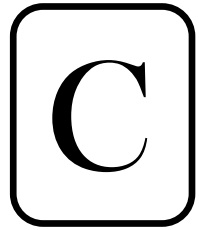


**NOMBRE:** CONDORI LANZA SILVIA EUGENIA    **C.I.:** 6164141 LP

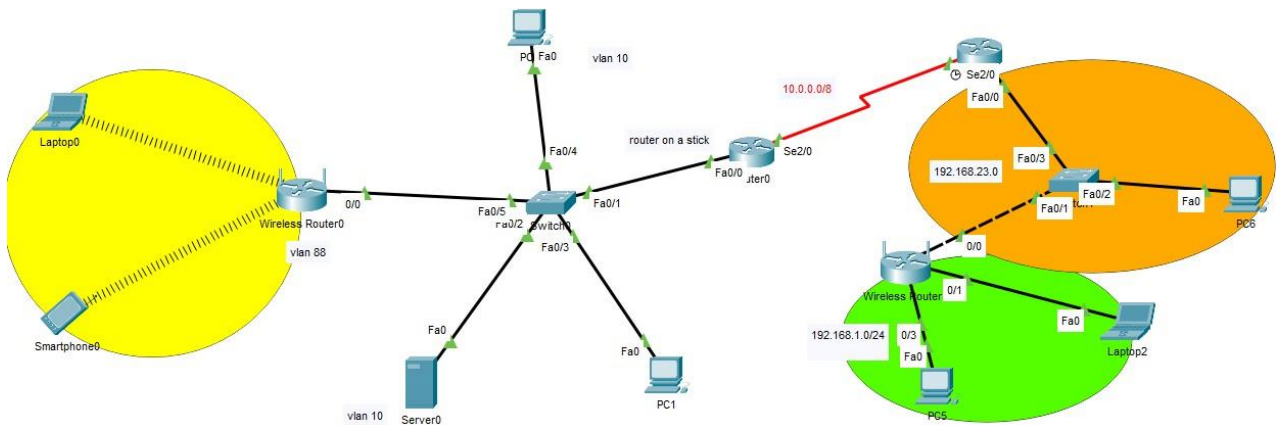
**LICENCIADO:** RAMIRO GALLARDO

**PARALELO:** A

**FECHA:** 19 DE JULIO DE 2020



Para cumplir los siguientes requerimientos



## REQUERIMIENTOS

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

Para el enrutamiento, los routers deben estar en una misma área (área 0) y las redes que se enrutarán deben estar en otra área (1 y 2).

Ingresamos a CLI

Ejm:

### ROUTER 0

```
router(config)# router ospf 273
router(config-router)# network 10.0.0.0 0.255.255.255 area 0
router(config-router)# network 172.17.0.0 0.0.0.255 area 1
router(config-router)# network 172.17.10.0 0.0.0.255 area 1
router(config-router)# network 172.17.20.0 0.0.0.255 area 1
router(config-router)# network 172.17.88.0 0.0.0.255 area 1
router(config-router)# exit
```

### ROUTER 1

```
router(config)# router ospf 273
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 2
router(config-router)# exit
```

```

Router0
Physical Config CLI Attributes
IOS Command Line Interface
Router(config)#
Router(config)#router ospf 273
Router(config-router)#net
Router(config-router)#network 10.0.0.0 0.255.255.255 area 0
Router(config-router)#
03:31:31: %OSPF-5-ADJCHG: Process 273, Nbr 192.168.23.1 on Serial2/0
from FULL to DOWN, Neighbor Down: Interface down or detached
03:31:31: %OSPF-6-AREAchg: 10.0.0.0/0 changed from area 1 to area 0
Router(config-router)#network 172.17.0.0 0.255.255.255 area 1
Router(config-router)#network 172.17.0.0 0.0.0.255 area 1
Router(config-router)#network 172.17.10.0 0.0.0.255 area 1
Router(config-router)#network 172.17.20.0 0.0.0.255 area 1
Router(config-router)#network 172.17.88.0 0.0.0.255 area 1
Router(config-router)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#show ip r
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, Serial2/0
172.17.0.0/24 is subnetted, 3 subnets
O IA 172.17.10.0 [110/65] via 10.0.0.2, 00:01:20, Serial2/0
O IA 172.17.20.0 [110/65] via 10.0.0.2, 00:01:20, Serial2/0
O IA 172.17.88.0 [110/65] via 10.0.0.2, 00:01:20, Serial2/0
C 192.168.23.0/24 is directly connected, FastEthernet0/0
Router#
Ctrl+F6 to exit CLI focus
Copy Paste

```

```

Router1
Physical Config CLI Attributes
IOS Command Line Interface
from backbone area must be virtual-link but not found from 10.0.0.1,
Serial2/0
.0.0.0.255.255.255
03:48:01: %OSPF-4-ERRRCV: Received invalid packet: mismatch area ID,
from backbone area must be virtual-link but not found from 10.0.0.1,
Serial2/0
area 0
Router(config-router)#
03:48:07: %OSPF-6-AREAchg: 10.0.0.0/0 changed from area 1 to area 0
03:48:11: %OSPF-5-ADJCHG: Process 273, Nbr 172.17.88.1 on Serial2/0
from LOADING to FULL, Loading Done
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 2
Router(config-router)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#show ip r
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, Serial2/0
172.17.0.0/24 is subnetted, 3 subnets
C 172.17.10.0 is directly connected, FastEthernet0/0.10
C 172.17.20.0 is directly connected, FastEthernet0/0.20
C 172.17.88.0 is directly connected, FastEthernet0/0.88
Router#
03:48:11: %OSPF-5-ADJCHG: Process 273, Nbr 192.168.23.1 on Serial2/0
from LOADING to FULL, Loading Done
Ctrl+F6 to exit CLI focus
Copy Paste

```

Una vez configurado observamos las interfaces configuradas mediante el comando **show ip route**

```

Router1
Physical Config CLI Attributes
IOS Command Line Interface
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#show ip r
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, Serial2/0
172.17.0.0/24 is subnetted, 3 subnets
O IA 172.17.10.0 [110/65] via 10.0.0.2, 00:01:20, Serial2/0
O IA 172.17.20.0 [110/65] via 10.0.0.2, 00:01:20, Serial2/0
O IA 172.17.88.0 [110/65] via 10.0.0.2, 00:01:20, Serial2/0
C 192.168.23.0/24 is directly connected, FastEthernet0/0
Router#
Ctrl+F6 to exit CLI focus
Copy Paste

```

```

Router0
Physical Config CLI Attributes
IOS Command Line Interface
Router#show ip r
Router#show ip route
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, Serial2/0
172.17.0.0/24 is subnetted, 3 subnets
C 172.17.10.0 is directly connected, FastEthernet0/0.10
C 172.17.20.0 is directly connected, FastEthernet0/0.20
C 172.17.88.0 is directly connected, FastEthernet0/0.88
Router#
03:48:11: %OSPF-5-ADJCHG: Process 273, Nbr 192.168.23.1 on Serial2/0
from LOADING to FULL, Loading Done
Ctrl+F6 to exit CLI focus
Copy Paste

```

- CONECTIVIDAD ENTRE LA PC5 Y PC6

Existe conectividad entre las PCs

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	E
	Successful	Wirel...	PC6	ICMP		0.000	N	0	
	Successful	PC5	PC6	ICMP		0.000	N	1	

- CONECTIVIDAD ENTRE LA LAPTOP Y PC6

Existe conectividad entre la laptop y pc6

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	E
	Successful	Wirel...	PC6	ICMP		0.000	N	0	
	Successful	PC5	PC6	ICMP		0.000	N	1	
	Successful	Laptop2	PC6	ICMP		0.000	N	2	

- CONECTIVIDAD ENTRE LA PC6 Y PC1

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

- CONECTIVIDAD ENTRE PC1 Y PC6

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Eq
	Successful	PC1	PC6	ICMP		0.000	N	0	(6
	Successful	PC6	PC1	ICMP		0.000	N	1	(6

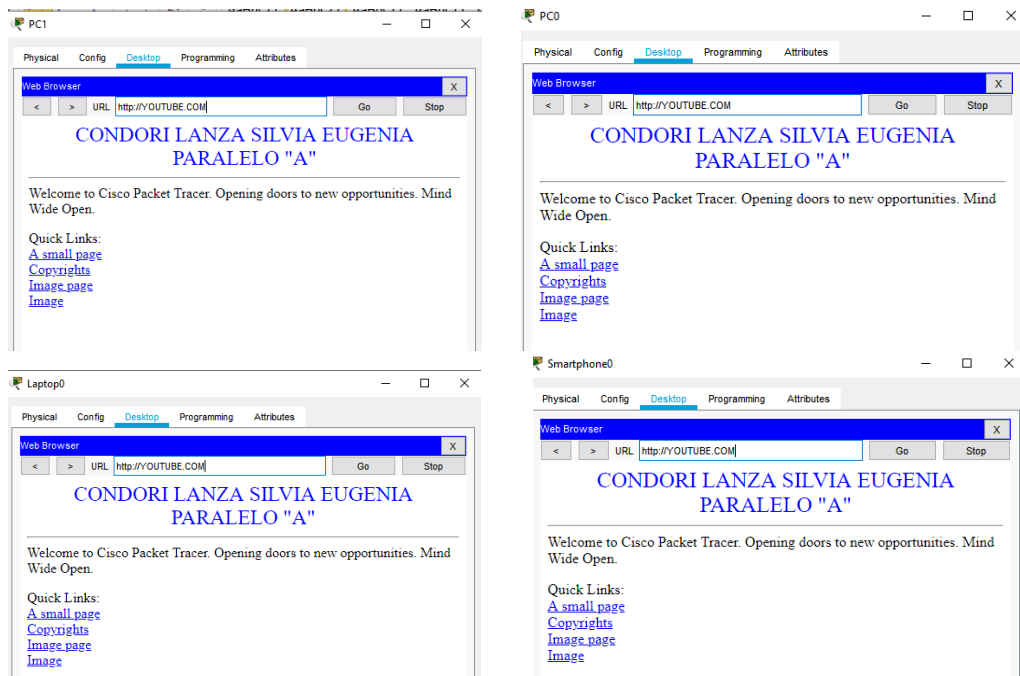
Observamos que si existe conectividad entre las redes virtuales con la red adjuntada

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Eq
	Successful	PC5	Router0	ICMP		0.000	N	0	
	Successful	PC5	PC0	ICMP		0.000	N	1	

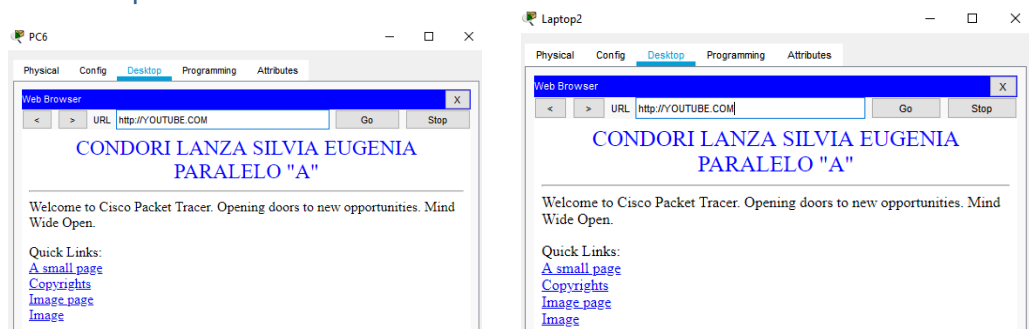
- TODOS LOS HOSTS PUEDAN VER EL HTML DEL SERVIDOR **YOUTUBE.COM**

Realizando las configuraciones necesarias realizamos la prueba de cada hosts para poder entrar al servidor **YOUTUBE.COM**

Los de aquí son del área 1



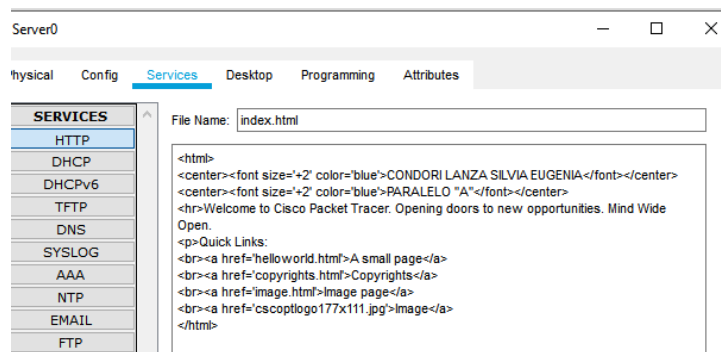
Los de aquí son del area 2





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

Entramos al servidor web y nos vamos services ahí en HTTP nos dirigimos a html y empezamos a editar



SUBIR ENLACE EN GITHUB CON:

- SU PDF MAXIMO 4 PAGINAS)
- DEL ARCHIVO .PKT

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ENTREGA DOMINGO 19 JULIO 2020 HRS 23:59

<https://forms.gle/9Rhuy1DMKeH54x378>