

REDES

PROYECTO 2

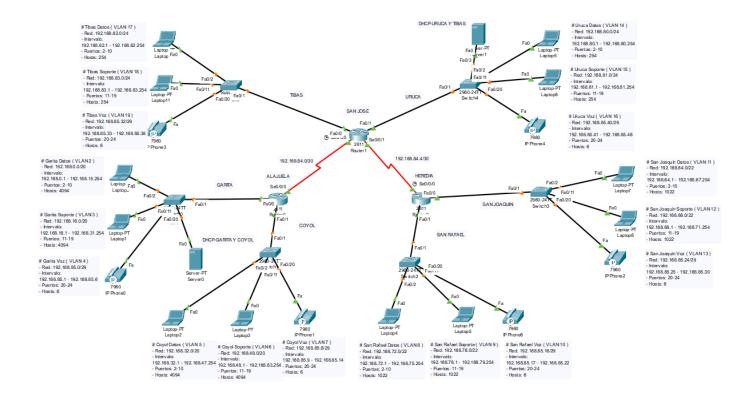
Stasey Nerdrick Carvajal - 2017124886
Carlos Rojas Fuentes - 2015113897

I Semestre del año 2022

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Diseño de la Red



Selección de IP

Se selecciono la ip 192.168.0.0/16 debido a que esta ip es utilizada para redes pequeñas normalmente debido a que es de clase C.

Proceso de Subneteo

VIALLO STA
Projecto
Red: 192.168.0.0/16
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Red Alajuela: 15800 host
Red Heredia: 3800 host
Med Heredia: 5800 host
Red Son Jose: 900 host
1/69 PU 1026: 100 MOSI
Mascara:
111111111111111111111111111111111111111
2' = 65 536 host dispenibles en la red
Tobla de conversión:
The state of the s
21, 16,384
213 8192
212 4096
2" 2048
2'0 1024
29: 512

Direccionamiento IP para la red de Alajuela:
Host. 15800
111111111111111111111111111111111111111
Are inst
1111111.1111111.11000000.00000000000000
THE WAR THE WA
THE STATE OF THE S
2": 16 384 direcciones x subject
2 : 4 Subredes.
mas cara: 522.522.195.0
rongo: 256-192-64
TITT
labla I
subject desde hasta Primero Ultimo subject Asympter
0 192168.0.0 192.168.63.20 192.168.0,1 192.168.63.704 16,384 Alajuela /1
1 192 168.64.0 192 168.127.255 192.168.64.1) 192 168,120,254 16,384 - /1
2 192.168.128,0 192.168,191,255/192.168,128, 1 192.168,191.259/16,384 - V
3 192 168 192 0 192.168, 255.285 192, 168, 192, 1 192 168, 25 54 16, 384 - V
I THE THE WATER OF THE PARTY OF
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Dirección IP para la red de heredia
Hoot 3800
Se utilizara la subred 1 de la tabla 1:
The second of th
192.168.64.0/18
111111111111111111111111111111111111111
11111111111111111111111111111111111111
Para
3 three
212 = 4096 directiones x subred
22 = 4 subredes
mascara: 255.255.246.0
200 : 520 - 540 = 18
Tabla 2
ladia
Subred desde hasta Primero Wilms bread Asyman
1.0 192.168.64.0 192.16879.255 192168.69.1 192.165,79244076 Hardia /26
1.1 192 168.80.6 192 168.95, 255 192 168.80.1 192 168.95259 4096 - 120
12 192 168 98.0 /92 168 111,255 192.168.96.1 197.168.11.20 4096 - 120
1-3 192 168 112.0 192 168.124.25 102.168.112.1 192.168.123 4016 1 - 1/20

Dirección IP para la red de San José	
Host: 900	
Se utilizara la subred dil dela table 2:	
192 168.80.0/20	
Comment of the second of the s	
26009°Ce,	
shoooooooooo	
10 para host	
10	
2'0 = 1024 direction of x Subred	
2: 4 subredes	
mosco, 0 = 255, 255, 252.0 =	
rango = 256 - 252 = 4	
The state of the s	
106/g 3:	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Subred desde hasta Prima Utimo Subred Asignadas	dill or
1.1.0 192.168, 80.0 192.168.83.25 192.168.80.1 192.168.83.84 1024 5 an José 1	/22
	/22
1.1.2 192.168.88.0192.14, 21, 251 192 168.88, 1 192 168.91.254 1 - 1	22
	122

Direcciones de enlace:
Se utilizará la subred 1.11 de la tabla 3:
192.168.84.6/22
111111111111111111111111111111111111111
8 para hast 124
11111111111111111111111111111111111111
28 = 250 direcciones x subred
2° = 4 spredes.
mas co. a = 255.255 255, 785
rango = 256-255.1
- II
Table 4
Subred desde haste Princio Utimo direcciono Angrada
1.1.1 0 192.168.84.0 192.168.84.255192.168.84.1 192.168.84.257 256 - 12
1.1.1 1 192 168 85 0 192 16x 85, 205 192 168 85 1 192 16x 85, 254 256 - 12
1.1.1.2 192.168.86.0 192.168.86.25 142.168.86.1 192.168.86.234 256 - 12
1.1.1.3 192, 168.87.0 192. 168.84 255 192.168.82.1 192.168 80. 254 256 / 12
The same of the sa
1.11 20

		111	
Se utilizara la red 192.168.8	54.0/24 de la	, tabla 4	1
minimum, mum.oc			
mini, mini, mini, mini, oc	2 para lost		1
minn, minn, minn,	111100 = 150		
Illinia illinia illinia	para		
- A	wheed	11 12 1211	
2: 4 directiones x subred			
2° = 64 subredes.	William Comp	of country.	
mascara: 255 255.255.	252		
rongs: 256-252:4		1 100 = 1	
3	a adalah	# 223	
Table 5	323 883 -	and Front	
	1 10-085	II dance	beed taryonda
subred Desde hosta	Primero		-
1.1.0.0 192.168.84.0 192.168.84.3	192.168.84.1		
1.1.10.1 192.168.84.4 192.168,84,7	192.168.89.5	192,16884.6 4	
1.1.1.02 192.168.84. 8 192.168.84.11			1
20 / response of the letter	121 4114 1914	and suppose the sale	1
at the same of	23 434 341.0	12/2/2	7-11
	10-1-	la- ve su	
1,1.1.0.63 192 167,84,252 192.168,84	255 1192.168.84.	253 197.168.84,34	9 10 1
The second secon			
		The state of the s	
		-	
		7	
	The state of the s		

Red Alaquela
Red: 192,168:0.0/18
The state of the s
Subred 1 = 4000 host - Gorda Datos
Subject 2 = 4000 host + Court & Sopoite
Subred 3 - 4000 host -+ Coyal Soporte
Subject 4= 3x00 host - Coyal Dates
Máscara:
81/:000000000000000000000000000000000000
10,384 direcciones x subred
Tabla de conversión:
The start and the start of the
2" = 4096
2" = 2048
Direccionamiento IP pora la subred 1:
and perceptioned appropriately alleged to the
Host 4000
15 bara post
111111111111111111111111111111111111111
2 para
12
2 = 4096 direcciones x subred
2 = 4 subred
mascara: 255,255.240.0
rango: 256-240=16

Table 6
Subject desde hasta Primaro VI fine subject Asignada
0.0 192,168.0.0 192,168,15,255 192,168,0,1 192,168,15,254, 4096 Subrid 1 /20
0.1 192.168.16.0 192.168.31.255 192.168.16.1 192.169.33.254 4096 Subred 2 /20
0.2 192.168.32.0 192.168.47.255 192.168.32.1192.168.47.254 4096 Jubred 3 120
0.5 192 168.48.0 192 168.63.255 192, 168, 48, 1 192 168, 63, 254 4096. Subred 4 1/20
Red Heredia
Red 192,168,64,0/20
Subred 1: 1000 host - Dates San Jaguar
Subrell 2: 1000 host - Separte SJ
Subrid 3: 1000 hout a Datos SR
Subrid 4 800 host , Seporte SR
Mascora: 4 de
05/- 0000000.0000111.1111111
4096 host
Tabla de consersión:
2'0: 1024
23. 512.

The state of the s
Directonamiento IP para la subred 1:
Host 1000 10 para host
11111111111111111111111111111111111111
Subret Anna C - 1-22 087
210 = 1024 direcciones X Subred
2° = 4 subredes
más Cara: 235. 235. 258. 0
Rango: 256 - 252 = 4
toad PSO1
Table 4 compound alder
214 19
Subved desde hasta Primero litimo subject Asignado
1.0.0 192168 G4.0 192168,67.255 192168,64.1 192168,64.254 1024 Subrid1
1.0 1 192. 168. (8.0) 192. 168. 71. 255 192. 168. 68. 1 192. 168. 71. 254 1024 Subrid 2
1.6. 2 192.168.72.0 192.168.75.255 192.168.72.1 192.168.75.254 1024 Subrad 3
1.0.3 192. 168.76. 0 192.168,79 255 192.168,76.1 192.168,79.254 1024 Subred 9
AST OCCUPACION THE HAMILIAND
And wood worth of 2 2 35
2 should Hills
Classical angular and the second

	Red Jan José:
	Ved an offe.
	Red. 192.168,80.0/22
	Red. 110.100,
	Subject 1.250 host - Dites Vive
	Sibred 2. 200 hard - Soporte Vivea
	Subject 3: 200 host -> Datos Tibas
	Subred 9: 200 host - Seporte Tibas
	Land Variable Rack and Land
	Mas coro.
	111111111111111111111111111111111111111
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1024 host
	Table Conversion
	S. 215
	58.52C
-	The state of the s
-	Direccionamiento IP para la subred 1:
1	English statement of the statement of th
	Host: 250
1	2, Shred
1	111111111111111111111111111111111111111
	8 para host
-	20= 256 direcciones x Subred
	2: 4 Subredes
	más cara 255.255.255.0
1 3	(ango: 256-255:1

Subred	des de		H St.	altimo	alvection a	Asignada
0.0.1.1	192.168.80.0	PRZ. 68, 80. 955	192 168.80.1	192 168 80.254	256	Subred 1
1101	192,168 31.0	197 less 81 755	192 168 81.1	125.18.831.50	256	Subred 2
1100	192.168.82.) 101 1Cx 83 7	58.80 1 00/ 22	1 192.168.82.20	y 256	Subred 3
1100	100 100 83	0/10-100 00	3 cc 100 1cs 85	1 192, 168, 83.7	sy 286	Subred 4
1.1.0.3	192.168.83	5.0/192.168.83.	522 1192.168.83	1 4145,168,83.2	SY COR	Jubrea

Tabla completa

Subred	Desde	Hasta	Primero	Ultimo	Direcciones x Subred	Asignada	
0.0	192.168.0.0	192.168.15.255	192.168.0.1	192.168.15.254	4096	GaritaDatos	/20
0.1	192.168.16.0	192.168.31.255	192.168.16.1	192.168.31.254	4096	GaritaSoporte	/20
0.2	192.168.32.0	192.168.47.255	192.168.32.1	192.168.47.254	4096	CoyolSoporte	/20
0.3	192.168.48.0	192.168.63.255	192.168.48.1	192.168.63.254	4096	CoyolDatos	/20
1.0.0	192.168.64.0	192.168.67.255	192.168.64.1	192.168.67.254	1024	DatosSJ	/22
1.0.1	192.168.68.0	192.168.71.255	192.168.68.1	192.168.71.254	1024	SoporteSJ	/22
1.0.2	192.168.72.0	192.168.75.255	192.168.72.1	192.168.75.254	1024	DatosSR	/22
1.0.3	192.168.76.0	192.168.79.255	192.168.76.1	192.168.79.254	1024	SoporteSR	/22
1.1.0.0	192.168.80.0	192.168.80.255	192.168.80.1	192.168.80.254	256	DatosUruca	/24
1.1.0.1	192.168.81.0	192.168.81.255	192.168.81.1	192.168.81.254	256	SoporteUruca	/24
1.1.0.2	192.168.82.0	192.168.82.255	192.168.82.1	192.168.82.254	256	DatosTibas	/24
1.1.0.3	192.168.83.0	192.168.83.255	192.168.83.1	192.168.83.254	256	SoporteTibas	/24
1.1.1.0.0	192.168.84.0	192.168.84.3	192.168.84.1	192.168.84.2	4	Enlace 1	/30
1.1.1.0.1	192.168.84.4	192.168.84.7	192.168.84.5	192.168.84.6	4	Enlace 2	/30
1.1.1.0.2	192.168.84.8	192.168.84.11	192.168.84.9	192.168.84.10	4	Servers	/30
					4	-	/30
1.1.1.0.63	192.168.84.252	192.168.84.255	192.168.84.253	192.168.84.254	4	-	/30
1.1.1.1.0	192.168.85.0	192.168.85.7	192.168.85.1	192.168.85.6	8	Voz Garita	/29
1.1.1.1.1	192.168.85.8	192.168.85.15	192.168.85.9	192.168.85.14	8	Voz Coyol	/29

1.1.1.2	192.168.85.16	192.168.85.23	192.168.85.17	192.168.85.22	8	Voz San Raf.	/29
1.1.1.3	192.168.85.24	192.168.85.31	192.168.85.25	192.168.85.30	8	Voz San Joa.	/29
1.1.1.1.4	192.168.85.32	192.168.85.39	192.168.85.33	192.168.85.38	8	Voz Tibás	/29
1.1.1.5	192.168.85.40	192.168.85.47	192.168.85.41	192.168.85.46	8	Voz Uruca	/29
					8	-	/29
					8	-	/29
1.1.1.31	192.168.85.248	192.168.85.255	192.168.85.249	192.168.85.254	8	-	/29
1.1.1.2	192.168.86.0	192.168.86.255	192.168.86.1	192.168.86.254	256	-	/24
1.1.1.3	192.168.87.0	192.168.87.255	192.168.87.1	192.168.87.254	256	-	/24
1.1.2	192.168.88.0	192.168.91.255	192.168.88.1	192.168.91.254	1024	-	/22
1.1.3	192.168.92.0	192.168.95.255	192.168.92.1	192.168.95.254	1024	-	/22
1.2	192.168.96.0	192.168.111.255	192.168.96.1	192.168.111.254	4096	-	/20
1.3	192.168.112.0	192.168.127.255	192.168.112.1	192.168.127.254	4096	-	/20
2	192.168.128.0	192.168.191.255	192.168.128.1	192.168.191.254	16,834	-	/18
3	192.168.192.0	192.168.255.255	192.168.192.1	192.168.255.254	16,834	-	/18

Show Run Router

Router Alajuela

```
Enter configuration commands, one per line. End with CNTL/Z.
ALAJUELA(config)#do sh run
Building configuration...
Current configuration: 2689 bytes
!
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname ALAJUELA
!
!
!
enable password cisco
!
no ip cef
no ipv6 cef
!
```

license udi pid CISCO2811/K9 sn FTX1017F4LK-

```
!
spanning-tree mode pvst
interface FastEthernet0/0
no ip address
duplex auto
speed auto
interface FastEthernet0/0.2
encapsulation dot1Q 2
ip address 192.168.0.1 255.255.240.0
interface FastEthernet0/0.3
encapsulation dot1Q 3
ip address 192.168.16.1 255.255.240.0
ip helper-address 192.168.0.2
interface FastEthernet0/0.4
```

```
encapsulation dot1Q 4
ip address 192.168.85.1 255.255.255.248
ip helper-address 192.168.0.2
interface FastEthernet0/0.5
no ip address
shutdown
interface FastEthernet0/1
no ip address
duplex auto
speed auto
interface FastEthernet0/1.5
encapsulation dot1Q 5
ip address 192.168.32.1 255.255.240.0
ip helper-address 192.168.0.2
ip access-group 101 in
interface FastEthernet0/1.6
encapsulation dot1Q 6
ip address 192.168.48.1 255.255.240.0
ip helper-address 192.168.0.2
ip access-group 102 in
interface FastEthernet0/1.7
encapsulation dot1Q 7
ip address 192.168.85.9 255.255.255.248
ip helper-address 192.168.0.2
interface Serial0/0/0
ip address 192.168.84.2 255.255.255.252
!
```

```
interface Serial0/0/1
no ip address
clock rate 2000000
shutdown
interface Vlan1
no ip address
shutdown
router ospf 1
log-adjacency-changes
network 192.168.0.0 0.0.15.255 area 0
 network 192.168.84.0 0.0.0.3 area 0
 network 192.168.16.0 0.0.15.255 area 0
network 192.168.32.0 0.0.15.255 area 0
network 192.168.48.0 0.0.15.255 area 0
!
ip classless
ip flow-export version 9
!
!
access-list 101 deny tcp 192.168.32.0 0.0.15.255 192.168.80.0 0.0.0.255 eq ftp
access-list 101 permit ip any any
access-list 102 deny tcp 192.168.48.0 0.0.15.255 192.168.80.0 0.0.0.255 eq ftp
access-list 102 permit ip any any
no cdp run
!
```

```
!
dial-peer voice 1 voip
destination-pattern 50.
session target ipv4:192.168.84.1
dial-peer voice 2 voip
destination-pattern 60.
session target ipv4:192.168.84.1
dial-peer voice 3 voip
destination-pattern 30.
session target ipv4:192.168.84.6
!
dial-peer voice 4 voip
destination-pattern 40.
session target ipv4:192.168.84.6
telephony-service
max-ephones 10
max-dn 10
ip source-address 192.168.85.9 port 2000
ephone-dn 1
number 100
ephone-dn 2
number 200
ephone 1
device-security-mode none
mac-address 00D0.BC46.777A
type 7960
button 1:1
```

```
!
ephone 2
device-security-mode none
mac-address 0002.1621.4964
type 7960
button 1:2
!
line con 0
!
line aux 0
!
line vty 0 4
login
!
!
End
```

Router San Jose

```
Current configuration: 2734 bytes
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname SANJOSE
!
!
enable password cisco
!
no ip cef
no ipv6 cef
!
license udi pid CISCO2811/K9 sn FTX1017K0DA-
!
```

```
!
spanning-tree mode pvst
interface FastEthernet0/0
no ip address
duplex auto
speed auto
interface FastEthernet0/0.17
encapsulation dot1Q 17
ip address 192.168.82.1 255.255.255.0
ip helper-address 192.168.80.2
ip access-group 101 in
interface FastEthernet0/0.18
encapsulation dot1Q 18
ip address 192.168.83.1 255.255.255.0
ip helper-address 192.168.80.2
ip access-group 102 in
interface FastEthernet0/0.19
encapsulation dot1Q 19
ip address 192.168.85.33 255.255.255.248
ip helper-address 192.168.80.2
```

```
!
interface FastEthernet0/1
no ip address
duplex auto
speed auto
interface FastEthernet0/1.14
encapsulation dot1Q 14
ip address 192.168.80.1 255.255.255.0
ip helper-address 192.168.80.2
!
interface FastEthernet0/1.15
encapsulation dot1Q 15
ip address 192.168.81.1 255.255.255.0
ip helper-address 192.168.80.2
interface FastEthernet0/1.16
encapsulation dot1Q 16
ip address 192.168.85.41 255.255.255.248
ip helper-address 192.168.80.2
interface Serial0/0/0
ip address 192.168.84.1 255.255.255.252
clock rate 2000000
interface Serial0/0/1
ip address 192.168.84.5 255.255.255.252
interface Vlan1
no ip address
shutdown
router ospf 1
```

```
log-adjacency-changes
network 192.168.84.0 0.0.0.3 area 0
network 192.168.82.0 0.0.0.255 area 0
network 192.168.83.0 0.0.0.255 area 0
network 192.168.80.0 0.0.0.255 area 0
network 192.168.81.0 0.0.0.255 area 0
network 192.168.84.4 0.0.0.3 area 0
!
ip classless
ip flow-export version 9
!
!
access-list 101 deny tcp 192.168.82.0 0.0.0.255 192.168.0.0 0.0.15.255 eq www
access-list 101 permit ip any any
access-list 102 deny tcp 192.168.83.0 0.0.0.255 192.168.0.0 0.0.15.255 eq www
access-list 102 permit ip any any
!
no cdp run
dial-peer voice 1 voip
destination-pattern 30.
session target ipv4:192.168.84.6
dial-peer voice 2 voip
destination-pattern 40.
session target ipv4:192.168.84.6
!
```

```
dial-peer voice 3 voip
destination-pattern 10.
session target ipv4:192.168.84.2
dial-peer voice 4 voip
destination-pattern 20.
session target ipv4:192.168.84.2
telephony-service
max-ephones 10
max-dn 10
ip source-address 192.168.85.33 port 2000
!
ephone-dn 1
number 500
ephone-dn 2
number 600
ephone 1
device-security-mode none
mac-address 0040.0BDA.0A5A
type 7960
button 1:1
ephone 2
device-security-mode none
mac-address 0060.2F5B.82A6
type 7960
button 1:2
line con 0
!
```

```
line aux 0
!
line vty 0 4
login
!
!
```

Router Heredia

```
Current configuration: 3205 bytes
!
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname HEREDIA
!
!
!
enable password cisco
!
!
ip dhcp excluded-address 192.168.64.1
ip dhcp excluded-address 192.168.68.1
ip dhcp excluded-address 192.168.72.1
ip dhcp excluded-address 192.168.76.1
ip dhcp excluded-address 192.168.85.25
ip dhcp excluded-address 192.168.85.17
ip dhcp pool SJDATOS
```

```
network 192.168.64.0 255.255.252.0
default-router 192.168.64.1
option 150 ip 192.168.64.1
ip dhcp pool SJSOPORTE
network 192.168.68.0 255.255.252.0
default-router 192.168.68.1
option 150 ip 192.168.68.1
ip dhcp pool SFDATOS
network 192.168.72.0 255.255.252.0
default-router 192.168.72.1
option 150 ip 192.168.72.1
ip dhcp pool SFSOPORTE
network 192.168.76.0 255.255.252.0
default-router 192.168.76.1
option 150 ip 192.168.76.1
domain-name wr
ip dhcp pool SJVOZ
network 192.168.85.24 255.255.255.248
default-router 192.168.85.25
option 150 ip 192.168.85.25
domain-name wr
ip dhcp pool SFVOZ
network 192.168.85.16 255.255.255.248
default-router 192.168.85.17
option 150 ip 192.168.85.17
domain-name wr
no ip cef
no ipv6 cef
```

```
!
!
license udi pid CISCO2811/K9 sn FTX1017A6B0-
!
spanning-tree mode pvst
interface FastEthernet0/0
no ip address
duplex auto
speed auto
interface FastEthernet0/0.11
encapsulation dot1Q 11
ip address 192.168.64.1 255.255.252.0
interface FastEthernet0/0.12
encapsulation dot1Q 12
ip address 192.168.68.1 255.255.252.0
```

```
!
interface FastEthernet0/0.13
encapsulation dot1Q 13
ip address 192.168.85.25 255.255.255.248
interface FastEthernet0/1
no ip address
duplex auto
speed auto
interface FastEthernet0/1.8
encapsulation dot1Q8
ip address 192.168.72.1 255.255.252.0
interface FastEthernet0/1.9
encapsulation dot1Q9
ip address 192.168.76.1 255.255.252.0
interface FastEthernet0/1.10
encapsulation dot1Q 10
ip address 192.168.85.17 255.255.255.248
interface Serial0/0/0
ip address 192.168.84.6 255.255.255.252
clock rate 2000000
interface Serial0/0/1
no ip address
clock rate 2000000
shutdown
interface Vlan1
no ip address
```

```
shutdown
router ospf 1
log-adjacency-changes
network 192.168.84.4 0.0.0.3 area 0
network 192.168.68.0 0.0.3.255 area 0
network 192.168.72.0 0.0.3.255 area 0
network 192.168.64.0 0.0.3.255 area 0
network 192.168.76.0 0.0.3.255 area 0
ip classless
!
ip flow-export version 9
!
no cdp run
dial-peer voice 1 voip
destination-pattern 60.
session target ipv4:192.168.84.5
dial-peer voice 2 voip
destination-pattern 50.
session target ipv4:192.168.84.5
dial-peer voice 3 voip
destination-pattern 10.
```

```
session target ipv4:192.168.84.2
dial-peer voice 4 voip
destination-pattern 20.
session target ipv4:192.168.84.2
telephony-service
max-ephones 10
max-dn 10
ip source-address 192.168.85.17 port 2000
ephone-dn 1
number 400
ephone-dn 2
number 300
ephone 1
device-security-mode none
mac-address 00D0.FF06.7835
type 7960
button 1:1
ephone 2
device-security-mode none
mac-address 0007.EC93.A019
type 7960
button 1:2
line con 0
line aux 0
!
```

```
line vty 0 4
login
!
!
```

Switch Garita

```
Current configuration: 2457 bytes
!
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname GARITA
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
interface FastEthernet0/1
switchport trunk allowed vlan 2-4
switchport mode trunk
interface FastEthernet0/2
switchport access vlan 2
switchport mode access
```

```
!
interface FastEthernet0/3
switchport access vlan 2
switchport mode access
interface FastEthernet0/4
switchport access vlan 2
switchport mode access
!
interface FastEthernet0/5
switchport access vlan 2
switchport mode access
!
interface FastEthernet0/6
switchport access vlan 2
switchport mode access
interface FastEthernet0/7
switchport access vlan 2
switchport mode access
interface FastEthernet0/8
switchport access vlan 2
switchport mode access
interface FastEthernet0/9
switchport access vlan 2
switchport mode access
interface FastEthernet0/10
switchport access vlan 2
switchport mode access
!
```

```
interface FastEthernet0/11
switchport access vlan 3
switchport mode access
interface FastEthernet0/12
switchport access vlan 3
switchport mode access
interface FastEthernet0/13
switchport access vlan 3
switchport mode access
interface FastEthernet0/14
switchport access vlan 3
switchport mode access
interface FastEthernet0/15
switchport access vlan 3
switchport mode access
interface FastEthernet0/16
switchport access vlan 3
switchport mode access
interface FastEthernet0/17
switchport access vlan 3
switchport mode access
interface FastEthernet0/18
switchport access vlan 3
switchport mode access
interface FastEthernet0/19
```

```
switchport access vlan 3
switchport mode access
interface FastEthernet0/20
switchport mode access
switchport voice vlan 4
interface FastEthernet0/21
switchport mode access
switchport voice vlan 4
!
interface FastEthernet0/22
switchport mode access
switchport voice vlan 4
interface FastEthernet0/23
switchport mode access
switchport voice vlan 4
interface FastEthernet0/24
switchport mode access
switchport voice vlan 4
interface GigabitEthernet0/1
interface GigabitEthernet0/2
interface Vlan1
no ip address
shutdown
interface Vlan2
description GARITADATOS
```

```
no ip address
!
interface Vlan3
description GARITASOPORTE
no ip address
interface Vlan4
description GARITAVOZ
no ip address
!
!
!
line con 0
!
line vty 04
login
line vty 5 15
login
!
!
!
End
```

Switch Coyol

```
Current configuration: 2453 bytes
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname COYOL
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
switchport trunk allowed vlan 5-7
switchport mode trunk
interface FastEthernet0/2
switchport access vlan 5
switchport mode access
interface FastEthernet0/3
switchport access vlan 5
switchport mode access
interface FastEthernet0/4
switchport access vlan 5
```

```
switchport mode access
interface FastEthernet0/5
switchport access vlan 5
switchport mode access
interface FastEthernet0/6
switchport access vlan 5
switchport mode access
interface FastEthernet0/7
switchport access vlan 5
switchport mode access
!
interface FastEthernet0/8
switchport access vlan 5
switchport mode access
interface FastEthernet0/9
switchport access vlan 5
switchport mode access
interface FastEthernet0/10
switchport access vlan 5
switchport mode access
interface FastEthernet0/11
switchport access vlan 6
switchport mode access
interface FastEthernet0/12
switchport access vlan 6
switchport mode access
```

```
!
interface FastEthernet0/13
switchport access vlan 6
switchport mode access
interface FastEthernet0/14
switchport access vlan 6
switchport mode access
!
interface FastEthernet0/15
switchport access vlan 6
switchport mode access
!
interface FastEthernet0/16
switchport access vlan 6
switchport mode access
interface FastEthernet0/17
switchport access vlan 6
switchport mode access
interface FastEthernet0/18
switchport access vlan 6
switchport mode access
interface FastEthernet0/19
switchport access vlan 6
switchport mode access
interface FastEthernet0/20
switchport mode access
switchport voice vlan 7
!
```

```
interface FastEthernet0/21
switchport mode access
switchport voice vlan 7
interface FastEthernet0/22
switchport mode access
switchport voice vlan 7
interface FastEthernet0/23
switchport mode access
switchport voice vlan 7
interface FastEthernet0/24
switchport mode access
switchport voice vlan 7
interface GigabitEthernet0/1
interface GigabitEthernet0/2
interface Vlan1
no ip address
shutdown
interface Vlan5
description COYOLDATOS
no ip address
interface Vlan6
description COYOLSOPORTE
no ip address
interface Vlan7
```

```
description COYOLVOZ
no ip address
line con 0
line vty 04
login
line vty 5 15
login
End
Swich San Rafael
Current configuration: 2455 bytes
!
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
hostname SANRAFAEL
!
!
!
```

```
!
spanning-tree mode pvst
spanning-tree extend system-id
interface FastEthernet0/1
switchport trunk allowed vlan 8-10
switchport mode trunk
!
interface FastEthernet0/2
switchport access vlan 8
switchport mode access
!
interface FastEthernet0/3
switchport access vlan 8
switchport mode access
interface FastEthernet0/4
switchport access vlan 8
switchport mode access
interface FastEthernet0/5
switchport access vlan 8
switchport mode access
interface FastEthernet0/6
switchport access vlan 8
switchport mode access
interface FastEthernet0/7
switchport access vlan 8
switchport mode access
interface FastEthernet0/8
```

```
switchport access vlan 8
switchport mode access
interface FastEthernet0/9
switchport access vlan 8
switchport mode access
interface FastEthernet0/10
switchport access vlan 8
switchport mode access
!
interface FastEthernet0/11
switchport access vlan 9
switchport mode access
interface FastEthernet0/12
switchport access vlan 9
switchport mode access
interface FastEthernet0/13
switchport access vlan 9
switchport mode access
interface FastEthernet0/14
switchport access vlan 9
switchport mode access
interface FastEthernet0/15
switchport access vlan 9
switchport mode access
!
interface FastEthernet0/16
switchport access vlan 9
```

```
switchport mode access
interface FastEthernet0/17
switchport access vlan 9
switchport mode access
interface FastEthernet0/18
switchport access vlan 9
switchport mode access
interface FastEthernet0/19
switchport access vlan 9
switchport mode access
!
interface FastEthernet0/20
switchport mode access
switchport voice vlan 10
interface FastEthernet0/21
switchport mode access
switchport voice vlan 10
interface FastEthernet0/22
switchport mode access
switchport voice vlan 10
interface FastEthernet0/23
switchport mode access
switchport voice vlan 10
interface FastEthernet0/24
switchport mode access
switchport voice vlan 10
```

```
!
interface GigabitEthernet0/1
interface GigabitEthernet0/2
interface Vlan1
no ip address
shutdown
interface Vlan8
description SFDATOS
no ip address
!
interface Vlan9
description SRSOPORTE
no ip address
interface Vlan10
description SRVOZ
no ip address
!
line con 0
line vty 04
login
line vty 5 15
login
!
!
!
```

```
!
End
```

Switch San Joaquin

```
Current configuration: 2477 bytes
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
hostname SANJOAQUIN
!
spanning-tree mode pvst
spanning-tree extend system-id
interface FastEthernet0/1
switchport trunk allowed vlan 11-13
switchport mode trunk
interface FastEthernet0/2
switchport access vlan 11
switchport mode access
interface FastEthernet0/3
switchport access vlan 11
switchport mode access
```

```
!
interface FastEthernet0/4
switchport access vlan 11
switchport mode access
interface FastEthernet0/5
switchport access vlan 11
switchport mode access
!
interface FastEthernet0/6
switchport access vlan 11
switchport mode access
!
interface FastEthernet0/7
switchport access vlan 11
switchport mode access
interface FastEthernet0/8
switchport access vlan 11
switchport mode access
interface FastEthernet0/9
switchport access vlan 11
switchport mode access
interface FastEthernet0/10
switchport access vlan 11
switchport mode access
interface FastEthernet0/11
switchport access vlan 12
switchport mode access
!
```

```
interface FastEthernet0/12
switchport access vlan 12
switchport mode access
interface FastEthernet0/13
switchport access vlan 12
switchport mode access
interface FastEthernet0/14
switchport access vlan 12
switchport mode access
interface FastEthernet0/15
switchport access vlan 12
switchport mode access
interface FastEthernet0/16
switchport access vlan 12
switchport mode access
interface FastEthernet0/17
switchport access vlan 12
switchport mode access
interface FastEthernet0/18
switchport access vlan 12
switchport mode access
interface FastEthernet0/19
switchport access vlan 12
switchport mode access
interface FastEthernet0/20
```

```
switchport mode access
switchport voice vlan 13
interface FastEthernet0/21
switchport mode access
switchport voice vlan 13
interface FastEthernet0/22
switchport mode access
switchport voice vlan 13
!
interface FastEthernet0/23
switchport mode access
switchport voice vlan 13
interface FastEthernet0/24
switchport mode access
switchport voice vlan 13
interface GigabitEthernet0/1
interface GigabitEthernet0/2
interface Vlan1
no ip address
shutdown
interface Vlan11
description SJDATOS
no ip address
interface Vlan12
description SJSOPORTE
```

no ip address
!
interface Vlan13
description SJVOZ
no ip address
!
!
!
!
line con 0
!
line vty 0 4
login
line vty 5 15
login
!
!
!
!
End

Switch Uruca

```
Current configuration: 2481 bytes
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname URUCA
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
switchport trunk allowed vlan 14-16
switchport mode trunk
interface FastEthernet0/2
switchport access vlan 14
switchport mode access
interface FastEthernet0/3
switchport access vlan 14
switchport mode access
interface FastEthernet0/4
switchport access vlan 14
```

```
switchport mode access
!
interface FastEthernet0/5
switchport access vlan 14
switchport mode access
interface FastEthernet0/6
switchport access vlan 14
switchport mode access
interface FastEthernet0/7
switchport access vlan 14
switchport mode access
!
interface FastEthernet0/8
switchport access vlan 14
switchport mode access
interface FastEthernet0/9
switchport access vlan 14
switchport mode access
interface FastEthernet0/10
switchport access vlan 14
switchport mode access
interface FastEthernet0/11
switchport access vlan 15
switchport mode access
interface FastEthernet0/12
switchport access vlan 15
switchport mode access
```

```
!
interface FastEthernet0/13
switchport access vlan 15
switchport mode access
interface FastEthernet0/14
switchport access vlan 15
switchport mode access
!
interface FastEthernet0/15
switchport access vlan 15
switchport mode access
!
interface FastEthernet0/16
switchport access vlan 15
switchport mode access
interface FastEthernet0/17
switchport access vlan 15
switchport mode access
interface FastEthernet0/18
switchport access vlan 15
switchport mode access
interface FastEthernet0/19
switchport access vlan 15
switchport mode access
interface FastEthernet0/20
switchport mode access
switchport voice vlan 16
!
```

```
interface FastEthernet0/21
switchport mode access
switchport voice vlan 16
interface FastEthernet0/22
switchport mode access
switchport voice vlan 16
interface FastEthernet0/23
switchport mode access
switchport voice vlan 16
interface FastEthernet0/24
switchport mode access
switchport voice vlan 16
interface GigabitEthernet0/1
!
interface GigabitEthernet0/2
interface Vlan1
no ip address
shutdown
interface Vlan14
description URUCADATOS
no ip address
interface Vlan15
description URUCASOPORTE
no ip address
interface Vlan16
```


Switch Tibas

```
Current configuration: 2481 bytes
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname TIBAS
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
switchport trunk allowed vlan 17-19
switchport mode trunk
interface FastEthernet0/2
switchport access vlan 17
switchport mode access
interface FastEthernet0/3
switchport access vlan 17
switchport mode access
interface FastEthernet0/4
switchport access vlan 17
```

```
switchport mode access
interface FastEthernet0/5
switchport access vlan 17
switchport mode access
interface FastEthernet0/6
switchport access vlan 17
switchport mode access
interface FastEthernet0/7
switchport access vlan 17
switchport mode access
!
interface FastEthernet0/8
switchport access vlan 17
switchport mode access
interface FastEthernet0/9
switchport access vlan 17
switchport mode access
interface FastEthernet0/10
switchport access vlan 17
switchport mode access
interface FastEthernet0/11
switchport access vlan 18
switchport mode access
interface FastEthernet0/12
switchport access vlan 18
switchport mode access
```

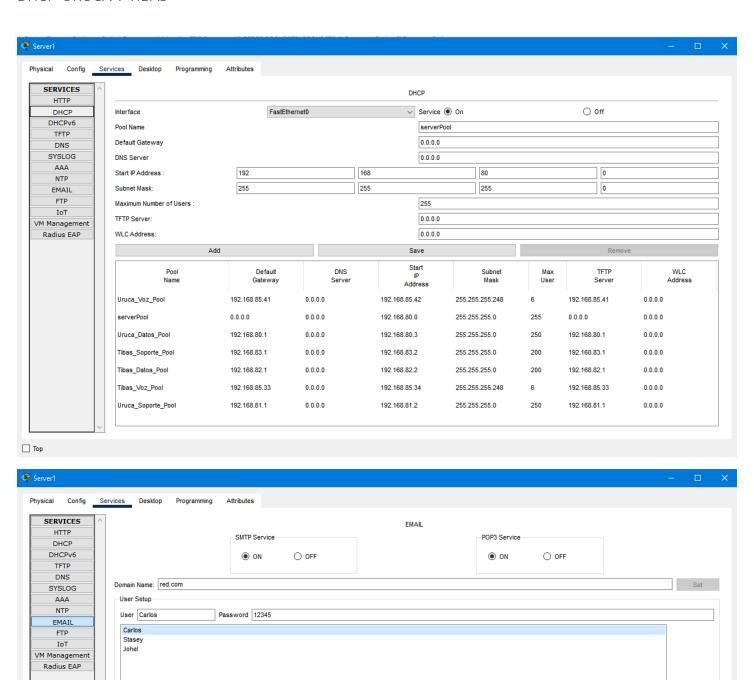
```
!
interface FastEthernet0/13
switchport access vlan 18
switchport mode access
interface FastEthernet0/14
switchport access vlan 18
switchport mode access
!
interface FastEthernet0/15
switchport access vlan 18
switchport mode access
!
interface FastEthernet0/16
switchport access vlan 18
switchport mode access
interface FastEthernet0/17
switchport access vlan 18
switchport mode access
interface FastEthernet0/18
switchport access vlan 18
switchport mode access
interface FastEthernet0/19
switchport access vlan 18
switchport mode access
interface FastEthernet0/20
switchport mode access
switchport voice vlan 19
!
```

```
interface FastEthernet0/21
switchport mode access
switchport voice vlan 19
interface FastEthernet0/22
switchport mode access
switchport voice vlan 19
interface FastEthernet0/23
switchport mode access
switchport voice vlan 19
!
interface FastEthernet0/24
switchport mode access
switchport voice vlan 19
interface GigabitEthernet0/1
!
interface GigabitEthernet0/2
interface Vlan1
no ip address
shutdown
interface Vlan17
description TIBASDATOS
no ip address
interface Vlan18
description TIBASSOPORTE
no ip address
interface Vlan19
```

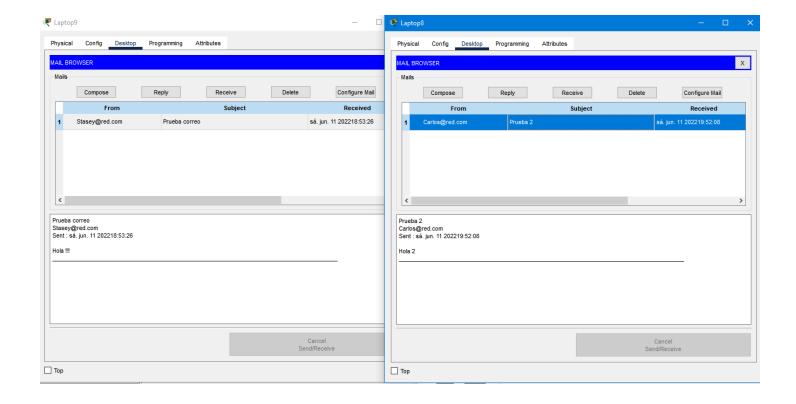
description TIBASVOZ no ip address ! ! ! ! line con 0 ! line vty 0 4 login line vty 5 15 login ! ! !

DHCP-URUCA Y TIBAS

□ Тор



Change Password



DHCP-GARITA Y COYOL

