

Labo n°5 : VLAN et routage inter-VLAN

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Schéma du labo :

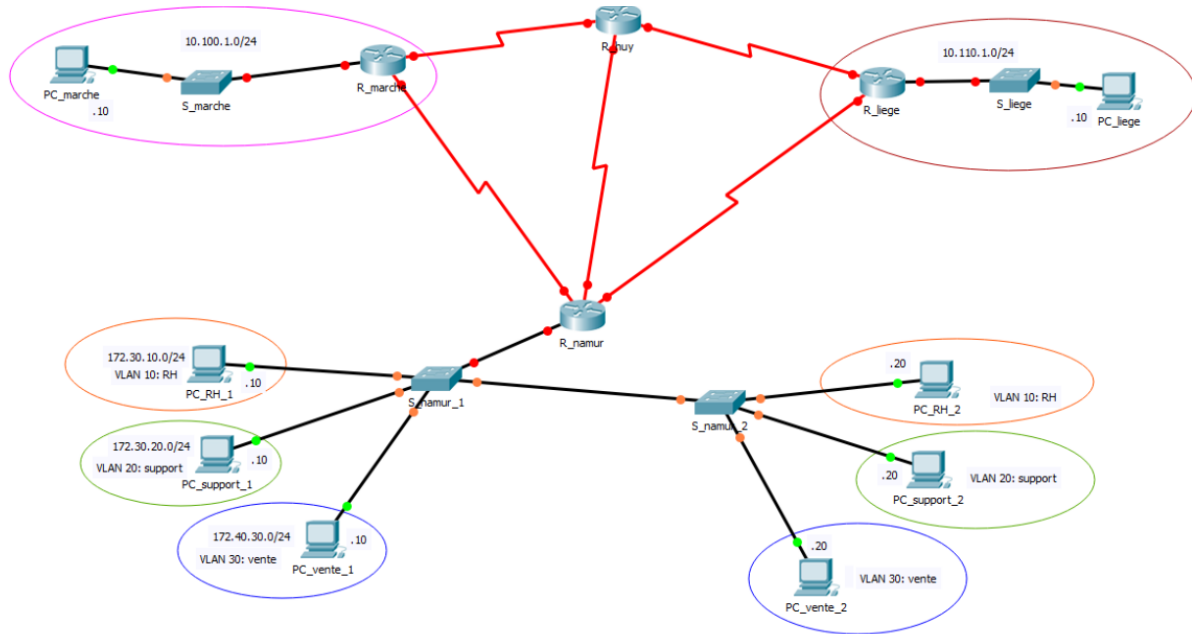


Table d'adressage

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
R_marche	g0/0	10.100.1.1	255.255.255.0 (/24)
R_marche	s0/0/0	192.168.10.9	255.255.255.252 (/30)
R_marche	s0/0/1	192.168.10.1	255.255.255.252 (/30)

Host/Device	Interface	IP	Mask
R_huy	s0/0/0	192.168.10.5	255.255.255.252 (/30)
R_huy	s0/0/1	192.168.10.13	255.255.255.252 (/30)
R_huy	s0/1/0	192.168.10.2	255.255.255.252 (/30)

Host/Device	Interface	IP	Mask
R_liege	g0/0	10.110.1.1	255.255.255.0 (/24)
R_liege	s0/0/0	192.168.10.6	255.255.255.252 (/30)
R_liege	s0/0/1	192.168.10.17	255.255.255.252 (/30)

Host/Device	Interface	IP	Mask
R_namur	s0/0/0	192.168.10.10	255.255.255.252 (/30)
R_namur	s0/0/1	192.168.10.14	255.255.255.252 (/30)
R_namur	s0/1/0	192.168.10.18	255.255.255.252 (/30)
R_namur	g0/0.10	172.30.10.1	255.255.255.0 (/24)
R_namur	g0/0.20	172.30.20.1	255.255.255.0 (/24)
R_namur	g0/0.30	172.40.30.1	255.255.255.0 (/24)

R_marche

```
hostname R_marche
```

int g0/0

```
ip address 10.100.1.1 255.255.255.0
```

```
no shut
```

int s0/0/0

```
ip address 192.168.10.9 255.255.255.252
```

```
no shut
```

int s0/0/1

```
ip address 192.168.10.1 255.255.255.252
```

```
no shut
```

router rip

```
version 2
```

```
passive-interface g0/0
```

```
network 10.0.0.0
```

```
network 192.168.10.0
```

```
no auto-summary
```

R_huy

```
hostname R_huy
```

int s0/0/0

```
ip address 192.168.10.5 255.255.255.252
```

```
no shut
```

int s0/0/1

```
ip address 192.168.10.13 255.255.255.252
```

```
no shut
```

int s0/1/0

```
ip address 192.168.10.2 255.255.255.252
```

```
no shut
```

router rip

```
version 2
```

```
network 192.168.10.0
```

```
no auto-summary
```

R_liege

```
hostname R_liege
```

int g0/0

```
ip address 10.110.1.1 255.255.255.0
```

```
no shut
```

int s0/0/0

```
ip address 192.168.10.6 255.255.255.252
```

```
no shut
```

int s0/0/1

```
ip address 192.168.10.17 255.255.255.252
```

```
no shut
```

router rip

```
version 2
```

```
passive-interface g0/0
```

```
network 10.0.0.0
```

```
network 192.168.10.0
```

```
no auto-summary
```

R_namur

```
hostname R_namur
```

int g0/0

```
no shut
```

int g0/0.10

```
encapsulation dot1Q 10
```

```
ip address 172.30.10.1 255.255.255.0
```

int g0/0.20

```
encapsulation dot1Q 20
```

```
ip address 172.30.20.1 255.255.255.0
```

int g0/0.30

```
encapsulation dot1Q 30
```

```
ip address 172.40.30.1 255.255.255.0
```

int s0/0/0

```
ip address 192.168.10.10 255.255.255.252
```

```
no shut
```

int s0/0/1

```
ip address 192.168.10.14 255.255.255.252
```

```
no shut
```

int s0/1/0

```
ip address 192.168.10.18 255.255.255.252
```

```
no shut
```

router rip

```
version 2
```

```
passive-interface g0/0.10
```

```
passive-interface g0/0.20
```

```
network 172.30.0.0
```

```
network 192.168.10.0
```

```
no auto-summary
```

S_namur_1

```
hostname S_namur_1
```

```
ip domain-name henallux.be
```

```
username ssh secret ssh
```

int f0/1

```
switchport access vlan 10
```

```
switchport mode access
```

int f0/9

```
switchport access vlan 20
```

```
switchport mode access
```

int f0/17

```
switchport access vlan 30
```

```
switchport mode access
```

int g0/1

```
switchport mode trunk
```

int g0/2

```
switchport mode trunk
```

int Vlan20

```
ip address 172.30.20.30 255.255.255.0
```

```
ip default-gateway 172.30.20.1
```

line vty 0 4

```
login local
```

```
transport input ssh
```

S_namur_2

```
hostname S_namur_2
```

```
ip domain-name henallux.be
```

```
username ssh secret ssh
```

int f0/1

```
switchport access vlan 10
```

```
switchport mode access
```

int f0/9

```
switchport access vlan 20
```

```
switchport mode access
```

int f0/17

```
switchport access vlan 30
```

```
switchport mode access
```

int g0/2

```
switchport mode trunk
```

int Vlan20

```
ip address 172.30.20.40 255.255.255.0
```

```
ip default-gateway 172.30.20.1
```

line vty 0 4

```
login local
```

```
transport input ssh
```

PC_RH_1

ipv4 address	172.30.10.10
Subnet Mask	255.255.255.0
Default Gateway	172.30.10.1

PC_RH_2

ipv4 address	172.30.10.20
Subnet Mask	255.255.255.0
Default Gateway	172.30.10.1

PC_support_1

ipv4 address	172.30.20.10
Subnet Mask	255.255.255.0
Default Gateway	172.30.20.1

PC_support_2

ipv4 address	172.30.20.20
Subnet Mask	255.255.255.0
Default Gateway	172.30.20.1

PC_vente_1

ipv4 address	172.40.30.10
Subnet Mask	255.255.255.0
Default Gateway	172.40.30.1

PC_vente_2

ipv4 address	172.40.30.20
Subnet Mask	255.255.255.0
Default Gateway	172.40.30.1

