

UNIVERSIDAD MAYOR DE SAN ANDRES -FCPN  
INFORMÁTICA—LAB 273

AP. PAT: LUQUE      AP. MAT: ROMERO      NOMBRE: GUIDO      CI: 9254364 LP  
DOCENTE: LIC. Ramiro Gallardo  
PARALELO A JUEVES

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## SEGUNDA PRACTICA - MODULO 4

### REQUERIMIENTOS

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

Sol.- Se implemento una configuración OSPF en los ROUTER 0 y 1, se denomino las áreas de las redes area 0 la red los router 0 y 1, area 1 la red 198.168.23.0/24 y area 2, area 3, area 4 a las redes VLANS 10, 20, 88 respectivamente, se procede a configurar de la siguiente manera de la siguiente manera:

### Router0

```
Router0
Router0
Physical Config CLI Attributes
Router(config-router)#router ospf 273
00:04:50: %OSPF-5-ADJCHG: Process 273, Nbr 192.168.23.1 on Serial12/0 from FULL to I
00:04:50: %OSPF-5-ADJCHG: Process 273, Nbr 192.168.23.1 on Serial12/0 from FULL to I
Router(config-router)#nwnn
00:04:54: %OSPF-4-ERRRCV: Received invalid packet: mismatch area ID, from backbone
etwo
Router(config-router)#network
00:05:04: %OSPF-4-ERRRCV: Received invalid packet: mismatch area ID, from backbone
Router(config-router)#network
Router(config-router)#network 10.0.0.0
00:05:14: %OSPF-4-ERRRCV: Received invalid packet: mismatch area ID, from backbone
Router(config-router)#network 10.0.0.0 0.255.255.255 area 1
Router(config-router)#
00:05:24: %OSPF-4-ERRRCV: Received invalid packet: mismatch area ID, from backbone
Router(config-router)#nenrouter ospf 273
00:05:34: %OSPF-4-ERRRCV: Received invalid packet: mismatch area ID, from backbone
10.0.0.0 0.255.255.255 area 0
Router(config-router)#
00:05:42: %OSPF-6-AREACHG: 10.0.0.0/0 changed from area 1 to area 0
Router(config-router)#network 10.0.0.0 0.255.255.255 area 0
00:05:44: %OSPF-5-ADJCHG: Procnetwork 10.0.0.0 0.255.255.255 area 0network 10.0.0.0
Router(config-router)#nwnnnet
Router(config-router)#network 172.17.10.0 0.0.0.255 area 2
Router(config-router)#
00:06:18: %OSPF-6-AREACHG: 172.17.10.0/0 changed from area 1 to area 2
network 172.17.10.0 0.0.0.255 area 2
Router(config-router)#network 172.17.20.0 0.0.0.255 area 3
Router(config-router)#
00:06:28: %OSPF-6-AREACHG: 172.17.20.0/0 changed from area 1 to area 3
network 172.17.20.0 0.0.0.255 area 3
Router(config-router)#network 172.17.88.0 0.0.0.255 area 4
Router(config-router)#
```

### Router 1

Router1

Physical Config CLI Attributes

IOS Command Line Interface

```
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router ospf 273
Router(config-router)#netwo
Router(config-router)#network 192.168.23.0 0.0.0.255 area 1
Router(config-router)#network 10.0.0.0 0.255.255.255 area 0
Router(config-router)#
00:04:14: %OSPF-5-ADJCHG: Process 273, Nbr 172.17.88.1 on Serial2/0
from FULL to DOWN, Neighbor Down: Interface down or detached

00:04:14: %OSPF-6-AREACHG: 10.0.0.0/0 changed from area 1 to area 0

Router(config-router)#exit
Router(config)#
00:05:44: %OSPF-5-ADJCHG: Process 273, Nbr 172.17.88.1 on Serial2/0
from LOADING to FULL, Loading Done

Router(config)#interface Serial2/0
Router(config-if)#
Router(config-if)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
c
Router#copy running-config startup-config
Destination filename [startup-config]:
```

- CONECTIVIDAD ENTRE LA PC5 Y PC6

Sol.- Para ello se debe configurar la PC6, la dirección IP y el Gateway al red correcta

PC6

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.23.10

Subnet Mask 255.255.255.0

Default Gateway 192.168.23.1

DNS Server 0.0.0.0

IPv6 Configuration

Realtime Simulation

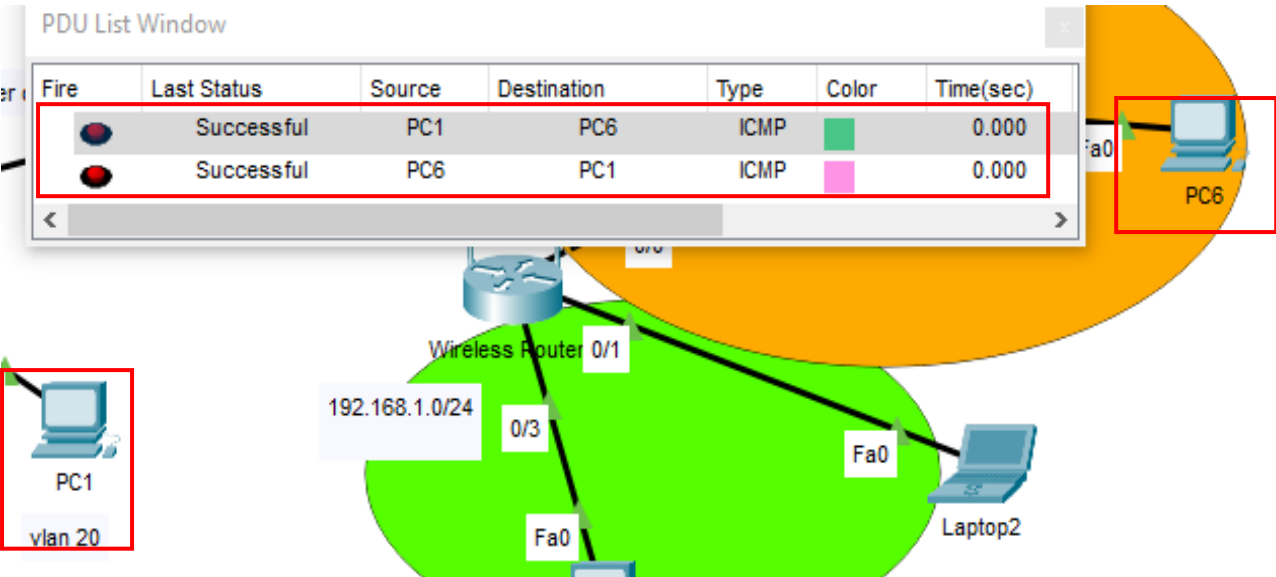
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num
Successful		PC5	PC6	ICMP		0.000	N	0

- CONECTIVIDAD ENTRE LA LAPTOP Y PC6

Realtime Simulation

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num
Successful		Laptop2	PC6	ICMP		0.000	N	0

- CONECTIVIDAD ENTRE LA PC6 Y PC1
- CONECTIVIDAD ENTRE PC1 Y PC6



- TODOS LOS HOSTS PUEDAN VER EL HTML DEL SERVIDOR **YOUTUBE.COM**
- Sol.- Configurar el Wireless Router nuevo y la pc6 sus respectivos DNS

PC6

Wireless Router1

Physical Config **Desktop** Programming Attril

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.23.10

Subnet Mask 255.255.255.0

Default Gateway 192.168.23.1

DNS Server 172.17.10.22

Physical Config **GUI** Attributes

DHCP Server Settings

DHCP Server: ☒ Enabled ☐ Disabled

Start IP Address: 192.168.1. 100

Maximum number of Users: 50

IP Address Range: 192.168.1. 100 - 149

Client Lease Time: 0 minutes (0 means one day)

Static DNS 1: 172 . 17 . 10 . 22

Static DNS 2: 0 . 0 . 0 . 0

Static DNS 3: 0 . 0 . 0 . 0

WINS: 0 . 0 . 0 . 0

ISP Vians

- AL SERVIDOR YOUTUBE.COM MODIFICAR EL HTML Y PONER NOMBRE COMPLETO Y PARALELO
- Sol.- En el servidor DNS modificar el html

Server0

Physical Config **Services** Desktop Programming Attributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

File Name: index.html

Paralelo A, LUQUE ROMERO GUIDO

