/Device	Interface	IP	Mask
R1	g0/0	172.16.30.65	255.255.255.224 (/27)
R1 (=> internet)	g0/1	209.162.210.200	255.255.255.0 (/24)
R1 (=> R2)	s0/0/0	172.16.30.113	255.255.255.252 (/30)
R1 (=>R3)	s0/0/1	172.16.30.117	255.255.255.252 (/30)

Host/Device	Interface	IP	Mask
R2	g0/0	172.16.30.97	255.255.255.240 (/28)
R2 (=> R1)	s0/0/0	172.16.30.114	255.255.255.252 (/30)
R2 (=> R3)	s0/0/1	172.16.30.121	255.255.255.252 (/30)

Host/Device	Interface	IP	Mask
R3	g0/0	172.16.30.1	255.255.255.192 (/25)
R3 (=> R1)	s0/0/0	172.16.30.118	255.255.255.252 (/30)
R3 (=> R2)	s0/0/1	172.16.30.122	255.255.255.252 (/30)

```
hostname R1
no ip domain-lookup
enable secret class
banner motd %Hello%
  int g0/0
  description vers LAN1
  ip add 172.16.30.65 255.255.255.224
  no shut
  int g0/1
  description vers INTERNET
  ip add 209.162.210.200 255.255.255.0
  no shut
  int s0/0/0
  description vers R2
  ip add 172.16.30.113 255.255.255.252
  clock rate 64000
  no shut
  int s0/0/1
  description vers R3
  ip add 172.16.30.117 255.255.255.252
  clock rate 64000
  no shut
  line vty 04
  logging synchronous
  password cisco
  login
  line console 0
  logging synchronous
  password cisco
  login
```

service password-encryption

ip route 0.0.0.0 0.0.0.0 g0/1

```
router rip
version 2

passive-interface g0/0

network 172.16.30.64

network 172.16.30.112

network 172.16.30.116

default-information originate
no auto-summary
```

```
R2
hostname R2
no ip domain-lookup
enable secret class
banner motd %Hello%
  int g0/0
  description vers LAN2
  ip add 172.16.30.97 255.255.255.240
  no shut
  int s0/0/0
  description vers R1
  ip add 172.16.30.114 255.255.255.252
  clock rate 64000
  no shut
  int s0/0/1
  description vers R3
  ip add 172.16.30.121 255.255.255.252
  clock rate 64000
  no shut
  line vty 04
  logging synchronous
  password cisco
```

login

line console 0

logging synchronous password cisco login

service password-encryption

```
router rip
version 2
passive-interface g0/0
network 172.16.30.96
network 172.16.30.112
network 172.16.30.120
```

no auto-summary

```
hostname R3
no ip domain-lookup
enable secret class
banner motd %Hello%
  int g0/0
  description vers LAN3
  ip add 172.16.30.1 255.255.255.192
  no shut
  int s0/0/0
  description vers R1
  ip add 172.16.30.118 255.255.255.252
  clock rate 64000
  no shut
  int s0/0/1
  description vers R2
  ip add 172.16.30.122 255.255.255.252
  clock rate 64000
  no shut
  line vty 04
  logging synchronous
  password cisco
  login
  line console 0
  logging synchronous
  password cisco
  login
service password-encryption
  router rip
  version 2
  passive-interface g0/0
  network 172.16.30.0
```

network 172.16.30.116

network 172.16.30.120

no auto-summary

```
hostname S2
enable secret class
banner motd %Hello%

ip domain-name henallux.be
username userssh secret userssh
crypto key generate rsa general-keys modulus 1024
ip ssh version 2
```

int vlan1

description vers PC1 ip add 172.16.30.66 255.255.254 no shut

line vty 04

logging synchronous password cisco transport input ssh login local

line console 0

logging synchronous password cisco

service password-encryption

ip default-gateway 172.16.30.65

```
hostname S2
enable secret class
banner motd %Hello%

ip domain-name henallux.be
username userssh secret userssh
crypto key generate rsa general-keys modulus 1024
ip ssh version 2
```

int vlan1

description vers PC2 ip add 172.16.30.98 255.255.255.240 no shut

line vty 04

logging synchronous password cisco transport input ssh login local

line console 0

logging synchronous password cisco

service password-encryption

ip default-gateway 172.16.30.97

```
hostname S3
enable secret class
banner motd %Hello%
ip domain-name henallux.be
username userssh secret userssh
crypto key generate rsa general-keys modulus 1024
ip ssh version 2
  int vlan1
  description vers PC3
```

no shut

line vty 04

ip add 172.16.30.2 255.255.255.192

logging synchronous password cisco transport input ssh login local

line console 0

logging synchronous password cisco

service password-encryption

ip default-gateway 172.16.30.1

PC1

ipv4 address	172.16.30.67
Subnet Mask	255.255.255.224
Default Gateway	172.16.30.65

PC2

ipv4 address	172.16.30.99
Subnet Mask	255.255.255.240
Default Gateway	172.16.30.97

PC3

ipv4 address	172.16.30.3
Subnet Mask	255.255.255.192
Default Gateway	172.16.30.1