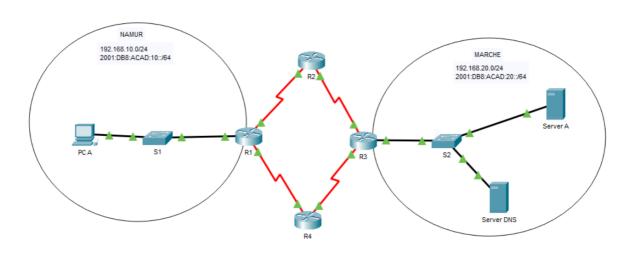
Labo n°3: Dual Stack

-> Morgan Valentin

Schéma du labo:



Répartitions des adresses IP

Host/Device	Interface	IP	IPv6
R1	g0/0	192.168.10.1	2001:DB8:ACAD:10::/64 => EUI-64
R1 (=> R2)	s0/0/0	10.10.10.1	2001:DB8:ACAD:100::1/64
R1 (=> R4)	s0/0/1	10.10.10.9	2001:DB8:ACAD:102::1/64

Host/Device	Interface	IP	IPv6
R2 (=> R1)	s0/0/0	10.10.10.2	2001:DB8:ACAD:100::2/64
R2 (=> R3)	s0/0/1	10.10.10.5	2001:DB8:ACAD:101::1/64

Host/Device	Interface	IP	IPv6
R3	g0/0	192.168.20.1	2001:DB8:ACAD:20::1/64
R3 (=> R4)	s0/0/0	10.10.10.14	2001:DB8:ACAD:103::2/64
R3 (=> R2)	s0/0/1	10.10.10.6	2001:DB8:ACAD:101::2/64

Host/Device	Interface	IP	IPv6
R4 (=> R3)	s0/0/0	10.10.10.13	2001:DB8:ACAD:103::1/64
R4 (=> R1)	s0/0/1	10.10.10.10	2001:DB8:ACAD:102::2/64

hostname R1 no ip domain-lookup ipv6 unicast-routing

int g0/0

description vers Namur
ip add 192.168.10.1 255.255.255.0
ipv6 address 2001:DB8:ACAD:10::/64 eui-64
ipv6 address FE80::1 link-local
no shut

int s0/0/0

description vers R2
ip add 10.10.10.1 255.255.255.252
ipv6 add 2001:DB8:ACAD:100::1/64
ipv6 address FE80::1 link-local
no shut

int s0/0/1

description vers R4

ip add 10.10.10.9 255.255.255.252

ipv6 add 2001:DB8:ACAD:102::1/64

ipv6 address FE80::1 link-local
no shut

ip dhcp excluded-address 192.168.10.1

ip dhcp pool pool-ipv4

network 192.168.10.0 255.255.255.0 default-router 192.168.10.1 dns-server 192.168.20.250

! Pour accéder au réseau de Marche

ip route 192.168.20.0 255.255.255.0 s0/0/0
ip route 192.168.20.0 255.255.255.0 s0/0/1
ipv6 route 2001:DB8:ACAD:20::/64 s0/0/0
ipv6 route 2001:DB8:ACAD:20::/64 s0/0/1

hostname R2
no ip domain-lookup
ipv6 unicast-routing

int s0/0/0

description vers R1
ip add 10.10.10.2 255.255.255.252
ipv6 add 2001:DB8:ACAD:100::2/64
ipv6 address FE80::2 link-local
no shut

int s0/0/1

description vers R3
ip add 10.10.10.5 255.255.255.252
ipv6 add 2001:DB8:ACAD:101::1/64
ipv6 address FE80::2 link-local
no shut

! Pour accéder au réseau de Marche - Passer par R3 ip route 192.168.20.0 255.255.255.0 s0/0/1 ipv6 route 2001:DB8:ACAD:20::/64 s0/0/1

! Pour accéder au réseau de Namur - Passer par R1 ip route 192.168.10.0 255.255.255.0 s0/0/0 ipv6 route 2001:DB8:ACAD:10::/64 s0/0/0

hostname R3
no ip domain-lookup
ipv6 unicast-routing

int g0/0

description vers Marche
ip add 192.168.20.1 255.255.255.0
ipv6 address 2001:DB8:ACAD:20::1/64
ipv6 address FE80::3 link-local
no shut

int s0/0/0

description vers R4
ip add 10.10.10.14 255.255.255.252
ipv6 add 2001:DB8:ACAD:103::2/64
ipv6 address FE80::3 link-local
no shut

int s0/0/1

description vers R2
ip add 10.10.10.6 255.255.255.252
ipv6 add 2001:DB8:ACAD:101::2/64
ipv6 address FE80::3 link-local
no shut

! Pour accéder au réseau de Namur ip route 192.168.10.0 255.255.255.0 s0/0/0 ip route 192.168.10.0 255.255.255.0 s0/0/1 ipv6 route 2001:DB8:ACAD:10::/64 s0/0/0 ipv6 route 2001:DB8:ACAD:10::/64 s0/0/1 hostname R4
no ip domain-lookup
ipv6 unicast-routing

int s0/0/0

description vers R3
ip add 10.10.10.13 255.255.255.252
ipv6 add 2001:DB8:ACAD:103::1/64
ipv6 address FE80::4 link-local
no shut

int s0/0/1

description vers R1
ip add 10.10.10.10 255.255.255.252
ipv6 add 2001:DB8:ACAD:102::2/64
ipv6 address FE80::4 link-local
no shut

! Pour accéder au réseau de Marche - Passer par R3 ip route 192.168.20.0 255.255.255.0 s0/0/0 ipv6 route 2001:DB8:ACAD:20::/64 s0/0/0

! Pour accéder au réseau de Namur - Passer par R1 ip route 192.168.10.0 255.255.255.0 s0/0/1 ipv6 route 2001:DB8:ACAD:10::/64 s0/0/1

Server A

ipv4 address	192.168.20.10
Subnet Mask	255.255.255.0
Default Gateway	192.168.20.1
DNS Server	192.168.20.250

ipv6 address	2001:DB8:ACAD:20::10/64
link local address	FE80::10
ipv6 gateway	2001:DB8:ACAD:20::1
ipv6 DNS Server	2001:DB8:ACAD:20::250

Server DNS

ipv4 address	192.168.20.250
Subnet Mask	255.255.255.0
Default Gateway	192.168.20.1
DNS Server	192.168.20.250

ipv6 address	2001:DB8:ACAD:20::250/64
link local address	FE80::250
ipv6 gateway	2001:DB8:ACAD:20::1
ipv6 DNS Server	2001:DB8:ACAD:20::250

(DNS)

Domain name	Record Type	Value
server_a	A	192.168.20.250
server_a_v6	AAAA	2001:DB8:ACAD:20::250