

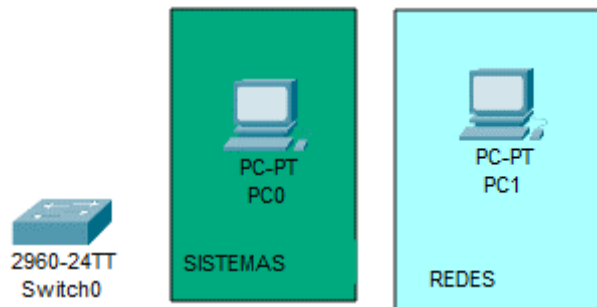
TALLER CONFIGURACION DE UNA VLAN

ANDERSON RENE GOMEZ AZA

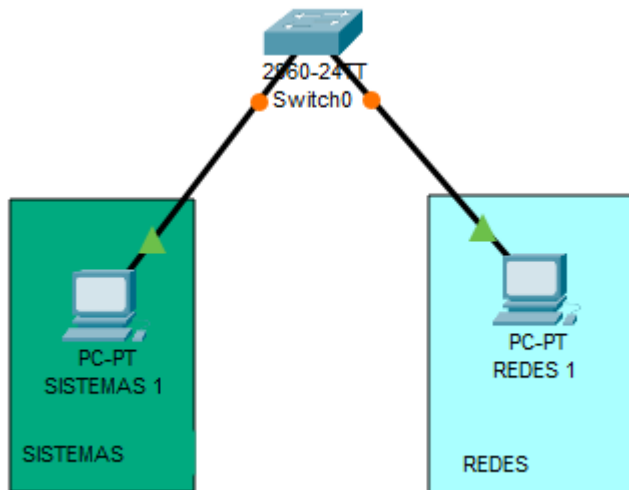
S7B

TELEMATICA 1

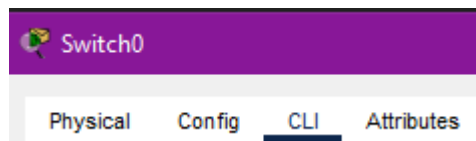
1. Generar dos VLAN utilizando el switch más básico teniendo en cuenta los comandos básicos para su funcionamiento.
 - a. Creamos la red con un switch y dos pc que serían como los departamentos



- b. Conectamos y hacemos la red



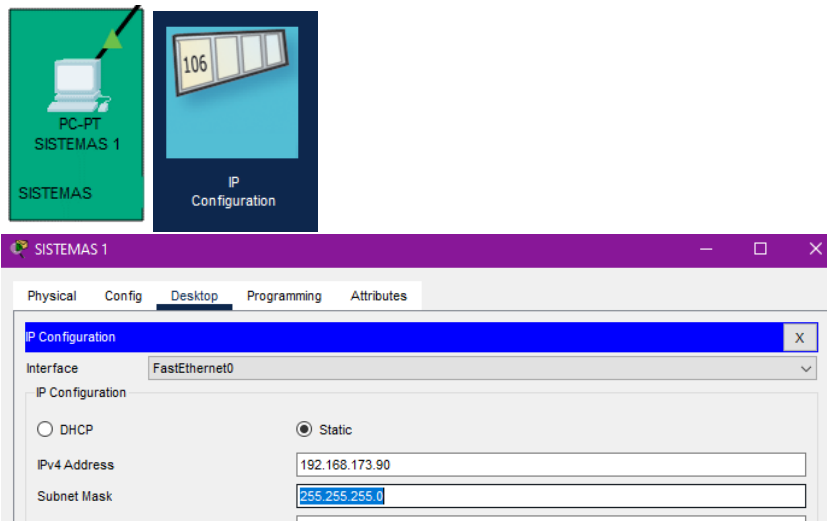
- c. Creamos las VLANS desde el cli del switch



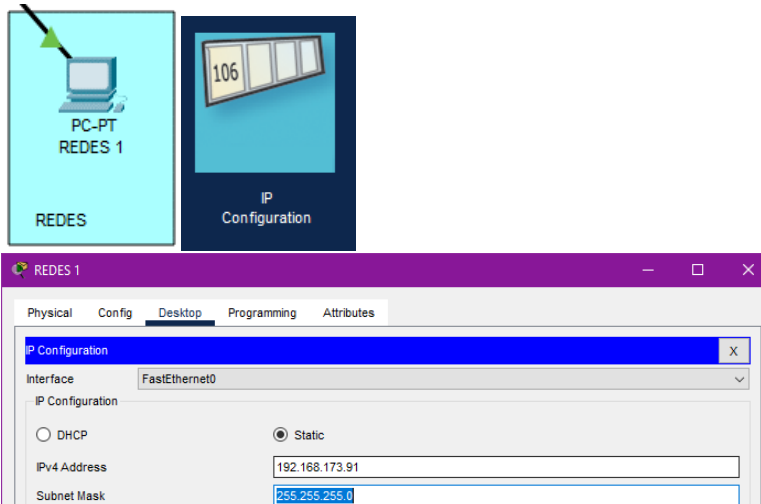
```
Switch>ENABLE
Switch#config t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 11
Switch(config-vlan)#name VLAN-SISTEMAS
Switch(config-vlan)#exit
Switch(config)#vlan 12
Switch(config-vlan)#name VLAN-REDES
Switch(config-vlan)#exit
Switch(config)#
```

2. Asignar las respectivas direcciones IP a los equipos.

a. Equipo Sistemas 1



b. Equipo Redes 1



3. cambiar el nombre del switch por el de cada alumno.

```
Switch>enable
Switch#config
Configuring from terminal, memory, or network [terminal]? terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname AndersonGomezSwitch
AndersonGomezSwitch(config)#
```

4. Ingresar al CLI del switch y asignar la seguridad básica de acceso al modo enable creando un password.

```
AndersonGomezSwitch(config)#
AndersonGomezSwitch(config)#enable secret 1234
AndersonGomezSwitch>
AndersonGomezSwitch>enable
Password:
AndersonGomezSwitch#
```

5. Analizar dentro de la clasificación de las VLAN a cual tipo de configuración pertenece la que estamos creando.

Dentro de la clasificación de las VLAN (Virtual LANs), la configuración que hemos creado al establecer una contraseña para el modo enable en un switch de Cisco pertenece al aspecto de "Seguridad" en la configuración de VLAN.

6. Realizar un ping entre las VLAN y analizar su comportamiento.

- a. Comportamiento sin los puertos configurados de la vlan

The image displays two screenshots of the Cisco Packet Tracer interface, specifically the 'Command Prompt' window for two different PCs. The top screenshot is for 'PC 1' (labeled 'REDES 1') and shows a successful ping to IP 192.168.173.90. The bottom screenshot is for 'PC 2' (labeled 'SISTEMAS 1') and shows a successful ping to IP 192.168.173.91. Both screenshots show the 'Desktop' tab selected and the 'Command Prompt' window open.

PC 1 (REDES 1) Command Prompt:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.173.90

Pinging 192.168.173.90 with 32 bytes of data:

Reply from 192.168.173.90: bytes=32 time<1ms TTL=128
Reply from 192.168.173.90: bytes=32 time<1ms TTL=128
Reply from 192.168.173.90: bytes=32 time<1ms TTL=128
Reply from 192.168.173.90: bytes=32 time=5ms TTL=128

Ping statistics for 192.168.173.90:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 5ms, Average = 1ms
```

PC 2 (SISTEMAS 1) Command Prompt:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.173.91

Pinging 192.168.173.91 with 32 bytes of data:

Reply from 192.168.173.91: bytes=32 time<1ms TTL=128
Reply from 192.168.173.91: bytes=32 time=7ms TTL=128
Reply from 192.168.173.91: bytes=32 time<1ms TTL=128
Reply from 192.168.173.91: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.173.91:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 7ms, Average = 1ms
```

- b. Comportamiento con los puertos configurados de la vlan

```
C:\>ping 192.168.173.90

Pinging 192.168.173.90 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.173.90:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.173.91

Pinging 192.168.173.91 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.173.91:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

7. Generar un listado de las VLAN's creadas (buscar que comando nos permite ver esta información).

```
AndersonGomezSwitch#
%SYS-5-CONFIG_I: Configured from console by console
show vlan
```

VLAN	Name	Status	Ports
1	default	active	Fa0/3, Fa0/4, Fa0/5, Fa0/6 Fa0/7, Fa0/8, Fa0/9, Fa0/10 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, Gig0/2
11	VLAN-SISTEMAS	active	Fa0/1
12	VLAN-REDES	active	Fa0/2
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2
1	enet	100001	1500	-	-	-	-	-	0	0
11	enet	100011	1500	-	-	-	-	-	0	0
12	enet	100012	1500	-	-	-	-	-	0	0
1002	fddi	101002	1500	-	-	-	-	-	0	0