TALLER CONFIGURACION DE UNA VLAN

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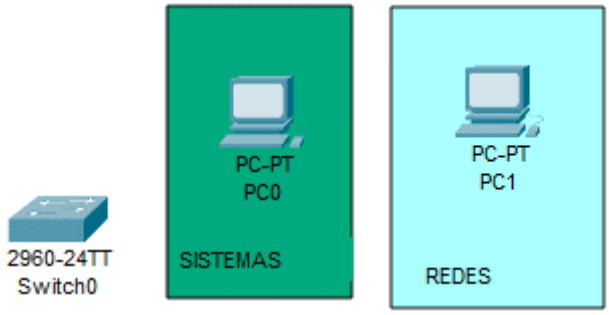
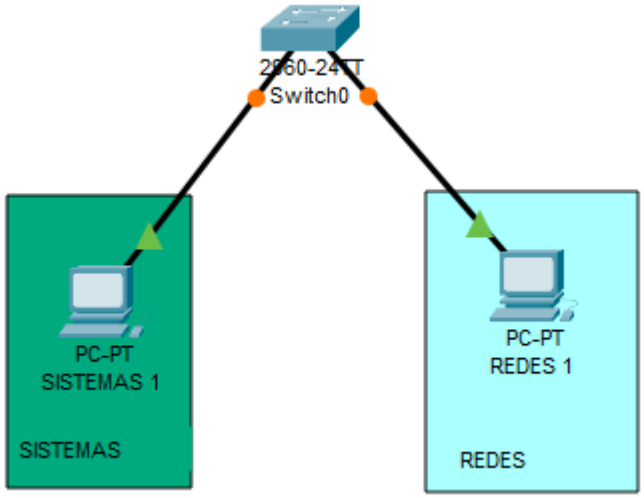
S7B

TELEMATICA 1

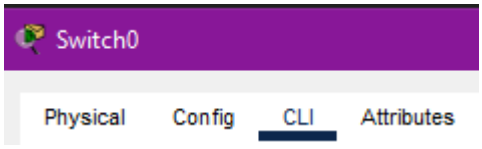
1. Generar dos VLAN utilizando el switch más básico teniendo en cuenta los comandos básicos para su funcionamiento.
    a. Creamos la red con un switch y dos pc que serían como los departamentos



    b. Conectamos y hacemos la red

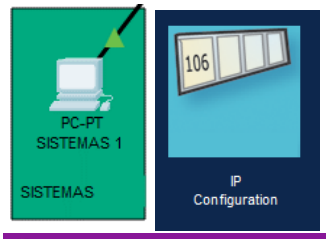


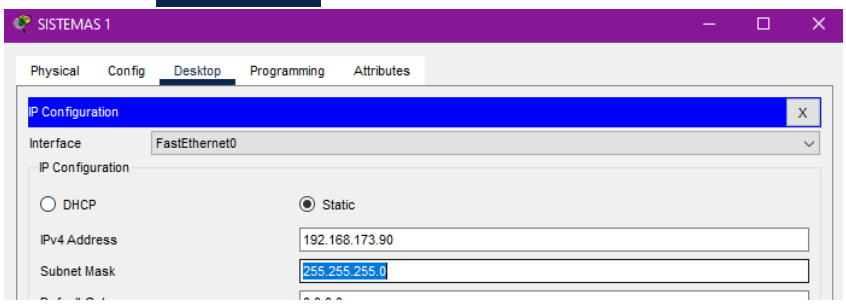
    c. Creamos las VLANS desde el cli del switch



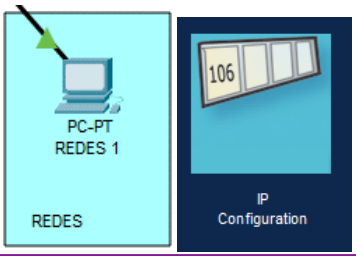
```
Switch>ENABLE
Switch#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#vlan 11
Switch(config-vlan)#name VLAN-SISTEMAS
Switch(config-vlan)#exit
Switch(config)#vlan 12
Switch(config-vlan)#name VLAN-REDES
Switch(config-vlan)#exit
Switch(config)#
```

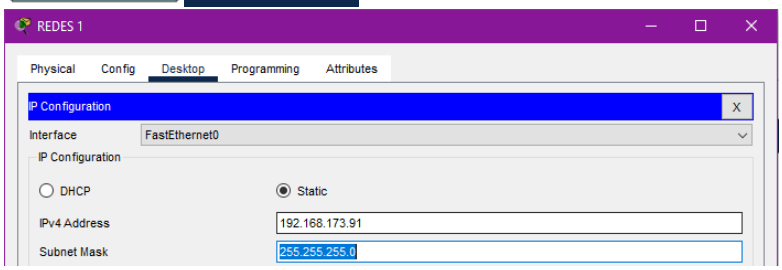
2. Asignar las respectivas direcciones IP a los equipos.
   a. Equipo Sistemas 1





   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)#
```

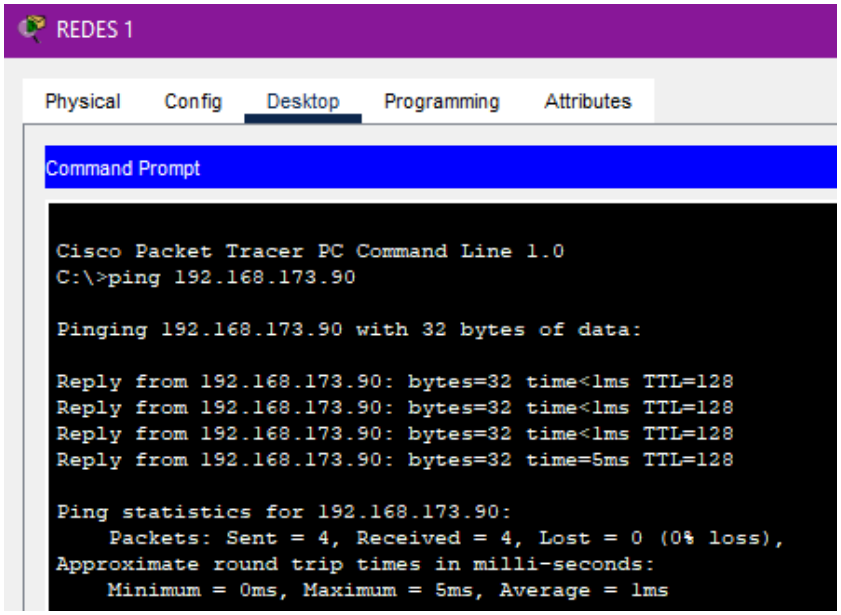
4. Ingresar al CLI del switch y asignar la seguridad básica de acceso al modo enable creando un password.

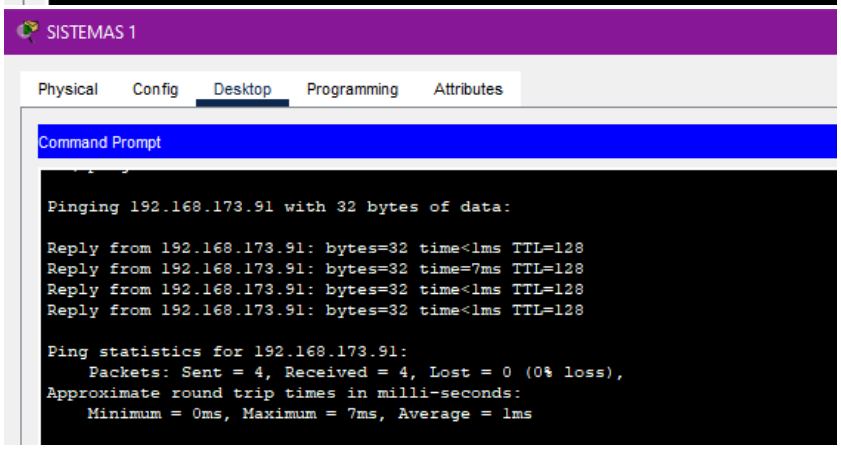
```
AndersonGomezSwitch(config)#
AndersonGomezSwitch(config)#enable secret 1234
AndersonGomezSwitch>
AndersonGomezSwitch>enable
Password:
AndersonGomezSwitch#
```

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





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.
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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 ve 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
```