

R Privé:

Configuration DHCP

ip dhcp excluded-address 192.255.10.126

ip dhcp excluded-address 192.255.20.126

ip dhcp excluded-address 192.255.30.126

ip dhcp pool POOL10

- network 192.255.10.0 255.255.255.128
- default-router 192.255.10.126
- dns-server 200.0.0.20

ip dhcp pool POOL20

- network 192.255.20.0 255.255.255.128
- default-router 192.255.20.126
- dns-server 200.0.0.20

ip dhcp pool POOL30

- network 192.255.30.0 255.255.255.128
- default-router 192.255.30.126
- dns-server 200.0.0.20

ip dhcp pool POOL1

- network 192.255.1.0 255.255.255.128
- default-router 192.255.1.126

Configuration du Vpn

crypto isakmp policy 10

- encr aes
- authentication pre-share
- group 2

crypto isakmp key CLESECRETE address 223.255.13.2

crypto ipsec security-association lifetime seconds 86400

crypto ipsec transform-set VPNLABO esp-aes esp-sha-hmac

crypto map CARTEVPN 10 ipsec-isakmp

- set peer 223.255.13.2
- set security-association lifetime seconds 86400
- set transform-set VPNLABO
- match address VPN

ip access-list extended VPN

- permit ip 192.255.10.0 0.0.0.255 222.255.10.0 0.0.0.255

Configuration Interface

interface FastEthernet0/0

- ip address 200.0.0.253 255.255.255.0
- ip access-group 50 out // configuration du ACL
- ip nat outside // configuration du NAT
- crypto map CARTEVPN

interface FastEthernet0/1.1

- encapsulation dot1Q 100
- ip address 192.255.10.126 255.255.255.128
- ip helper-address 192.255.1.1
- ip nat inside // configuration du NAT

interface FastEthernet0/1.2

- encapsulation dot1Q 200
- ip address 192.255.20.126 255.255.255.128
- ip nat inside // configuration du NAT

interface FastEthernet0/1.3

- encapsulation dot1Q 300
- ip address 192.255.30.126 255.255.255.128

interface FastEthernet0/1.5

- encapsulation dot1Q 10
- ip address 192.255.1.126 255.255.255.128

Configuration Protocol de Communication

router ospf 10

- network 200.0.0.0 0.0.0.255 area 0

ip nat inside source list 1 interface FastEthernet0/0 overload

Configuration ACL

access-list 50 deny 192.255.30.0 0.0.0.255

access-list 50 deny host 200.0.0.30

R DMZ:

Configuration Interface

interface FastEthernet0/0

- ip address 200.0.0.254 255.255.255.0

interface FastEthernet0/1

- ip address 223.255.10.2 255.255.255.252

router ospf 10

- log-adjacency-changes
- redistribute bgp 110 subnets
- network 200.0.0.0 0.0.0.255 area 0

Configuration Protocol de Communication

router bgp 110

- bgp log-neighbor-changes
- neighbor 223.255.10.1 remote-as 100
- network 223.255.10.0
- redistribute ospf 10

R Internet:

Configuration Interface

interface FastEthernet0/0

- ip address 223.255.10.1 255.255.255.252

interface FastEthernet0/1

- ip address 223.255.11.1 255.255.255.252

interface Ethernet0/0/0

- ip address 223.255.12.1 255.255.255.252

interface Ethernet0/1/0

- ip address 223.255.13.1 255.255.255.252

Configuration Protocol de Communication

router bgp 100

- neighbor 223.255.11.2 remote-as 111
- neighbor 223.255.12.2 remote-as 112
- neighbor 223.255.13.2 remote-as 113
- neighbor 223.255.10.2 remote-as 110

R Réseau 1:

Configuration Interface

interface FastEthernet0/0

- ip address 223.255.12.2 255.255.255.252
- ip nat outside // configuration du NAT

interface FastEthernet0/1

- ip address 222.255.20.1 255.255.255.0
- ip nat inside // configuration du NAT

ip route 0.0.0.0 0.0.0.0 223.255.12.1

Configuration Protocol de Communication

router bgp 112

neighbor 223.255.12.1 remote-as 100
network 223.255.12.0

ip nat inside source list 1 interface FastEthernet0/0 overload

R Réseau 2:

Configuration du Vpn

crypto isakmp policy 10

- encr aes
- authentication pre-share
- group 2

crypto isakmp key CLESECRETE address 200.0.0.253

crypto ipsec security-association lifetime seconds 86400

crypto ipsec transform-set VPNLABO esp-aes esp-sha-hmac

crypto map CARTEVPN 10 ipsec-isakmp

- set peer 200.0.0.253
- set security-association lifetime seconds 86400
- set transform-set VPNLABO
- match address VPN

ip access-list extended VPN

- permit ip 222.255.10.0 0.0.0.255 192.255.10.0 0.0.0.255

Configuration Interface

interface FastEthernet0/0

- ip address 223.255.13.2 255.255.255.252
- ip nat outside
- crypto map CARTEVPN

interface FastEthernet0/1

- ip address 222.255.10.1 255.255.255.0
- ip nat inside

ip route 0.0.0.0 0.0.0.0 223.255.13.1

Configuration Protocol de Communication

router bgp 113

- neighbor 223.255.13.1 remote-as 100
- network 223.255.13.0

ip nat inside source list 1 interface FastEthernet0/0 overload