

Le routage statique IPv6

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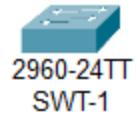
Préparation du Labo

équipements

2 Routeurs nommé R1 et R2 (modèle 2911)

2 Switchs nommé SWT-1 et SWT-2

2 PC nommé PC-A PC-B

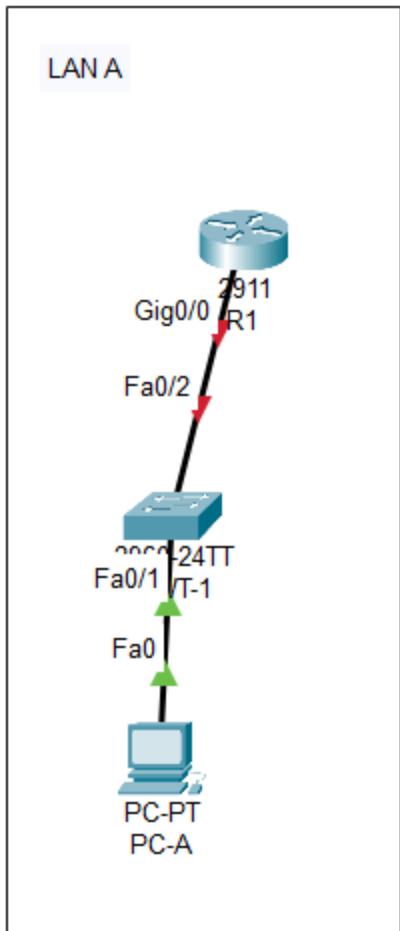


Topologie

LAN A

PC-A => SWT-1 port Fa 0/1

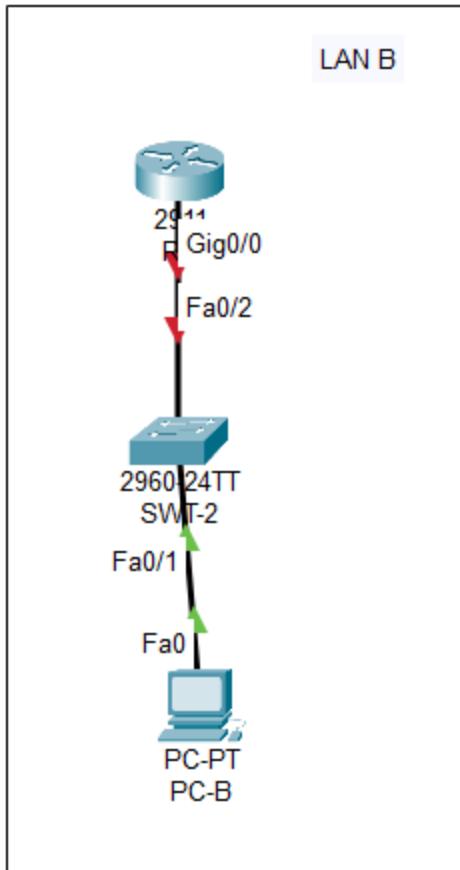
SWT-1 port Fa0/2 => R1 port Gig0/0



LAN B

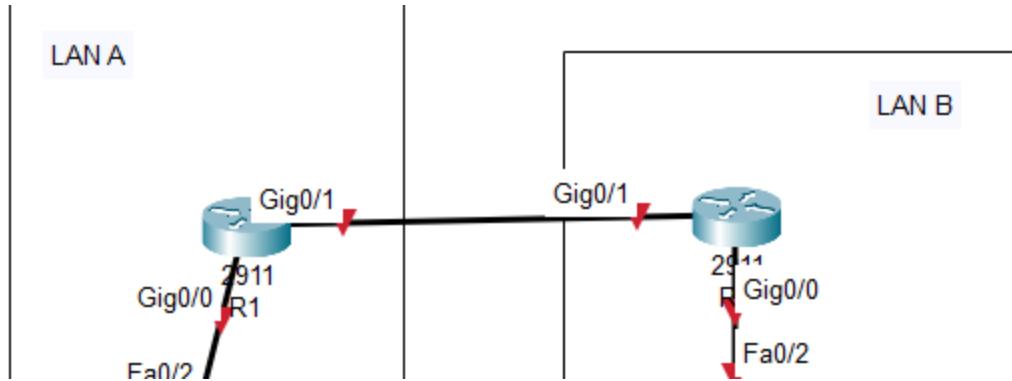
PC-B => SWT-2 port Fa0/1

SWT-2 port Fa0/2 => R2 port Gig0/0



Lien WAN

R1 port Gig0/1 => R2 port Gig0/1



Adressage

LAN A (2001:db8:acad:1::/64)

équipement	PC	R1
IP	2001:db8:acad:1::10/64	2001:db8:acad:1::1/64
Gateway	2001:db8:acad:1::1	

IPv6 Configuration

<input type="radio"/> Automatic	<input checked="" type="radio"/> Static
IPv6 Address	2001:db8:acad:1::10 / 64
Link Local Address	FE80::2D0:BCFF:FE80:1C20
Default Gateway	2001:db8:acad:1::1
DNS Server	
802.1X	

```
R1(config-if)#ipv6 address 2001:db8:acad:2::1/64
```

LAN B

équipement	PC	R1
IP	2001:db8:acad:2::10/64	2001:db8:acad:2::1/64
Gateway	2001:db8:acad:2::1	

IPv6 Configuration

<input type="radio"/> Automatic	<input checked="" type="radio"/> Static
IPv6 Address	2001:DB8:ACAD:2::10 / 64
Link Local Address	FE80::201:C7FF:FE9C:C1DA
Default Gateway	2001:DB8:ACAD:2::1
DNS Server	
802.1X	
<input type="checkbox"/> Use 802.1X Security	
Authentication	MD5
Username	

```
R2(config-if)#ipv6 a
R2(config-if)#ipv6 ad
R2(config-if)#ipv6 address 2001:db8:acad:2::1/64
```

Config du routage statique

Sur les router

Activer le routage IPv6 ipv6 unicast-routing

Configuration des routes statiques

R1

```
ipv6 route 2001:db8:acad:2::/64 2001:db8:feed::2
```

Traduction

Pour atteindre le réseau 2001:db8:acad:2::/64 , envoie les paquets au prochain saut, qui est l'interface WAN de R2 à l'adresse 2001:db8:feed::2

R2

```
ipv6 route 2001:db8:acad:1::/64 2001:db8:feed::1
```

Vérification

```
R1(config)#do show ipv6 route
IPv6 Routing Table - 3 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
C  2001:DB8:ACAD:2::/64 [0/0]
    via GigabitEthernet0/0, directly connected
L  2001:DB8:ACAD:2::1/128 [0/0]
    via GigabitEthernet0/0, receive
L  FF00::/8 [0/0]
    via GigabitEthernet0/0, receive
```