

Dynamic Multipoint VPN CONFIGURATION

IPNET INSTITUTE OF TECHNOLOGY

Matiere: Conception et
Implémentation
d'un Réseau

Sécurisé

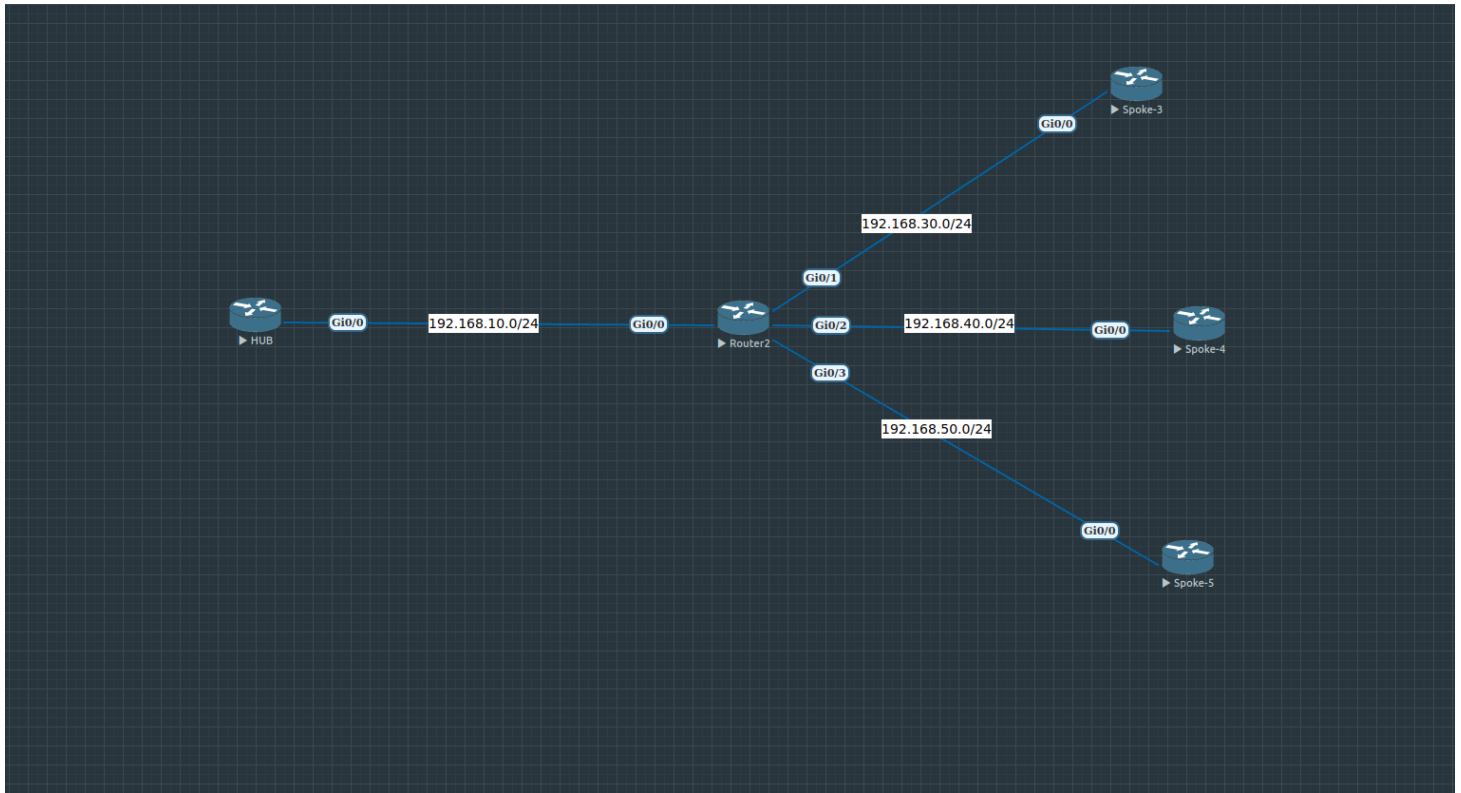
Code: NET379

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Annee universitaire:2021-2022

TOPOLOGIE



- HUB

HUB#sh run

Building configuration...

hostname HUB

!

!

crypto isakmp policy 1

encr 3des

hash md5

authentication pre-share

crypto isakmp key 6

Emma@2204 address 0.0.0.0

!

!

**crypto ipsec transform-set
venus esp-3des**

mode tunnel

!

crypto ipsec profile DMVPN

set transform-set venus

!

interface Tunnel0

ip address 100.100.100.1

255.255.255.0

no ip redirects

ip mtu 1416

**ip nhrp map multicast
dynamic**

ip nhrp network-id 1

tunnel source 192.168.10.2

tunnel mode gre multipoint

**tunnel protection ipsec profile
DMVPN**

!

interface GigabitEthernet0/0

ip address 192.168.10.2

255.255.255.0

duplex full

speed 100

media-type rj45

!

ip route 192.168.30.2

255.255.255.255 192.168.10.1

ip route 192.168.40.2

255.255.255.255 192.168.10.1

ip route 192.168.50.2

255.255.255.255 192.168.10.1

!

end

HUB#

Router2

Router2#sh run	interface GigabitEthernet0/1
Building configuration...	ip address 192.168.30.1
	255.255.255.0
! Last configuration change at	duplex auto
12:34:25 UTC Thu Mar 24 2022	speed auto
!	media-type rj45
hostname Router2	!
!	interface GigabitEthernet0/2
interface Loopback0	ip address 192.168.40.1
no ip address	255.255.255.0
!	duplex auto
interface GigabitEthernet0/0	speed auto
ip address 192.168.10.1	media-type rj45
255.255.255.0	!
duplex auto	interface GigabitEthernet0/3
speed auto	ip address 192.168.50.1
media-type rj45	255.255.255.0
!	duplex auto
	speed auto

media-type rj45

!

!

end

Router2#

Spoke-3

Spoke-3#sh run

Building configuration...

!

! Last configuration change at
12:34:35 UTC Thu Mar 24 2022

!

hostname Spoke-3

!

crypto isakmp policy 1

encr 3des

hash md5

authentication pre-share

crypto isakmp key 6

Emma@2204 address 0.0.0.0

!

!

crypto ipsec transform-set

venus esp-3des

mode tunnel

!

crypto ipsec profile DMVPN

set transform-set venus

!

interface Loopback0

ip address 3.3.3.3 255.255.255.0

!

interface Tunnel0

ip address 100.100.100.2

255.255.255.0

no ip redirects	!
ip mtu 1416	ip route 192.168.10.2
ip nhrp map 100.100.100.1	255.255.255.255 192.168.30.1
192.168.10.2	!
ip nhrp map multicast	end
192.168.10.2	
ip nhrp network-id 1	Spoke-3#
ip nhrp nhs 100.100.100.1	<u>Spoke-4</u>
tunnel source 192.168.30.2	Spoke-4#sh run
tunnel mode gre multipoint	! Last configuration change at
tunnel protection ipsec profile	12:27:28 UTC Thu Mar 24 2022
DMVPN	!
!	hostname Spoke-4
interface GigabitEthernet0/0	!
ip address 192.168.30.2	crypto isakmp policy 1
255.255.255.0	encr 3des
duplex auto	hash md5
speed auto	authentication pre-share
media-type rj45	

**crypto isakmp key 6
Emma@2204 address 0.0.0.0**

!

!

**crypto ipsec transform-set
venus esp-3des**

mode tunnel

!

**crypto ipsec profile DMVPN
set transform-set venus**

!

interface Loopback0

ip address 4.4.4.4 255.255.255.0

!

interface Tunnel0

**ip address 100.100.100.3
255.255.255.0**

no ip redirects

ip mtu 1416

**ip nhrp map 100.100.100.1
192.168.10.2**

**ip nhrp map multicast
192.168.10.2**

ip nhrp network-id 1

ip nhrp nhs 100.100.100.1

tunnel source 192.168.40.2

tunnel mode gre multipoint

**tunnel protection ipsec profile
DMVPN**

!

interface GigabitEthernet0/0

**ip address 192.168.40.2
255.255.255.0**

duplex auto

speed auto

media-type rj45

!

ip route 192.168.10.2

255.255.255.255 192.168.40.1

!

end

Spoke-4#

Spoke-5

Spoke-5#sh run

!

! Last configuration change at
12:26:59 UTC Thu Mar 24 2022

!

hostname Spoke-5

!

crypto isakmp policy 1

encr 3des

hash md5

authentication pre-share

crypto isakmp key 6

Emma@2204 address 0.0.0.0

!

crypto ipsec transform-set

venus esp-3des

mode tunnel

!

crypto ipsec profile DMVPN

set transform-set venus

!

interface Loopback0

ip address 5.5.5.5 255.255.255.0

!

interface Tunnel0

ip address 100.100.100.4

255.255.255.0

no ip redirects

ip mtu 1416

ip nhrp map 100.100.100.1	!
192.168.10.2	
ip nhrp map multicast	ip route 192.168.10.2
192.168.10.2	255.255.255.255 192.168.50.1
	!
ip nhrp network-id 1	
	end
ip nhrp nhs 100.100.100.1	
tunnel source 192.168.50.2	Spoke-5#
tunnel mode gre multipoint	
tunnel protection ipsec profile	
DMVPN	
!	
interface GigabitEthernet0/0	
ip address 192.168.50.2	
255.255.255.0	
duplex auto	
speed auto	
media-type rj45	

Test de ping des adresses tunnel

