

Anexo C

CONFIGURACIONES LABORATORIO GET VPN NOC CORPORATIVO

El anexo presenta las configuraciones finales desarrolladas sobre cada uno de los equipos que componen la topología del laboratorio GET VPN.

CONFIGURACIONES LABORATORIO GET VPN NOC CORPORATIVO

GERENCIA DE GESTION DE RED

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DICIEMBRE DE 2014

BOGOTÁ

AVANCE PROYECTO GET VPN		
NOC CORPORATIVO - CLARO SOLUCIONES FIJAS S.A.		
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CONTROL DE MODIFICACIONES

<i>Fecha de Cambio</i>	Versión	Cambiado Por:	Secciones Cambiadas	Motivo del Cambio
2014-12-23	1	José Sánchez	Todas	Primera versión del Documento.

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1. Configuración Switch GETVPN

La dirección IP asignada al Switch GETVPN es 192.168.200.20

```

SWITCH_GETVPN#
SWITCH_GETVPN#
SWITCH_GETVPN#sh run
Building configuration...

Current configuration : 4135 bytes
!
version 12.2
no service pad
service timestamps debug datetime msec
service timestamps log datetime msec
service password-encryption
!
hostname SWITCH_GETVPN
!
boot-start-marker
boot-end-marker
!
enable secret 5 $1$VTb7$BHFU1nWHgRi9W2ta/3rQc1
!
username gestion password 7 09414F07180212005A5853
no aaa new-model
system mtu routing 1500
vtp domain BOGLAN01
vtp mode transparent
ip subnet-zero
!
!
!
!
crypto pki trustpoint TP-self-signed-3878318592
enrollment selfsigned
subject-name cn=IOS-Self-Signed-Certificate-3878318592
revocation-check none
rsakeypair TP-self-signed-3878318592

```

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!
!

crypto pki certificate chain TP-self-signed-3878318592

certificate self-signed 01

3082023F 308201A8 A0030201 02020101 300D0609 2A864886 F70D0101 04050030
31312F30 2D060355 04031326 494F532D 53656C66 2D536967 6E65642D 43657274
69666963 6174652D 33383738 33313835 3932301E 170D3933 30333031 30303030
35395A17 0D323030 31303130 30303030 305A3031 312F302D 06035504 03132649
4F532D53 656C662D 5369676E 65642D43 65727469 66696361 74652D33 38373833
31383539 3230819F 300D0609 2A864886 F70D0101 01050003 818D0030 81890281
81009A3F 7AEB446B 9A2FB82F 045824FB 91073EBB AFF9FBB5 5FBF25F1 C76F09BB
3F3158E3 9753F2E8 08C4DE74 8BCB6905 1F34382C D8FFD44A 3AF06AED 8498436C
FD7076A6 9B04FA04 F300315E 36CC2000 BD1A79A6 8F3B90A5 78A3B961 37C672F3
CCBAD955 AD40CB65 A5B439EF 6A3F93C2 72BE30B3 B777FF18 72A78C1D 22251D2B
01B10203 010001A3 67306530 0F060355 1D130101 FF040530 030101FF 30120603
551D1104 0B300982 07537769 7463682E 301F0603 551D2304 18301680 14F8C80E
091C64B2 D0EBC367 48A02AF7 FDA922F9 FE301D06 03551D0E 04160414 F8C80E09
1C64B2D0 EBC36748 A02AF7FD A922F9FE 300D0609 2A864886 F70D0101 04050003
81810013 6BC1438F 3CBDC542 C1F61EAF 2E8711E1 1FB14B20 FDA0B527 8D0FC1F6
58C71C51 216CA7BE 2FCA915E EA904B6B BA2E4DA0 D0375A44 8BD0D902 5C32A50F
AB4FCC59 EA73A568 941C6047 C5B8159A 656FB64F 6D4018E3 365B90BE A3F89D60
D56DC84A 8B27AC90 4A2B9607 C2522668 33CD31E7 AA2F0BCD 7B4D5376 4531AF7E 4B483A
quit

!
!
!
!
!
!

spanning-tree mode pvst
spanning-tree extend system-id
no spanning-tree vlan 800
spanning-tree vlan 1 priority 4096
spanning-tree vlan 2-4094 priority 61440

!

vlan internal allocation policy ascending

!

vlan 5
name produccion

!

vlan 7-9

!

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```

vlan 10
 name management
!
vlan 79
!
vlan 179
 name gestion
!
!
!
interface Port-channel2
 switchport access vlan 79
 switchport mode access
!
interface FastEthernet0/1
 switchport trunk allowed vlan 1,5,7-10,179
 switchport mode trunk
!
interface FastEthernet0/2
 switchport trunk allowed vlan 1,5,8-10,179
 switchport mode trunk
!
interface FastEthernet0/3
 switchport trunk allowed vlan 1,5,9,179
 switchport mode trunk
!
interface FastEthernet0/4
 switchport trunk allowed vlan 1,5,9,179
 switchport mode trunk
!
interface FastEthernet0/5
 switchport mode access
!
interface FastEthernet0/6
!
interface FastEthernet0/7
!
interface FastEthernet0/8
!
interface FastEthernet0/9
 switchport access vlan 79
 switchport mode access

```

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```

channel-group 2 mode active
!
interface FastEthernet0/10
switchport access vlan 79
switchport mode access
speed 100
duplex full
channel-group 2 mode active
!
interface FastEthernet0/11
!
interface FastEthernet0/12
!
interface FastEthernet0/13
!
interface FastEthernet0/14
!
interface FastEthernet0/15
!
interface FastEthernet0/16
!
interface FastEthernet0/17
!
interface FastEthernet0/18
!
interface FastEthernet0/19
!
interface FastEthernet0/20
!
interface FastEthernet0/21
!
interface FastEthernet0/22
!
interface FastEthernet0/23
!
interface FastEthernet0/24
switchport trunk allowed vlan 1,7-9,179,800
!
interface GigabitEthernet0/1
!
interface GigabitEthernet0/2
!

```

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```

interface Vlan1
ip address 10.20.30.5 255.255.255.252
no ip route-cache
!
interface Vlan5
no ip address
no ip route-cache
!
interface Vlan10
ip address 172.16.16.10 255.255.255.240
no ip route-cache
!
interface Vlan179
ip address 192.168.200.20 255.255.255.0
no ip route-cache
!
ip http server
ip http secure-server
!
control-plane
!
!
line con 0
line vty 0 4
password 7 0822455D0A16
login local
line vty 5 15
login
!
end

```

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2. Configuración Key Server Principal

La dirección IP asignada al Router Key Server Principal es 192.168.200.21

```
KSPPAL#
KSPPAL#sh run
Building configuration...
```

Current configuration : 9826 bytes

```
!
! Last configuration change at 17:47:24 COT Mon Dec 22 2014 by progetvpn
! NVRAM config last updated at 16:42:41 COT Tue Dec 23 2014 by progetvpn
! NVRAM config last updated at 16:42:41 COT Tue Dec 23 2014 by progetvpn
version 15.2
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname KSPPAL
!
boot-start-marker
boot-end-marker
!
!
enable secret 4 zuWSM9yjoTo/VrLFqrIPx.y2wxmvDIYMfv6/OsEm.w
!
no aaa new-model
clock timezone COT -5 0
!
ip cef
!
!
!
!
!
```

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no ipv6 cef

!

multilink bundle-name authenticated

!

!

crypto pki server PKI_SRV

database level names

issuer-name CN = CLARO, OU = PROGETVPNUSTA, C = CO

grant auto

hash sha1

lifetime crl 4

lifetime certificate 730

lifetime ca-certificate 1825

database url flash:/PKI_SRV

!

crypto pki trustpoint PKI_SRV

revocation-check crl

rsa-keypair PKI_SRV

!

crypto pki trustpoint PKI_KS

enrollment url http://1.1.1.1:80

subject-name OU=GETVPN

revocation-check crl

rsa-keypair PKI_KS

!

!

crypto pki certificate chain PKI_SRV

certificate ca 01

```

30820348 30820230 A0030201 02020101 300D0609 2A864886 F70D0101 05050030
35310B30 09060355 04061302 434F3116 30140603 55040B13 0D50524F 47455456
504E5553 5441310E 300C0603 55040313 05434C41 524F301E 170D3134 31323232
32323239 34375A17 0D313931 32323132 32323934 375A3035 310B3009 06035504
06130243 4F311630 14060355 040B130D 50524F47 45545650 4E555354 41310E30
0C060355 04031305 434C4152 4F308201 22300D06 092A8648 86F70D01 01010500
0382010F 00308201 0A028201 0100A5F5 A539E95D 899BD2CF EBF8B07C E46740F8
402E0F92 0E2C1E36 23858FEA D0EFC6A3 ED240826 4FC520FE 0B31F6B8 5DFC16E6
75067AED 41721183 B70E8409 67835136 A3A884A0 223F21C5 633122E9 8DDA22FD
389983BE 83673F23 29948334 6F3D1108 486023A0 DED620E6 CEC89428 F38D39FC
923D965E C9897515 DC83071E AF9BDFB5 3E13E780 FED2BD75 D7A74C7D BED3DE1A
C7823181 5313C09E 034C6292 E30231C4 8672F1FD CE13A3A0 53B19457 5AD17A8A
FCA23BDF 2D2504B8 727AC8D1 F26DB962 BFFCB49D 931F2604 E9688E7C DAFA29EE
C121D577 C631675C 014FEC73 431C4DF5 8BABFA94 8B9A3280 FD4A1E5F 2CCDE3B5

```

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2A8A07F1 AF5804B9 60791412 BD0D0203 010001A3 63306130 0F060355 1D130101
FF040530 030101FF 300E0603 551D0F01 01FF0404 03020186 301F0603 551D2304
18301680 14831511 BBFE788D 94F74C09 0CBB945C 4576412D 04301D06 03551D0E
04160414 831511BB FE788D94 F74C090C BB945C45 76412D04 300D0609 2A864886
F70D0101 05050003 82010100 294BFD42 DAC3E2CB 2F868448 C4CCC99B 45FF4204
ACA45951 0A2ADD64 B37E3607 C4468730 154B25DB B84639DF 0D222BA5 80BEB466
AD50054A 2E0BB061 9A1333F3 0AB90C7E 50A48D47 0B644348 143A6B53 7C517C07
8D21AC00 4AFE4F02 A2C9040B 79BF4FE5 F3495A1A B932CAAF A14244A5 20EE2643
4D3ABDDE A4CC119D EE40146B AB177566 880CABDB C8261BCA 32C1A9D0 826779DB
45EA2D25 CD5F6E66 0750491B 2E070947 ED73927C 0597AFE3 0BC7FEA0 CD97F778
86225DB3 A8E285FC C3E54397 59FF0CBA D6CFBE7F E7D47CFB 2AB9725A C6F0D436
1F94C656 8647AB07 80199385 489A02C1 94B1A5C3 2D478A8C 59D552B3 D9ED89DB
88C2347D 75D165B7 10BCAE65

quit

crypto pki certificate chain PKI_KS

certificate 02

30820327 3082020F A0030201 02020102 300D0609 2A864886 F70D0101 05050030
35310B30 09060355 04061302 434F3116 30140603 55040B13 0D50524F 47455456
504E5553 5441310E 300C0603 55040313 05434C41 524F301E 170D3134 31323232
32323337 33395A17 0D313631 32323132 32333733 395A3028 310F300D 06035504
0B130647 45545650 4E311530 1306092A 864886F7 0D010902 16064B53 5050414C
30820122 300D0609 2A864886 F70D0101 01050003 82010F00 3082010A 02820101
009EA82E 9BF436F9 48D80221 CA5A6C1A C5A9061D F1EA4164 6EE47D76 1C4873E5
E547AEBD 49EF94D5 622902AB F7FD728A 29F9CC4F BA5F8F41 1B41A19F 75BEEF51
78F4D57D 81ED2641 6E499C26 B24148F0 A46B0F50 5B4C9A73 FCAA293C A8C05CD8
8BF32093 7F15E24F 898B2E8C 4F19A633 81B3BE6E 3CE0C75D E30C9E9E A2B05439
48910565 A79AED18 190B9143 F4F05934 5E214703 3C3897FD 3367F538 34E732A3
15C31B61 6318EC0F 4FD24D44 B60B17CF BFA30849 047AB101 0263448D 8842AB49
AC844300 FDA9FF49 75B73FF9 60B0DA1D D62633CC 9B0A5FC8 3E771F93 0B547F15
8B35945A 22E96668 A68532D7 365A94E3 B07FA4F1 26A87A2E 80EC602D 7A61E2B6
35020301 0001A34F 304D300B 0603551D 0F040403 0205A030 1F060355 1D230418
30168014 831511BB FE788D94 F74C090C BB945C45 76412D04 301D0603 551D0E04
160414A5 80849E75 24E5A43A F58DCAB9 BA8627B2 82124530 0D06092A 864886F7
0D010105 05000382 0101007E 02FDBC01 FB8D4FC4 A0A97590 F9A44764 BD71FF8A
076C532D B6894D61 0429064B 670908C6 26A11B9B 9EDBC36A D8D4CCE5 630C82B9
5DE0882F 331C3AA4 DCF61202 5A56550C 79F5B03C B6639B3E 2306B5EE 7FF1D3AC
8A1142A7 F895F397 546D2960 B6C5ADD3 F5D1C243 01F35CF9 A9D4DC21 A0DA12B6
3F009972 CD36767E 65FEAB01 E2B26C9D CA737657 6D0965E2 08DA4FF7 9772E34D
D7444CB9 EF6F8D1A 42B0F5D0 314793A5 3199B6CC E1CFDFAA 983E24F8 CB66F5A0
622A0E29 BD4CE364 2B5F0ABF 5A350AA6 FF7EB8BB 016BF252 9B4CBC45 2871AE16
E984A87D DE62B57A B5F54CD7 42EFAB48 E6C4A1CB 79861616 C14ED69B F1E0C14F
F63DC999 C72CF640 D4F148

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quit
certificate ca 01
30820348 30820230 A0030201 02020101 300D0609 2A864886 F70D0101 05050030
35310B30 09060355 04061302 434F3116 30140603 55040B13 0D50524F 47455456
504E5553 5441310E 300C0603 55040313 05434C41 524F301E 170D3134 31323232
32323239 34375A17 0D313931 32323132 32323934 375A3035 310B3009 06035504
06130243 4F311630 14060355 040B130D 50524F47 45545650 4E555354 41310E30
0C060355 04031305 434C4152 4F308201 22300D06 092A8648 86F70D01 01010500
0382010F 00308201 0A028201 0100A5F5 A539E95D 899BD2CF EBF8B07C E46740F8
402E0F92 0E2C1E36 23858FEA D0EFCA63 ED240826 4FC520FE 0B31F6B8 5DFC16E6
75067AED 41721183 B70E8409 67835136 A3A884A0 223F21C5 633122E9 8DDA22FD
389983BE 83673F23 29948334 6F3D1108 486023A0 DED620E6 CEC89428 F38D39FC
923D965E C9897515 DC83071E AF9BDFB5 3E13E780 FED2BD75 D7A74C7D BED3DE1A
C7823181 5313C09E 034C6292 E30231C4 8672F1FD CE13A3A0 53B19457 5AD17A8A
FCA23BDF 2D2504B8 727AC8D1 F26DB962 BFFCB49D 931F2604 E9688E7C DAFA29EE
C121D577 C631675C 014FEC73 431C4DF5 8BABFA94 8B9A3280 FD4A1E5F 2CCDE3B5
2A8A07F1 AF5804B9 60791412 BD0D0203 010001A3 63306130 0F060355 1D130101
FF040530 030101FF 300E0603 551D0F01 01FF0404 03020186 301F0603 551D2304
18301680 14831511 BBFE788D 94F74C09 0CBB945C 4576412D 04301D06 03551D0E
04160414 831511BB FE788D94 F74C090C BB945C45 76412D04 300D0609 2A864886
F70D0101 05050003 82010100 294BFD42 DAC3E2CB 2F868448 C4CCC99B 45FF4204
ACA45951 0A2ADD64 B37E3607 C4468730 154B25DB B84639DF 0D222BA5 80BEB466
AD50054A 2E0BB061 9A1333F3 0AB90C7E 50A48D47 0B644348 143A6B53 7C517C07
8D21AC00 4AFE4F02 A2C9040B 79BF4FE5 F3495A1A B932CAAF A14244A5 20EE2643
4D3ABDDE A4CC119D EE40146B AB177566 880CABDB C8261BCA 32C1A9D0 826779DB
45EA2D25 CD5F6E66 0750491B 2E070947 ED73927C 0597AFE3 0BC7FEA0 CD97F778
86225DB3 A8E285FC C3E54397 59FF0CBA D6CFBE7F E7D47CFB 2AB9725A C6F0D436
1F94C656 8647AB07 80199385 489A02C1 94B1A5C3 2D478A8C 59D552B3 D9ED89DB
88C2347D 75D165B7 10BCAE65

quit
license udi pid CISCO1905/K9 sn FTX181183GS
!
!
username xxxxxx password 0 xxxxxxxxx
!
redundancy
!
!
!
!
!
!

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```

!
crypto isakmp policy 10
!
crypto isakmp policy 20
authentication pre-share
group 5
crypto isakmp key cisco123 address 10.162.5.3
crypto isakmp key cisco123 address 10.162.5.4
crypto isakmp key cisco123 address 2.2.2.2
crypto isakmp keepalive 10 periodic
!
!
crypto ipsec transform-set MYSET esp-aes esp-sha-hmac
mode tunnel
!
crypto ipsec profile MYIPSECPROFILE
set transform-set MYSET
!
!
crypto gdoi group MYGETVPNGROUP
identity number 7
server local
rekey retransmit 10 number 2
rekey authentication mypubkey rsa key_rekey
rekey transport unicast
sa ipsec 10
profile MYIPSECPROFILE
match address ipv4 REDES-A-CIFRAR
replay counter window-size 64
address ipv4 1.1.1.1
redundancy
local priority 100
peer address ipv4 2.2.2.2
!
!
!
!
!
interface Loopback10
ip address 1.1.1.1 255.255.255.255
!
interface Embedded-Service-Engine0/0

```

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```

no ip address
shutdown
!
interface GigabitEthernet0/0
no ip address
duplex auto
speed auto
!
interface GigabitEthernet0/0.5
encapsulation dot1Q 5
ip address 10.162.5.1 255.255.255.248
!
interface GigabitEthernet0/0.10
encapsulation dot1Q 10
ip address 172.16.16.1 255.255.255.240
!
interface GigabitEthernet0/0.179
encapsulation dot1Q 179
ip address 192.168.200.21 255.255.255.0
!
interface GigabitEthernet0/1
ip address 10.162.5.9 255.255.255.252
duplex auto
speed auto
!
interface Serial0/0/0
no ip address
shutdown
clock rate 2000000
!
router ospf 1
network 1.1.1.1 0.0.0.0 area 0
network 10.162.5.0 0.0.0.7 area 0
network 10.162.5.8 0.0.0.3 area 0
!
ip forward-protocol nd
!
ip http server
no ip http secure-server
!
!
ip access-list extended REDES-A-CIFRAR

```

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```

deny  esp any any
deny  tcp any any eq tacacs
deny  tcp any eq tacacs any
deny  tcp any any eq 22
deny  tcp any eq 22 any
deny  tcp any any eq bgp
deny  tcp any eq bgp any
deny  ospf any any
deny  eigrp any any
deny  pim any 224.0.0.0 0.0.0.255
deny  udp any any eq ntp
deny  udp any any eq 1645
deny  udp any any eq 1646
deny  udp any any eq 1812
deny  udp any any eq 1813
deny  tcp any eq 443 any
deny  tcp any any eq 443
deny  udp any eq isakmp any eq isakmp
deny  udp any any eq 848
deny  ip host 10.162.5.1 any
deny  ip any host 10.162.5.1
permit ip 192.168.10.0 0.0.0.255 192.168.20.0 0.0.0.255
permit ip 192.168.20.0 0.0.0.255 192.168.10.0 0.0.0.255
!
!
!
!
control-plane
!
!
!
line con 0
password medellin
login
line aux 0
line 2
no activation-character
no exec
transport preferred none
transport output pad telnet rlogin lapb-ta mop udptn v120 ssh
stopbits 1
line vty 0 4

```

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```

password cisco
login local
transport input all
!
scheduler allocate 20000 1000
!
end

```

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3. Configuración Key Server Backup

La dirección IP asignada al Router Key Server Backup es 192.168.200.22

```
KSBACKUP#
KSBACKUP#sh run
Building configuration...
```

```
Current configuration : 7635 bytes
!
! Last configuration change at 19:56:46 COT Mon Dec 22 2014 by progetvpn
! NVRAM config last updated at 16:45:00 COT Tue Dec 23 2014 by progetvpn
! NVRAM config last updated at 16:45:00 COT Tue Dec 23 2014 by progetvpn
version 15.2
service timestamps debug datetime msec
service timestamps log datetime msec
service password-encryption
!
hostname KSBACKUP
!
boot-start-marker
boot-end-marker
!
!
enable secret 4 Az3Jr8ThI9bSVfU8Tm0h5ibZJlZwQKrD1C.l6DHIQEI
!
no aaa new-model
clock timezone COT -5 0
!
ip cef
!
!
!
!
!
no ipv6 cef
!
```

AVANCE PROYECTO GET VPN		
NOC CORPORATIVO - CLARO SOLUCIONES FIJAS S.A.		
FECHA	23/12/2014	

multilink bundle-name authenticated

!

!

crypto pki trustpoint PKI_KS

enrollment url http://1.1.1.1:80

subject-name OU=GETVPN

revocation-check crl

rsa-keypair PKI_KS

!

!

crypto pki certificate chain PKI_KS

certificate 07

```

30820329 30820211 A0030201 02020107 300D0609 2A864886 F70D0101 05050030
35310B30 09060355 04061302 434F3116 30140603 55040B13 0D50524F 47455456
504E5553 5441310E 300C0603 55040313 05434C41 524F301E 170D3134 31323233
30303535 33315A17 0D313631 32323230 30353533 315A302A 310F300D 06035504
0B130647 45545650 4E311730 1506092A 864886F7 0D010902 16084B53 4241434B
55503082 0122300D 06092A86 4886F70D 01010105 00038201 0F003082 010A0282
010100A3 FCF821BD 31F19BF8 BE945213 AAFA4F8E C52670BF 7B30A729 4E346207
A20A34CD D3D4E8F3 F978A4AF 60AAB96C 86F0E13E 6E885D69 2F814046 955FF149
5243BA9F 90A56F58 ACE69D82 8ED6AAAF 3F1106FF 63377FF4 DDB62DA7 1D453C58
5FE5F72F 724DF68A BC82E176 B716FB82 9E2EE7F6 52844E3C A1E78289 61BA1CB6
6C4D1E37 139C3EBC 71B62912 FD13776E 4E7CE26B 29C0B3CB 5EE6D7D3 D6A9AFA0
C3C9F56F D6CF9C6F 371DF1ED 8C2B3C36 DA226C95 5E37C5AD 043A936F 19572137
137D7874 35442FA2 630B8CF1 C8B13014 3B2EF3D5 449AD6D7 8D40F875 F52A542E
8F17C6B4 E25C0E49 C6DB8B2B EDD4BA63 781106FF EB191A17 77B1DDBF 6131965A
5C0DA102 03010001 A34F304D 300B0603 551D0F04 04030205 A0301F06 03551D23
04183016 80148315 11BBFE78 8D94F74C 090CBB94 5C457641 2D04301D 0603551D
0E041604 14959FEC A5134DF5 6C87B8F7 B677A03B 1BA91E3D 64300D06 092A8648
86F70D01 01050500 03820101 0069A34B 191386DA 312B661B FA3F98AA 5A13870E
BAB12502 049DC086 E0ED2CBA EC9E016D E5848200 425FE949 4B2B273E 0B885704
C60E05A4 20D7832E 93953DB1 BB1F640A 74895C7D 37D9FE07 88F68C96 29824A74
14985983 F7525965 7C345631 8E4ABA2B 198C1E63 C192461A E9AE9C48 FB163AD2
11E712EA 58D21657 BA7FED6C 6EEE211E 0C033033 538D96E2 495B9C84 FA5AA94E
F25347FF C488F2F5 8B9DD367 AEBE13FC 53A71379 65467B65 3B8BEF97 D6B46E52
072F84F1 6B7C36F1 8A077D07 B4061984 760BCD5A C88AFCB7 861BD307 3761DB09
6D9B7E39 2884CE3F 2EE6A81F A794656D 81E0DB46 DB909AD7 1AB12ACA B6B7662E
DA34F4E5 98C7E549 EBAAC57E 14

```

quit

certificate ca 01

```

30820348 30820230 A0030201 02020101 300D0609 2A864886 F70D0101 05050030
35310B30 09060355 04061302 434F3116 30140603 55040B13 0D50524F 47455456

```

AVANCE PROYECTO GET VPN		
NOC CORPORATIVO - CLARO SOLUCIONES FIJAS S.A.		
FECHA	23/12/2014	

504E5553 5441310E 300C0603 55040313 05434C41 524F301E 170D3134 31323232
32323239 34375A17 0D313931 32323132 32323934 375A3035 310B3009 06035504
06130243 4F311630 14060355 040B130D 50524F47 45545650 4E555354 41310E30
0C060355 04031305 434C4152 4F308201 22300D06 092A8648 86F70D01 01010500
0382010F 00308201 0A028201 0100A5F5 A539E95D 899BD2CF EBF8B07C E46740F8
402E0F92 0E2C1E36 23858FEA D0EFCA63 ED240826 4FC520FE 0B31F6B8 5DFC16E6
75067AED 41721183 B70E8409 67835136 A3A884A0 223F21C5 633122E9 8DDA22FD
389983BE 83673F23 29948334 6F3D1108 486023A0 DED620E6 CEC89428 F38D39FC
923D965E C9897515 DC83071E AF9BDFB5 3E13E780 FED2BD75 D7A74C7D BED3DE1A
C7823181 5313C09E 034C6292 E30231C4 8672F1FD CE13A3A0 53B19457 5AD17A8A
FCA23BDF 2D2504B8 727AC8D1 F26DB962 BFFCB49D 931F2604 E9688E7C DAFA29EE
C121D577 C631675C 014FEC73 431C4DF5 8BABFA94 8B9A3280 FD4A1E5F 2CCDE3B5
2A8A07F1 AF5804B9 60791412 BD0D0203 010001A3 63306130 0F060355 1D130101
FF040530 030101FF 300E0603 551D0F01 01FF0404 03020186 301F0603 551D2304
18301680 14831511 BBFE788D 94F74C09 0CBB945C 4576412D 04301D06 03551D0E
04160414 831511BB FE788D94 F74C090C BB945C45 76412D04 300D0609 2A864886
F70D0101 05050003 82010100 294BFD42 DAC3E2CB 2F868448 C4CCC99B 45FF4204
ACA45951 0A2ADD64 B37E3607 C4468730 154B25DB B84639DF 0D222BA5 80BEB466
AD50054A 2E0BB061 9A1333F3 0AB90C7E 50A48D47 0B644348 143A6B53 7C517C07
8D21AC00 4AFE4F02 A2C9040B 79BF4FE5 F3495A1A B932CAAF A14244A5 20EE2643
4D3ABDDE A4CC119D EE40146B AB177566 880CABDB C8261BCA 32C1A9D0 826779DB
45EA2D25 CD5F6E66 0750491B 2E070947 ED73927C 0597AFE3 0BC7FEA0 CD97F778
86225DB3 A8E285FC C3E54397 59FF0CBA D6CFBE7F E7D47CFB 2AB9725A C6F0D436
1F94C656 8647AB07 80199385 489A02C1 94B1A5C3 2D478A8C 59D552B3 D9ED89DB
88C2347D 75D165B7 10BCAE65

quit

license udi pid CISCO1905/K9 sn FTX181183GP

!

!

username progetvpn password 7 082B435D0C0A04191103091E

!

redundancy

!

!

!

!

!

!

!

crypto isakmp policy 10

!

crypto isakmp policy 20

AVANCE PROYECTO GET VPN		
NOC CORPORATIVO - CLARO SOLUCIONES FIJAS S.A.		
FECHA	23/12/2014	

```

authentication pre-share
group 5
crypto isakmp key cisco123 address 1.1.1.1
crypto isakmp key cisco123 address 10.162.5.3
crypto isakmp key cisco123 address 10.162.5.4
crypto isakmp keepalive 10
!
!
crypto ipsec transform-set MYSET esp-aes esp-sha-hmac
mode tunnel
!
crypto ipsec profile MYIPSECPROFILE
set transform-set MYSET
!
crypto ipsec profile MYPROFILE
set transform-set MYSET
!
!
crypto gdoi group MYGETVPNGROUP
identity number 7
server local
rekey retransmit 10 number 2
rekey authentication mypubkey rsa key_rekey
rekey transport unicast
sa ipsec 10
profile MYIPSECPROFILE
match address ipv4 REDES-A-CIFRAR
replay counter window-size 64
address ipv4 2.2.2.2
redundancy
local priority 75
peer address ipv4 1.1.1.1
!
!
crypto map MYCRYPTOMAP 10 gdoi
set group MYGETVPNGROUP
!
!
!
!
!
interface Loopback20

```

AVANCE PROYECTO GET VPN		
NOC CORPORATIVO - CLARO SOLUCIONES FIJAS S.A.		
FECHA	23/12/2014	

```

ip address 2.2.2.2 255.255.255.255
!
interface Embedded-Service-Engine0/0
no ip address
shutdown
!
interface GigabitEthernet0/0
no ip address
duplex auto
speed auto
!
interface GigabitEthernet0/0.5
encapsulation dot1Q 5
ip address 10.162.5.2 255.255.255.248
!
interface GigabitEthernet0/0.10
encapsulation dot1Q 10
ip address 172.16.16.2 255.255.255.240
!
interface GigabitEthernet0/0.179
encapsulation dot1Q 179
ip address 192.168.200.22 255.255.255.0
!
interface GigabitEthernet0/1
ip address 10.162.5.10 255.255.255.252
duplex auto
speed auto
!
interface Serial0/0/0
no ip address
shutdown
clock rate 2000000
!
router ospf 1
network 2.2.2.2 0.0.0.0 area 0
network 10.162.5.0 0.0.0.7 area 0
network 10.162.5.8 0.0.0.3 area 0
!
ip forward-protocol nd
!
no ip http server
no ip http secure-server

```

AVANCE PROYECTO GET VPN		
NOC CORPORATIVO - CLARO SOLUCIONES FIJAS S.A.		
FECHA	23/12/2014	

```

!
!
ip access-list extended REDES-A-CIFRAR
deny  esp any any
deny  tcp any any eq tacacs
deny  tcp any eq tacacs any
deny  tcp any any eq 22
deny  tcp any eq 22 any
deny  tcp any any eq bgp
deny  tcp any eq bgp any
deny  ospf any any
deny  eigrp any any
deny  pim any 224.0.0.0 0.0.0.255
deny  udp any any eq ntp
deny  udp any any eq 1645
deny  udp any any eq 1646
deny  udp any any eq 1812
deny  udp any any eq 1813
deny  tcp any eq 443 any
deny  tcp any any eq 443
deny  udp any eq isakmp any eq isakmp
deny  udp any any eq 848
deny  ip host 10.162.5.1 any
deny  ip any host 10.162.5.1
permit ip 192.168.10.0 0.0.0.255 192.168.20.0 0.0.0.255
permit ip 192.168.20.0 0.0.0.255 192.168.10.0 0.0.0.255
!
!
!
!
control-plane
!
!
!
line con 0
password 7 03095E0F03032D4540
login
line aux 0
line 2
no activation-character
no exec
transport preferred none

```

AVANCE PROYECTO GET VPN		
NOC CORPORATIVO - CLARO SOLUCIONES FIJAS S.A.		
FECHA	23/12/2014	

```

transport output pad telnet rlogin lapb-ta mop udptn v120 ssh
stopbits 1
line vty 0 4
password 7 01100F175804
login local
transport input all
!
scheduler allocate 20000 1000
!
end

```

AVANCE PROYECTO GET VPN		
NOC CORPORATIVO - CLARO SOLUCIONES FIJAS S.A.		
FECHA	23/12/2014	

4. Configuración Group Member Uno

La dirección IP asignada al Router Group Member Uno es 192.168.200.23

```
GM1#
GM1#sh run
Building configuration...
```

```
Current configuration : 6274 bytes
!
! Last configuration change at 17:48:26 COT Mon Dec 22 2014 by progetvpn
! NVRAM config last updated at 16:44:16 COT Tue Dec 23 2014 by progetvpn
! NVRAM config last updated at 16:44:16 COT Tue Dec 23 2014 by progetvpn
version 15.2
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname GM1
!
boot-start-marker
boot-end-marker
!
!
enable secret 4 S4z4sox.ba37MwTxazWDAka1TNGefPVvSLjWPUPkNQU
!
no aaa new-model
clock timezone COT -5 0
!
ip cef
!
!
!
!
!
!
no ipv6 cef
!
```

AVANCE PROYECTO GET VPN		
NOC CORPORATIVO - CLARO SOLUCIONES FIJAS S.A.		
FECHA	23/12/2014	

multilink bundle-name authenticated

!

!

crypto pki trustpoint GETVPN

enrollment url http://1.1.1.1:80

subject-name OU=GETVPN

revocation-check crl

rsa-keypair PKI_KS

auto-enroll 90 regenerate

!

!

crypto pki certificate chain GETVPN

certificate 04

```

30820324 3082020C A0030201 02020104 300D0609 2A864886 F70D0101 05050030
35310B30 09060355 04061302 434F3116 30140603 55040B13 0D50524F 47455456
504E5553 5441310E 300C0603 55040313 05434C41 524F301E 170D3134 31323232
32323434 34305A17 0D313631 32323132 32343434 305A3025 310F300D 06035504
0B130647 45545650 4E311230 1006092A 864886F7 0D010902 1603474D 31308201
22300D06 092A8648 86F70D01 01010500 0382010F 00308201 0A028201 0100D57F
88E4A86E 76A5E59C 7BC6E521 EA03164C FE10470E 40FA7330 EF2AF930 A60915A8
D4DF4113 6246A52D 75B8FC08 E86D7861 4B18E9B3 533598C7 E152EF70 42C96AF3
1237DBE9 72579E55 34377D61 4C314697 2CEFA635 8FC32BE1 224E8069 659982E0
4EE39010 EBFA477B E9CC8BAC 98CCE27B C51D1509 F8D82CBF 999600E8 7FB2A1BD
2866FD42 C2C3D3E1 39554B3B CBEAA23D E40A931A 9439D644 6FBD6BCA 36E6B96C
CD7ECF4A 89EFBEBE 46911D89 FE522519 D03A8168 19C85EC3 62C9907F DC0BCF4C
6F5C092C 605B5B45 49B581F2 5708F9B9 F4D27519 11493B83 86FDB945 9A88D9C1
789B04CC C83CE035 A1F8D184 D992F1A5 83DE2CD4 53B62DF1 D533E1C7 EC270203
010001A3 4F304D30 0B060355 1D0F0404 030205A0 301F0603 551D2304 18301680
14831511 BBFE788D 94F74C09 0CBB945C 4576412D 04301D06 03551D0E 04160414
FBFFDE9C AF56503B E8E160C8 4D1D707E CE417208 300D0609 2A864886 F70D0101
05050003 82010100 3E60AC2A E4E53882 F9E6D462 7C2F94FF 283A0267 BC55DF96
06BFC2CB 0B32BEF8 E7D8987E 80B93E18 5BA0C563 4AC4259D 9BFD8FEE E8FD343C
2D040DA8 44CED49A 67BD3A71 2E504AB4 5E86C075 92635E2F A5DAECAA BCA723D9
6B24A497 1A371756 007C37FF D297809B 7AD9CB52 DA62107B 7CB9BF83 A0366CC1
EC9D0A79 80991949 CF2169FA 7DD6A634 99DE5FB7 D6B6D882 2F3F83CA 4DD82171
32F1C984 1228774F 1034680C B0C75C37 CFDA3B41 885163E8 AA050771 E1A5A5C8
D6D13CF6 CF06319A D33B9632 415EAC21 51C094E3 612DE532 ACB8F722 C9DDA2D4
9186C35C 0378D085 14A64FBB 7755F960 5902CFCE 9986494F B1BB830F 13AFB71E
30260BC5 F602E7DD

```

quit

certificate ca 01

```

30820348 30820230 A0030201 02020101 300D0609 2A864886 F70D0101 05050030

```

AVANCE PROYECTO GET VPN		
NOC CORPORATIVO - CLARO SOLUCIONES FIJAS S.A.		
FECHA	23/12/2014	

35310B30 09060355 04061302 434F3116 30140603 55040B13 0D50524F 47455456
504E5553 5441310E 300C0603 55040313 05434C41 524F301E 170D3134 31323232
32323239 34375A17 0D313931 32323132 32323934 375A3035 310B3009 06035504
06130243 4F311630 14060355 040B130D 50524F47 45545650 4E555354 41310E30
0C060355 04031305 434C4152 4F308201 22300D06 092A8648 86F70D01 01010500
0382010F 00308201 0A028201 0100A5F5 A539E95D 899BD2CF EBF8B07C E46740F8
402E0F92 0E2C1E36 23858FEA D0EFCA63 ED240826 4FC520FE 0B31F6B8 5DFC16E6
75067AED 41721183 B70E8409 67835136 A3A884A0 223F21C5 633122E9 8DDA22FD
389983BE 83673F23 29948334 6F3D1108 486023A0 DED620E6 CEC89428 F38D39FC
923D965E C9897515 DC83071E AF9BDFB5 3E13E780 FED2BD75 D7A74C7D BED3DE1A
C7823181 5313C09E 034C6292 E30231C4 8672F1FD CE13A3A0 53B19457 5AD17A8A
FCA23BDF 2D2504B8 727AC8D1 F26DB962 BFFCB49D 931F2604 E9688E7C DAFA29EE
C121D577 C631675C 014FEC73 431C4DF5 8BABFA94 8B9A3280 FD4A1E5F 2CCDE3B5
2A8A07F1 AF5804B9 60791412 BD0D0203 010001A3 63306130 0F060355 1D130101
FF040530 030101FF 300E0603 551D0F01 01FF0404 03020186 301F0603 551D2304
18301680 14831511 BBFE788D 94F74C09 0CBB945C 4576412D 04301D06 03551D0E
04160414 831511BB FE788D94 F74C090C BB945C45 76412D04 300D0609 2A864886
F70D0101 05050003 82010100 294BFD42 DAC3E2CB 2F868448 C4CCC99B 45FF4204
ACA45951 0A2ADD64 B37E3607 C4468730 154B25DB B84639DF 0D222BA5 80BEB466
AD50054A 2E0BB061 9A1333F3 0AB90C7E 50A48D47 0B644348 143A6B53 7C517C07
8D21AC00 4AFE4F02 A2C9040B 79BF4FE5 F3495A1A B932CAAF A14244A5 20EE2643
4D3ABDDE A4CC119D EE40146B AB177566 880CABDB C8261BCA 32C1A9D0 826779DB
45EA2D25 CD5F6E66 0750491B 2E070947 ED73927C 0597AFE3 0BC7FEA0 CD97F778
86225DB3 A8E285FC C3E54397 59FF0CBA D6CFBE7F E7D47CFB 2AB9725A C6F0D436
1F94C656 8647AB07 80199385 489A02C1 94B1A5C3 2D478A8C 59D552B3 D9ED89DB
88C2347D 75D165B7 10BCAE65

quit

license udi pid CISCO1905/K9 sn FTX181183GX

!

!

username xxxxxx password 0 xxxxxxxxxx

!

redundancy

!

!

!

!

!

!

!

crypto isakmp policy 10

!

AVANCE PROYECTO GET VPN		
NOC CORPORATIVO - CLARO SOLUCIONES FIJAS S.A.		
FECHA	23/12/2014	

```

crypto isakmp policy 20
 authentication pre-share
 group 5
 lifetime 300
crypto isakmp key cisco123 address 1.1.1.1
crypto isakmp key cisco123 address 2.2.2.2
crypto isakmp keepalive 10
!
!
!
!
crypto gdoi group MYGETVPNGROUP
 identity number 7
 server address ipv4 1.1.1.1
 server address ipv4 2.2.2.2
!
!
crypto map MYCRYPTOMAP 10 gdoi
 set group MYGETVPNGROUP
!
!
!
!
!
interface Loopback30
 ip address 192.168.10.1 255.255.255.0
!
interface Embedded-Service-Engine0/0
 no ip address
 shutdown
!
interface GigabitEthernet0/0
 no ip address
 duplex half
 speed 100
!
interface GigabitEthernet0/0.5
 encapsulation dot1Q 5
 ip address 10.162.5.3 255.255.255.248
 crypto map MYCRYPTOMAP
!
interface GigabitEthernet0/0.179

```

AVANCE PROYECTO GET VPN		
NOC CORPORATIVO - CLARO SOLUCIONES FIJAS S.A.		
FECHA	23/12/2014	

```

encapsulation dot1Q 179
ip address 192.168.200.23 255.255.255.0
!
interface GigabitEthernet0/1
no ip address
shutdown
duplex auto
speed auto
!
interface Serial0/0/0
no ip address
shutdown
clock rate 2000000
!
router ospf 1
network 10.162.5.0 0.0.0.7 area 0
network 192.168.10.0 0.0.0.255 area 0
!
ip forward-protocol nd
!
no ip http server
no ip http secure-server
!
!
!
!
!
control-plane
!
!
!
line con 0
password medellin
login
line aux 0
line 2
no activation-character
no exec
transport preferred none
transport output pad telnet rlogin lapb-ta mop udptn v120 ssh
stopbits 1
line vty 0 4

```

AVANCE PROYECTO GET VPN		
NOC CORPORATIVO - CLARO SOLUCIONES FIJAS S.A.		
FECHA	23/12/2014	

```

password cisco
login local
transport input all
!
scheduler allocate 20000 1000
!
end

```

AVANCE PROYECTO GET VPN		
NOC CORPORATIVO - CLARO SOLUCIONES FIJAS S.A.		
FECHA	23/12/2014	

5. Configuración Group Member Dos

La dirección IP asignada al Router Group Member Dos es 192.168.200.24

GM2#

GM2#sh run

Building configuration...

Current configuration : 6335 bytes

!

! Last configuration change at 18:02:54 COT Mon Dec 22 2014 by progetvpn

! NVRAM config last updated at 16:44:56 COT Tue Dec 23 2014 by progetvpn

! NVRAM config last updated at 16:44:56 COT Tue Dec 23 2014 by progetvpn

version 15.2

service timestamps debug datetime msec

service timestamps log datetime msec

no service password-encryption

!

hostname GM2

!

boot-start-marker

boot-end-marker

!

!

enable secret 5 \$1\$yOqG\$/ZGiu80r8I/k0hr.GJmM3.

!

no aaa new-model

clock timezone COT -5 0

!

ip cef

!

!

!

!

!

!

no ipv6 cef

AVANCE PROYECTO GET VPN		
NOC CORPORATIVO - CLARO SOLUCIONES FIJAS S.A.		
FECHA	23/12/2014	

!
multilink bundle-name authenticated

!
!
crypto pki trustpoint GETVPN
enrollment url http://1.1.1.1:80
subject-name OU=GETVPN
revocation-check crl
rsa-keypair PKI_KS
auto-enroll 90 regenerate

!
!
crypto pki certificate chain GETVPN

certificate 06
30820324 3082020C A0030201 02020106 300D0609 2A864886 F70D0101 05050030
35310B30 09060355 04061302 434F3116 30140603 55040B13 0D50524F 47455456
504E5553 5441310E 300C0603 55040313 05434C41 524F301E 170D3134 31323232
32333031 33335A17 0D313631 32323132 33303133 335A3025 310F300D 06035504
0B130647 45545650 4E311230 1006092A 864886F7 0D010902 1603474D 32308201
22300D06 092A8648 86F70D01 01010500 0382010F 00308201 0A028201 0100B5C8
926A2A43 F808A36D 38CD7757 C5640354 50CF0382 E39F6D3C B5764466 9F3D8619
5E41ADA8 81DFB6BF 6B48D873 523FD4D8 1F4EBC9C 86D28D37 82E43F80 C231F5F6
64E10F01 18FEB5C4 96C00DDA 625501F7 0E5A7B9D D90EB883 B9D20FE7 69772A1C
C94EC3E7 6FCD7105 1399AE55 95177892 D0BBF297 1CB7EA59 A1AD8B1D F33B757D
4CBCB4DC 2F4D30ED 3F77EADD 87EE36A9 35F60CEB 8E716BD4 A30177CB E3EDA893
E23BBEC4 C06BDA57 E91F5B0D 5EA981B8 FAA44114 8B511646 BE521F67 355D21B5
1D157439 AE802890 CF1A0BD2 3BBF6289 C2375ABE 9D0A21FE 73BE1B8E C34B1D60
1091174D 83464E2A 62498238 73B13115 833FC59A CEF829D7 582AC91F 7F730203
010001A3 4F304D30 0B060355 1D0F0404 030205A0 301F0603 551D2304 18301680
14831511 BBFE788D 94F74C09 0CBB945C 4576412D 04301D06 03551D0E 04160414
6E8C3745 95D13E53 65FF0C6F 4BF07541 1CBF3A73 300D0609 2A864886 F70D0101
05050003 82010100 508602F5 2F818320 514DF47D 5BC6CC7A F97E7700 6875825B
84FD0125 1CCE8F9D 6B60487D 19BB0F7F 15275E82 122A019C CF44186E 675813C1
80C05B81 00078203 760F20B8 1DB98493 C8759D9F 2548EDC7 99DD81F2 3E70097E
6B8BBD97 C3EC9C55 C7565F5F 28B2D90A 6DAFAC54 B3F13386 A4BD7E15 927340DA
A9D3D733 33D49628 31446B7B 0FD4782A EC7B8E85 ADDCE1E2 B3A2A616 57ED2B16
8D570949 549A06A0 DD598C7F A38979E0 075772BB 9631219E F55512CB C5E504F9
EEC94BCD DC041823 0F489EE5 48BB2DB0 4D6B9DF9 BD7A06B4 93635BAE 3760DAB8
08ED5E42 54B6C576 7A417573 BD803374 51911886 A40876A8 3B123375 7C994A01
BC794C53 C9F972DE

quit
certificate ca 01

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30820348 30820230 A0030201 02020101 300D0609 2A864886 F70D0101 05050030
35310B30 09060355 04061302 434F3116 30140603 55040B13 0D50524F 47455456
504E5553 5441310E 300C0603 55040313 05434C41 524F301E 170D3134 31323232
32323239 34375A17 0D313931 32323132 32323934 375A3035 310B3009 06035504
06130243 4F311630 14060355 040B130D 50524F47 45545650 4E555354 41310E30
0C060355 04031305 434C4152 4F308201 22300D06 092A8648 86F70D01 01010500
0382010F 00308201 0A028201 0100A5F5 A539E95D 899BD2CF EBF8B07C E46740F8
402E0F92 0E2C1E36 23858FEA D0EFCA63 ED240826 4FC520FE 0B31F6B8 5DFC16E6
75067AED 41721183 B70E8409 67835136 A3A884A0 223F21C5 633122E9 8DDA22FD
389983BE 83673F23 29948334 6F3D1108 486023A0 DED620E6 CEC89428 F38D39FC
923D965E C9897515 DC83071E AF9BDFB5 3E13E780 FED2BD75 D7A74C7D BED3DE1A
C7823181 5313C09E 034C6292 E30231C4 8672F1FD CE13A3A0 53B19457 5AD17A8A
FCA23BDF 2D2504B8 727AC8D1 F26DB962 BFFCB49D 931F2604 E9688E7C DAFA29EE
C121D577 C631675C 014FEC73 431C4DF5 8BABFA94 8B9A3280 FD4A1E5F 2CCDE3B5
2A8A07F1 AF5804B9 60791412 BD0D0203 010001A3 63306130 0F060355 1D130101
FF040530 030101FF 300E0603 551D0F01 01FF0404 03020186 301F0603 551D2304
18301680 14831511 BBFE788D 94F74C09 0CBB945C 4576412D 04301D06 03551D0E
04160414 831511BB FE788D94 F74C090C BB945C45 76412D04 300D0609 2A864886
F70D0101 05050003 82010100 294BFD42 DAC3E2CB 2F868448 C4CCC99B 45FF4204
ACA45951 0A2ADD64 B37E3607 C4468730 154B25DB B84639DF 0D222BA5 80BEB466
AD50054A 2E0BB061 9A1333F3 0AB90C7E 50A48D47 0B644348 143A6B53 7C517C07
8D21AC00 4AFE4F02 A2C9040B 79BF4FE5 F3495A1A B932CAAF A14244A5 20EE2643
4D3ABDDE A4CC119D EE40146B AB177566 880CABDB C8261BCA 32C1A9D0 826779DB
45EA2D25 CD5F6E66 0750491B 2E070947 ED73927C 0597AFE3 0BC7FEA0 CD97F778
86225DB3 A8E285FC C3E54397 59FF0CBA D6CFBE7F E7D47CFB 2AB9725A C6F0D436
1F94C656 8647AB07 80199385 489A02C1 94B1A5C3 2D478A8C 59D552B3 D9ED89DB
88C2347D 75D165B7 10BCAE65

quit

license udi pid CISCO1905/K9 sn FTX182182B3

!

!

username xxxxxx password 0 xxxxxxxxxx

!

redundancy

!

!

!

!

!

!

!

crypto isakmp policy 10

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```

!
crypto isakmp policy 20
 authentication pre-share
 group 5
 lifetime 300
crypto isakmp key cisco123 address 1.1.1.1
crypto isakmp key cisco123 address 2.2.2.2
crypto isakmp keepalive 10
!
!
crypto ipsec transform-set VPNSET esp-aes esp-sha-hmac
 mode transport
!
!
crypto gdoi group MYGETVPNGROUP
 identity number 7
 server address ipv4 1.1.1.1
 server address ipv4 2.2.2.2
!
!
!
crypto map MYCRYPTOMAP 10 gdoi
 set group MYGETVPNGROUP
!
!
!
!
!
interface Loopback40
 ip address 192.168.20.1 255.255.255.0
!
interface Embedded-Service-Engine0/0
 no ip address
 shutdown
!
interface GigabitEthernet0/0
 no ip address
 duplex half
 speed 100
!
interface GigabitEthernet0/0.5
 encapsulation dot1Q 5

```

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```

ip address 10.162.5.4 255.255.255.248
crypto map MYCRYPTOMAP
!
interface GigabitEthernet0/0.179
encapsulation dot1Q 179
ip address 192.168.200.24 255.255.255.0
!
interface GigabitEthernet0/1
no ip address
shutdown
duplex auto
speed auto
!
interface Serial0/0/0
no ip address
shutdown
clock rate 2000000
!
router ospf 1
network 10.162.5.0 0.0.0.7 area 0
network 192.168.20.0 0.0.0.255 area 0
!
ip forward-protocol nd
!
no ip http server
no ip http secure-server
!
!
!
!
!
control-plane
!
!
!
line con 0
password medellin
login
line aux 0
line 2
no activation-character
no exec

```

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```

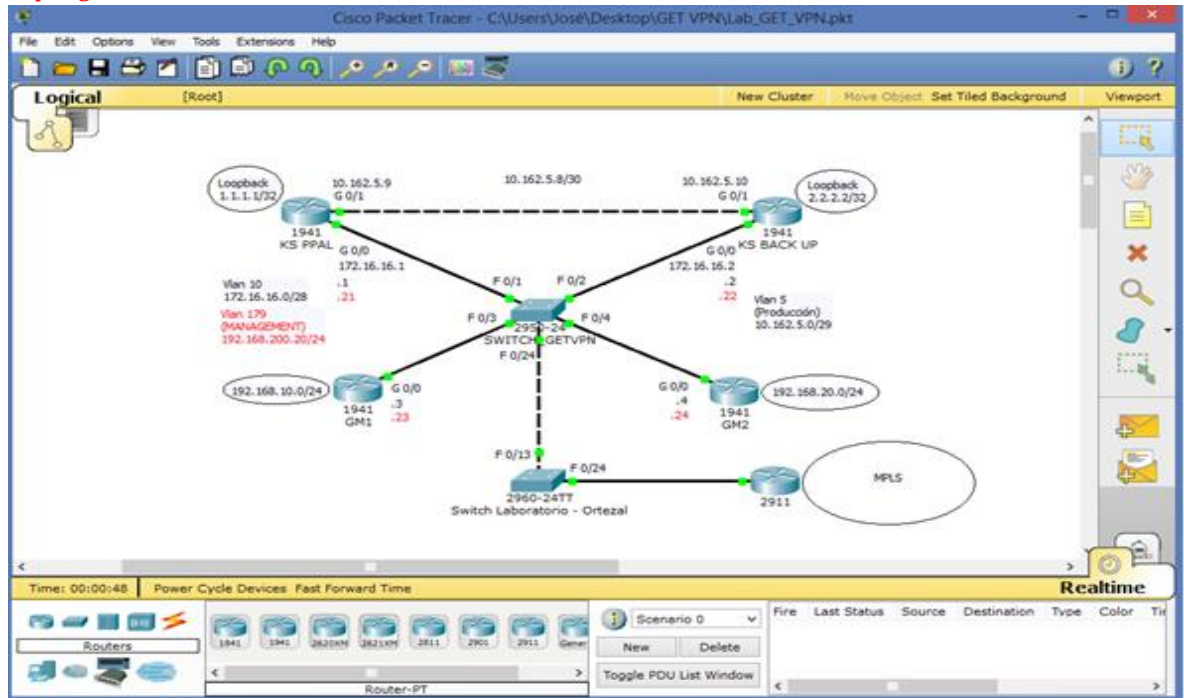
transport preferred none
transport output pad telnet rlogin lapb-ta mop udptn v120 ssh
stopbits 1
line vty 0 4
password cisco
login local
transport input all
!
scheduler allocate 20000 1000
!
end

```

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Anexos

Topología GETVPN



Equipos configurados GETVPN

