



**UNIVERSIDAD AUTÓNOMA DE CHIAPAS**  
**FACULTAD DE CONTADURÍA Y ADMINISTRACIÓN,**  
**CAMPUS I**

**NOMBRE DEL ALUMNO (A):**

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**SEMESTRE: 7 GRUPO: "M"**

**MATRICULA: A210524**

**LICENCIATURA:**

Ingeniería en desarrollo y tecnologías de software.

**NOMBRE DEL DOCENTE:**

Dr. Luis Gutiérrez Alfaro.

**MATERIA:**

Conmutadores y redes inalámbricas.

**ACTIVIDAD:**

Act. 1.4 Realiza la Siguiete práctica en Packet Tracert configuracion de Vlans.

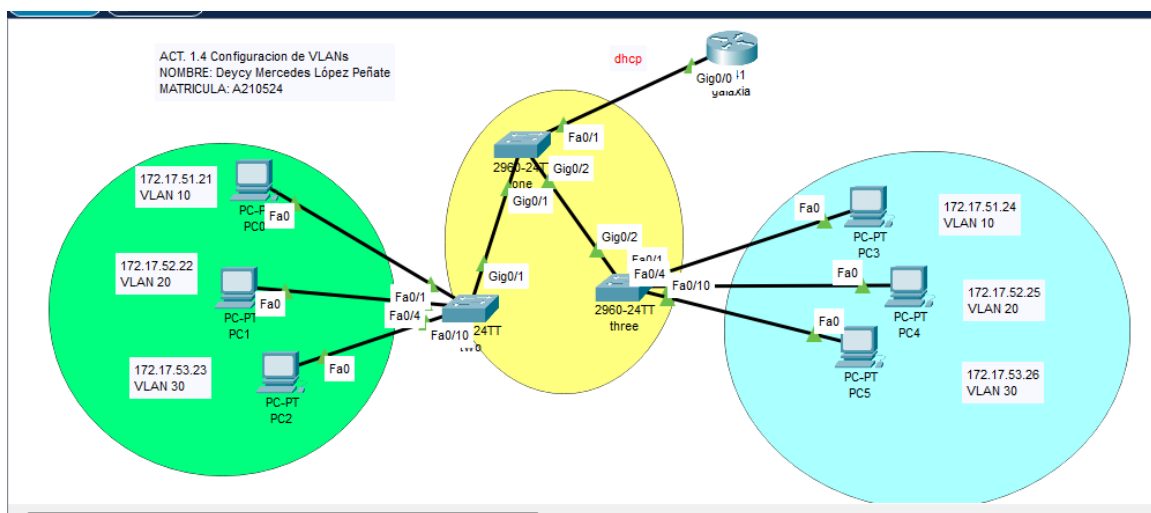
**LUGAR:**

Tuxtla Gutiérrez, Chiapas.

**FECHA DE ENTREGA:**

23 / 08 / 2024

# TOPOLOGÍA



LINK DE GITHUB PARA VER EL ARCHIVO PKT:

[https://github.com/Deycylopez14/Conmutadores\\_redes.git](https://github.com/Deycylopez14/Conmutadores_redes.git)

## PASOS DE LA CONFIGURACION DEL ROUTER Y DE CADA SWITCH

\*\*\*\*\*SWITCH "ONE"\*\*\*\*\*

```
Switch>ena
```

```
Switch#conf t
```

```
Switch(config)#hostname One
```

```
One(config)#vlan 10
```

```
One(config-vlan)#name luna
```

```
One(config-vlan)#vlan 20
```

```
One(config-vlan)#name sol
```

```
One(config-vlan)#vlan 30
```

```
One(config-vlan)#name estrella
```

```
One(config-vlan)#exit
```

```
One(config)#do wr
```

```
One(config)#inter fa0/1
```

```
One(config-if)#switchport mode trunk
One(config-if)#switchport trunk allowed vlan 10,20,30
One(config-if)#end
One(config)#inter range Gig0/1-2
One(config-if-range)#switchport mode trunk
One(config-if-range)#switchport mode trunk
One(config-if-range)#switchport trunk allowed vlan 10,20,30
One(config-if-range)#end
One#sh vlan brief
```

\*\*\*\*\*SWITCH "TWO"\*\*\*

```
Switch>ena
Switch#conf t
Switch(config)#hostname two
two(config)#vlan 10
two(config-vlan)#name luna
two(config-vlan)#vlan 20
two(config-vlan)#name sol
two(config-vlan)#vlan 30
two(config-vlan)#name estrella
two(config-vlan)#exit
two(config)#do wr
two(config)#inter fa0/1
two(config-if)#switchport mode access
two(config-if)#switchport access vlan 10
two(config-if)#exit
two(config)#inter fa0/4
two(config-if)#switchport mode access
two(config-if)#switchport access vlan 20
```

```
two(config-if)#exit
two(config)#inter fa0/10
two(config-if)#switchport mode access
two(config-if)#switchport access vlan 30
two(config-if)#exit
two#sh vlan brief
```

VLAN Name Status Ports

```
-----
1 default active Fa0/2, Fa0/3, Fa0/5, Fa0/6
Fa0/7, Fa0/8, Fa0/9, Fa0/11
Fa0/12, Fa0/13, Fa0/14, Fa0/15
Fa0/16, Fa0/17, Fa0/18, Fa0/19
Fa0/20, Fa0/21, Fa0/22, Fa0/23
Fa0/24, Gig0/2
10 luna active Fa0/1
20 sol active Fa0/4
30 estrella active Fa0/10
1002 fddi-default active
```

\*\*\*\*\*SWITCH "THREE"\*\*\*\*\*

```
Switch>ena
Switch#conf t
Switch(config)#hostname three
three(config)#vlan 10
three(config-vlan)#name luna
three(config-vlan)#vlan 20
three(config-vlan)#name sol
three(config-vlan)#vlan 30
three(config-vlan)#name estrella
three(config-vlan)#exit
```

```
three(config)#do wr
three(config)#inter fa0/1
three(config-if)#switchport mode access
three(config-if)#switchport access vlan 10
three(config-if)#exit
three(config)#inter fa0/4
three(config-if)#switchport mode access
three(config-if)#switchport access vlan 20
three(config-if)#exit
three(config)#inter fa0/10
three(config-if)#switchport mode access
three(config-if)#switchport access vlan 30
three(config-if)#exit
three(config)#do wr
three#sh vlan brief
```

#### VLAN Name Status Ports

```
-----
1 default active Fa0/2, Fa0/3, Fa0/5, Fa0/6
Fa0/7, Fa0/8, Fa0/9, Fa0/11
Fa0/12, Fa0/13, Fa0/14, Fa0/15
Fa0/16, Fa0/17, Fa0/18, Fa0/19
Fa0/20, Fa0/21, Fa0/22, Fa0/23
Fa0/24, Gig0/1
10 luna active Fa0/1
20 sol active Fa0/4
30 estrella active Fa0/10
1002 fddi-default active
three(config)#inter fa0/1
three(config-if)#switchport mode trunk
```

three(config-if)#do wr

\*\*\*\*\*CONFIGURACION DEL ROUTER "GALAXIA"\*\*\*\*\*

Router>ena

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#hostname galaxia

galaxia(config)#interface Gig0/0.10

galaxia(config-subif)#encapsulation dot1Q 10

galaxia(config-subif)#ip address 172.17.51.1 255.255.255.0

galaxia(config-subif)#no shutdown

galaxia(config-subif)#exit

galaxia(config)#interface Gig0/0.20

galaxia(config-subif)#encapsulation dot1Q 20

galaxia(config-subif)#ip address 172.17.52.1 255.255.255.0

galaxia(config-subif)#no shutdown

galaxia(config-subif)#exit

galaxia(config)#interface Gig0/0.30

galaxia(config-subif)#encapsulation dot1Q 30

galaxia(config-subif)#ip address 172.17.53.1 255.255.255.0

galaxia(config-subif)#no shutdown

galaxia(config-subif)#exit

galaxia(config)#do wr

galaxia(config)#ip dhcp pool vlan10

galaxia(dhcp-config)#network 172.17.51.1 255.255.255.0

galaxia(dhcp-config)#network 172.17.51.0 255.255.255.0

galaxia(dhcp-config)#default-router 172.17.51.1

galaxia(dhcp-config)#exit

galaxia#conf t

```
galaxia(config)#ip dhcp pool vlan20
galaxia(dhcp-config)#network 172.17.52.0 255.255.255.0
galaxia(dhcp-config)#default-router 172.17.52.1
galaxia(dhcp-config)#exit
galaxia(config)#ip dhcp pool vlan30
galaxia(dhcp-config)#ip dhcp pool vlan30
galaxia(dhcp-config)#network 172.17.53.0 255.255.255.0
galaxia(dhcp-config)#default-router 172.17.53.1
galaxia(dhcp-config)#exit
galaxia(config)#ip dhcp excluded-address 172.17.51.1
galaxia(config)#ip dhcp excluded-address 172.17.52.1
galaxia(config)#ip dhcp excluded-address 172.17.53.1
galaxia(config)#do wr
galaxia(config)#inter Gig0/0
galaxia(config-if)#no sh
```