

IPv6 CONFIGURATION

Matiere: Conception et

Implémentation

d'un Réseau

Sécurisé

Code: NET379

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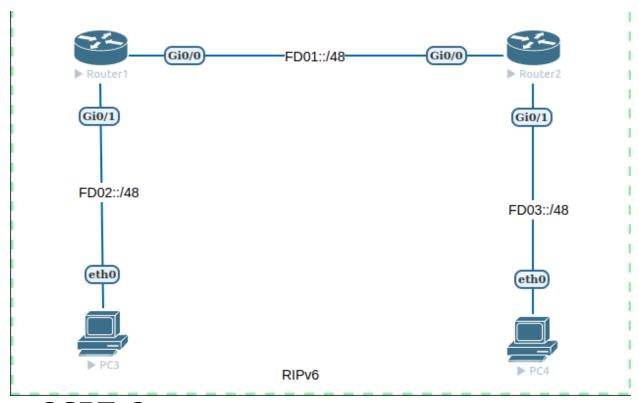
Emmanuel

Annee universitaire: 2021-

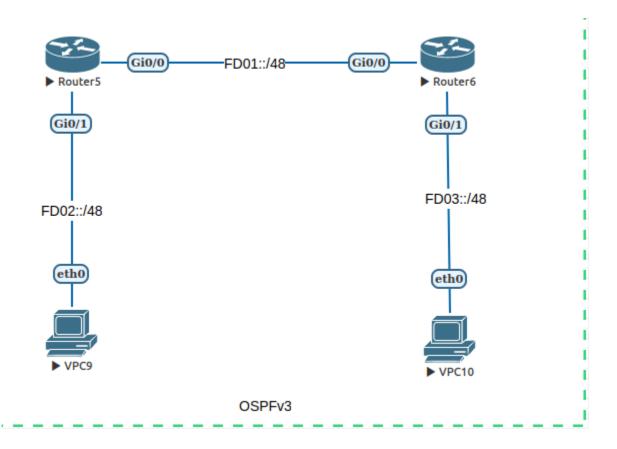
2022

Topologie

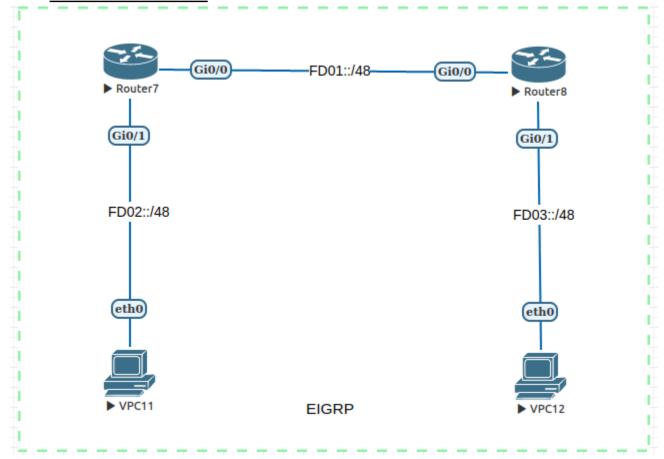
· RIPv6



• OSPFv3



• EIGRP IPv6



Configuration

• <u>PC</u>

PC3 - VPC9 - VPC11: FD02::2/48

PC4 - VPC10 - VPC12: FD03::2/48

· Routers

> **RIPv6**

Router1#sh run hostname Router1 ipv6 unicast-routing ipv6 cef interface GigabitEthernet0/0 no ip address duplex auto speed auto media-type rj45 ipv6 address FD01::1/48 ipv6 rip Emma enable interface GigabitEthernet0/1 no ip address duplex auto speed auto media-type rj45 ipv6 address FD02::1/48 ipv6 rip Emma enable ipv6 router rip Emma end Router1# Router2#sh run hostname Router2 ipv6 unicast-routing ipv6 cef interface GigabitEthernet0/0 no ip address duplex auto speed auto media-type rj45 ipv6 address FD01::2/48 ipv6 rip Emma enable interface GigabitEthernet0/1 no ip address duplex auto speed auto media-type rj45

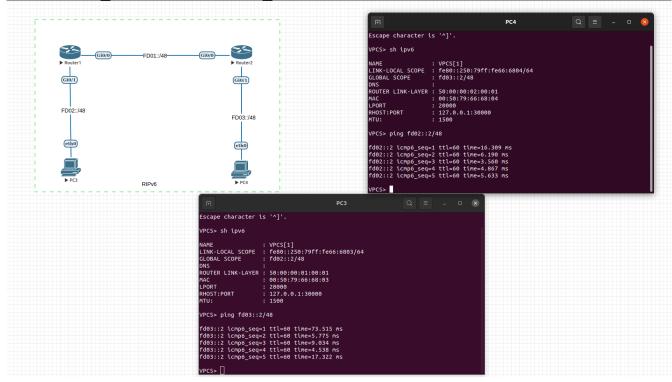
ipv6 address	interface
FD03::1/48	GigabitEthernet0/1
ipv6 rip Emma enable	no ip address
!	duplex auto
ipv6 router rip Emma	speed auto
!	media-type rj45
end	ipv6 address
Router2#	FD02::1/48
	ipv6 ospf 1 area 1
> OSPFv3	!
Router5#sh run	router ospfv3 1
Building configuration	router-id 1.1.1.1
	area 1 stub no-
hostname Router5	summary
!	!
ipv6 unicast-routing	address-family ipv6
ipv6 cef	unicast
!	exit-address-family
interface	!
GigabitEthernet0/0	!
no ip address	end
duplex auto	
speed auto	Router5#
media-type rj45	
ipv6 address	Router6#sh run
FD01::1/48	Building configuration
ipv6 ospf 1 area 1	
!	!

hostname Router6	area 1 stub no-
!	summary
ipv6 unicast-routing	!
ipv6 cef	address-family ipv6
!	unicast
interface	exit-address-family
GigabitEthernet0/0	!
no ip address	end
duplex auto	
speed auto	Router6#
media-type rj45	
ipv6 address	> EIGRP IPv6
FD01::2/48	Router7#sh run
ipv6 ospf 1 area 1	Building configuration
!	
interface	!
GigabitEthernet0/1	hostname Router7
no ip address	!
duplex auto	ipv6 unicast-routing
speed auto	ipv6 cef
media-type rj45	!
ipv6 address	interface
FD03::1/48	GigabitEthernet0/0
ipv6 ospf 1 area 1	no ip address
!	duplex auto
router ospfv3 1	speed auto
router-id 2.2.2.2	media-type rj45

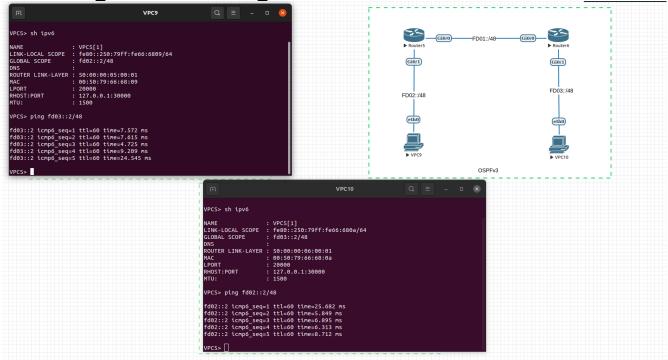
ipv6 address	ipv6 cef
FD01::1/48	!
ipv6 eigrp 1	interface
!	GigabitEthernet0/0
interface	no ip address
GigabitEthernet0/1	duplex auto
no ip address	speed auto
duplex auto	media-type rj45
speed auto	ipv6 address
media-type rj45	FD01::2/48
ipv6 address	ipv6 eigrp 1
FD02::1/48	!
ipv6 eigrp 1	interface
!	GigabitEthernet0/1
ipv6 router eigrp 1	no ip address
eigrp router-id 1.1.1.1	duplex auto
!	speed auto
end	media-type rj45
	ipv6 address
Router7#	FD03::1/48
	ipv6 eigrp 1
Router8#sh run	I
Building configuration	iny6 router eiarn 1
Danaing Conniguration	eigrp router-id 2.2.2.2
1	
hostnama Dautaro	i ond
hostname Router8	end
ing unique transfer	Doutor0#
ipv6 unicast-routing	Router8#

Quelques tests en images

> Ping avec configuration RIPv6



> Ping avec configuration OSPFv3



> Ping avec configuration EIGRP IPv6

