

**UNIVERSIDAD MAYOR DE SAN ANDRÉS**  
**FACULTAD DE CIENCIAS PURAS Y NATURALES**  
**CARRERA DE INFORMÁTICA**



UNIVERSITARIO:

Laura Mamani Juan Guillermo

DOCENTE:

Lic. Ramiro Gallardo

MATERIA:

LAB-273 Laboratorio de telematica

PARALELO:

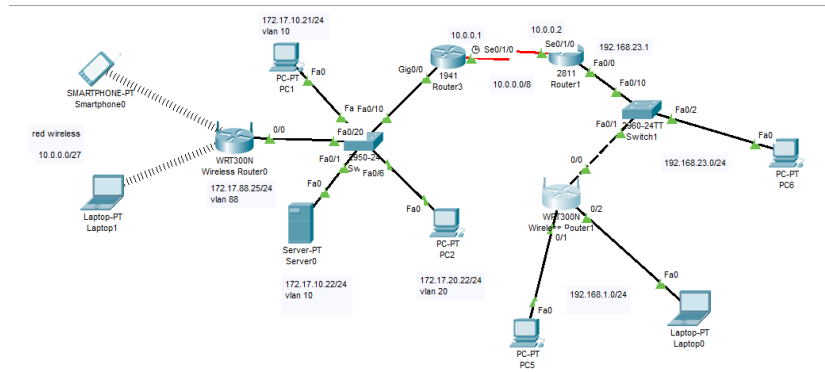
A

GESTIÓN:

I/2020

LA PAZ - BOLIVIA

## Replica topología



## REQUERIMIENTOS

### - EXPLICAR LAS MODIFICACIONES QUE SE HIZO EN LOS ROUTERS PARA ENRUTAMIENTO CON OSPF

Para el Router3 la que teníamos ya anteriormente se observa que se conecta directamente con las redes 10.0.0.0 y 172.17.0.0 con las subredes 172.17.10.0, 172.17.20.0 y 172.17.88.0 y se conecta por ospf con la dirección de red 192.168.23.0 via el enlace de la interfaz Se2/0 del router1 con dirección 10.0.0.2

```
Router3

Physical Config CLI Attributes

IOS Command Line Interface

Router#show ip route

Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP

D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS
inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route

Gateway of last resort is not set

10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C 10.0.0.0/8 is directly connected, Serial0/1/0
L 10.0.0.1/32 is directly connected, Serial0/1/0
172.17.0.0/16 is variably subnetted, 6 subnets, 2 masks
C 172.17.10.0/24 is directly connected, GigabitEthernet0/0.10
L 172.17.10.1/32 is directly connected, GigabitEthernet0/0.10
C 172.17.20.0/24 is directly connected, GigabitEthernet0/0.20
L 172.17.20.1/32 is directly connected, GigabitEthernet0/0.20
C 172.17.88.0/24 is directly connected, GigabitEthernet0/0.88
L 172.17.88.1/32 is directly connected, GigabitEthernet0/0.88
O 192.168.23.0/24 [110/65] via 10.0.0.2, 00:00:10, Serial0/1/0
```

Para el Router1 que se agrego recientemente se observa que se conecta directamente con las redes 10.0.0.0 y 192.168.23.0 y se conecta por ospf a la red 172.17.0.0 con subredes 172.17.10.0, 172.17.20.0 y 172.17.88.0 via el enlace de la intefaz Se2/0 del router3 con dirección 10.0.0.1

```
Router1

Physical Config CLI Attributes

IOS Command Line Interface

Router>ena
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router ospf 1
Router(config-router)#network 10.0.0.0 0.255.255.255 area 0
Router(config-router)#network 192.168.23.0 0.0.0.255 area 0
Router(config-router)#
Router(config-router)#
Router(config-router)#

Router#show ip route



Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP

D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS
inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route





Gateway of last resort is not set

C 10.0.0.0/8 is directly connected, Serial0/1/0
O 172.17.0.0/24 is subnetted, 3 subnets
O 172.17.10.0 [110/65] via 10.0.0.1, 00:00:50, Serial0/1/0
O 172.17.20.0 [110/65] via 10.0.0.1, 00:00:50, Serial0/1/0
O 172.17.88.0 [110/65] via 10.0.0.1, 00:00:50, Serial0/1/0
C 192.168.23.0/24 is directly connected, FastEthernet0/0
```



- CONECTIVIDAD ENTRE LA PC5 Y PC6

PDU List Window										
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC5	PC6	ICMP		0.000	N	0	(edit)	





- CONECTIVIDAD ENTRE LA LAPTOP Y PC6

PDU List Window										
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC5	PC6	ICMP		0.000	N	0	(edit)	
	Successful	Laptop0	PC6	ICMP		0.000	N	1	(edit)	

- CONECTIVIDAD ENTRE LA PC6 Y PC1

PDU List Window										
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC6	PC1	ICMP		0.000	N	0	(edit)	

- CONECTIVIDAD ENTRE PC1 Y PC6

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit
	Successful	PC6	PC1	ICMP		0.000	N	0	(edit)
	Successful	PC1	PC6	ICMP		0.000	N	1	(edit)

- TODOS LOS HOSTS PUEDAN VER EL HTML DEL SERVIDOR YOUTUBE.COM

Server0

PhysicalConfigServicesDesktopProgrammingAttributes

SERVICES

HTTPDHCPDHCPv6TFTP**DNS**SYSSLOGAAANTPEMAILFTPIoTVM ManagementRadius EAP

DNS

DNS Service

☒ On

☐ Off

Resource Records

Name

youtube.com

Type

A Record

Address

172.17.10.22

Add

Save

Remove

No.	Name	Type	Detail
0	youtube.com	A Record	172.17.10.22

- AL SERVIDOR YOUTUBE.COM MODIFICAR EL HTML Y PONER NOMBRE COMPLETO Y PARALELO

Vista del PC1

PC1

PhysicalConfigDesktopProgrammingAttributes

Web Browser

<>

URL

http://youtube.com

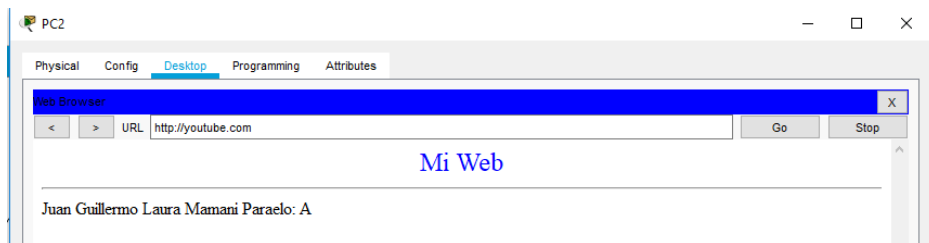
Go

Stop

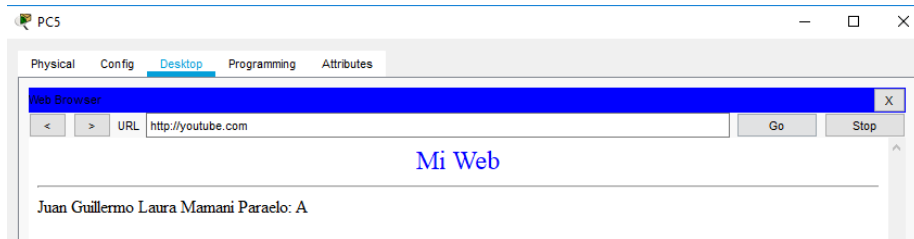
Mi Web

Juan Guillermo Laura Mamani Paraelo: A

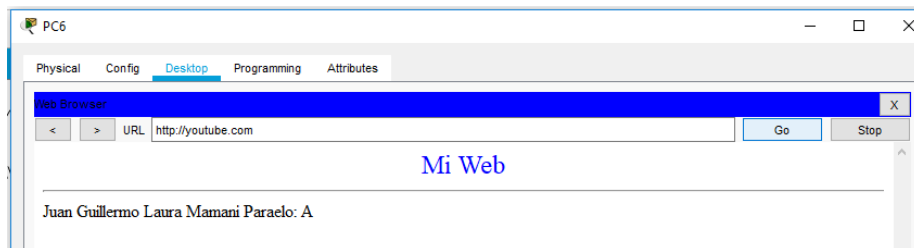
Vista del PC2



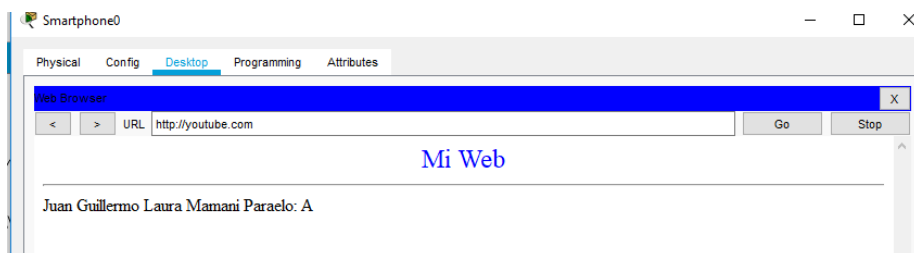
## Vista del PC5



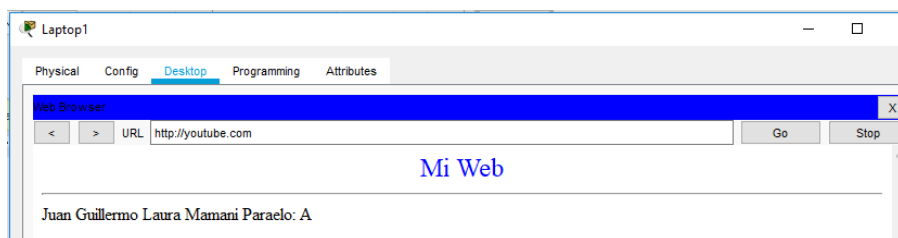
## Vista del PC6



## Smartphone0



## Laptop1



## Laptop0

