INGENIERIA EN SISTEMAS COMPUTACIONALES

- ESCUELA: UNIVERSIDAD DEL SURESTE.
- CARRERA: INGENIERIA EN SISTMAS COMPUTACIONALES.

- DOCENTE: EDUARDO GENNER ESCALANTE CRUZ.
- MATERIA: REDES DE COMPUTADORAS II.
- MODULO: 1°- MODULO.
- TEMA: PRACTICA VLAN.

- ALUMNA: LAURA DENIS TON HERNANDEZ

- SEMESTRE: 6 CUATRIMESTRE

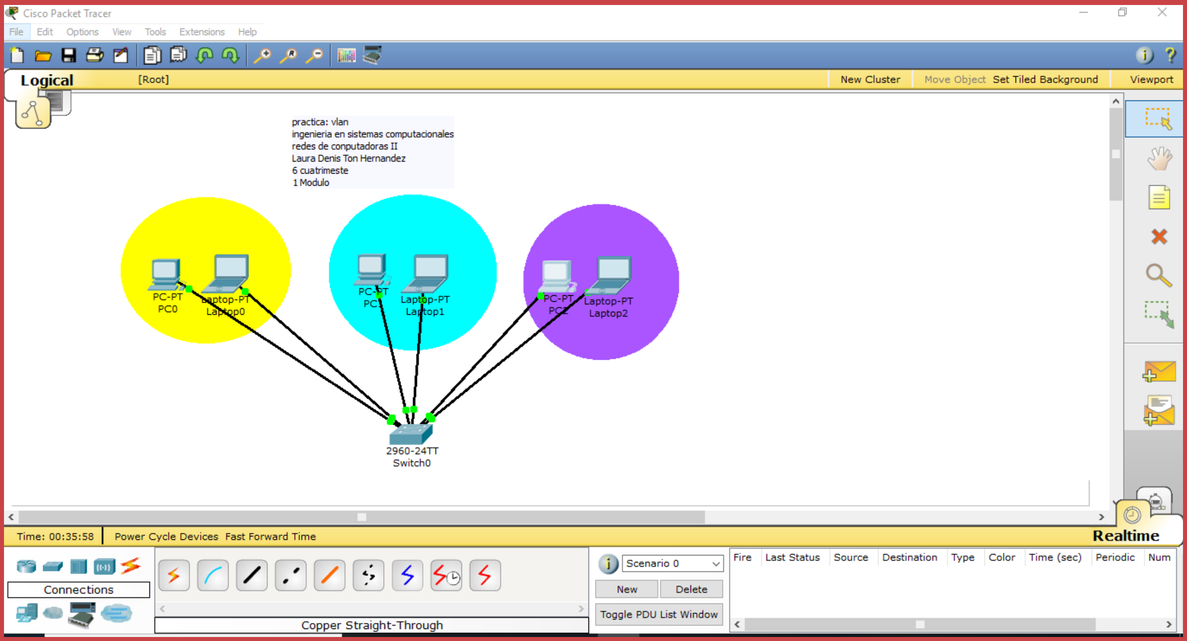
- FECHA: 15/ JUNIO/ 2020

Practica de vlan en el programa de programación packet tracer

Materiales:

- 1 switch
- 3 pc
- 3 laptop
- 6 conectores

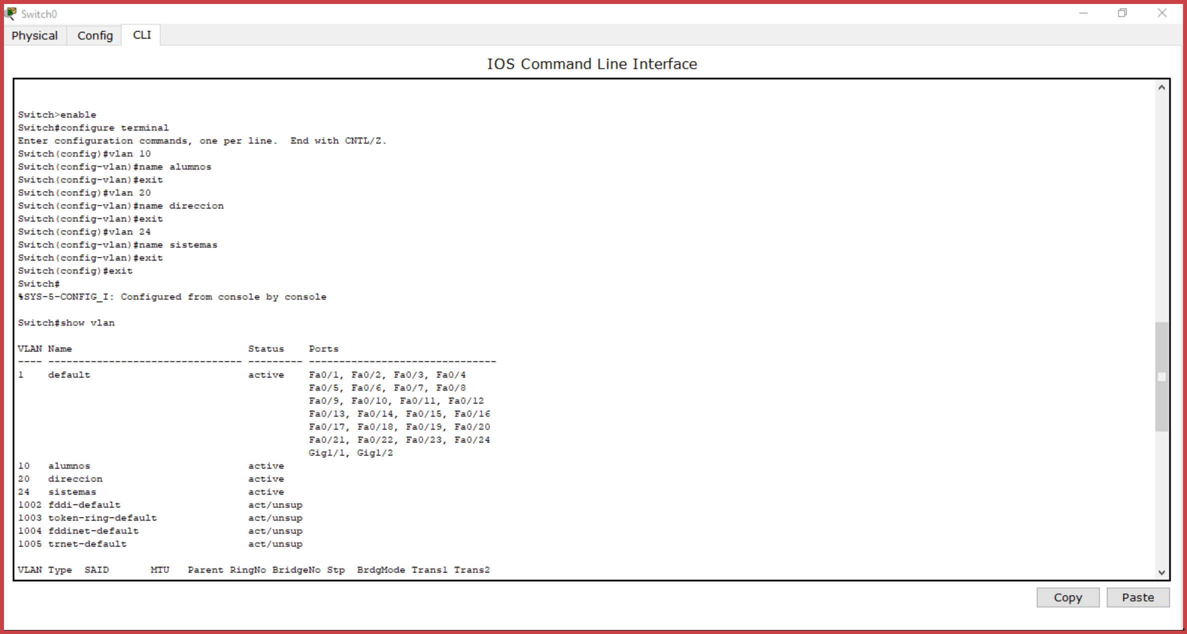
CAPTURA DE LA PRÁCTICA DE VLAN REALIZADA.



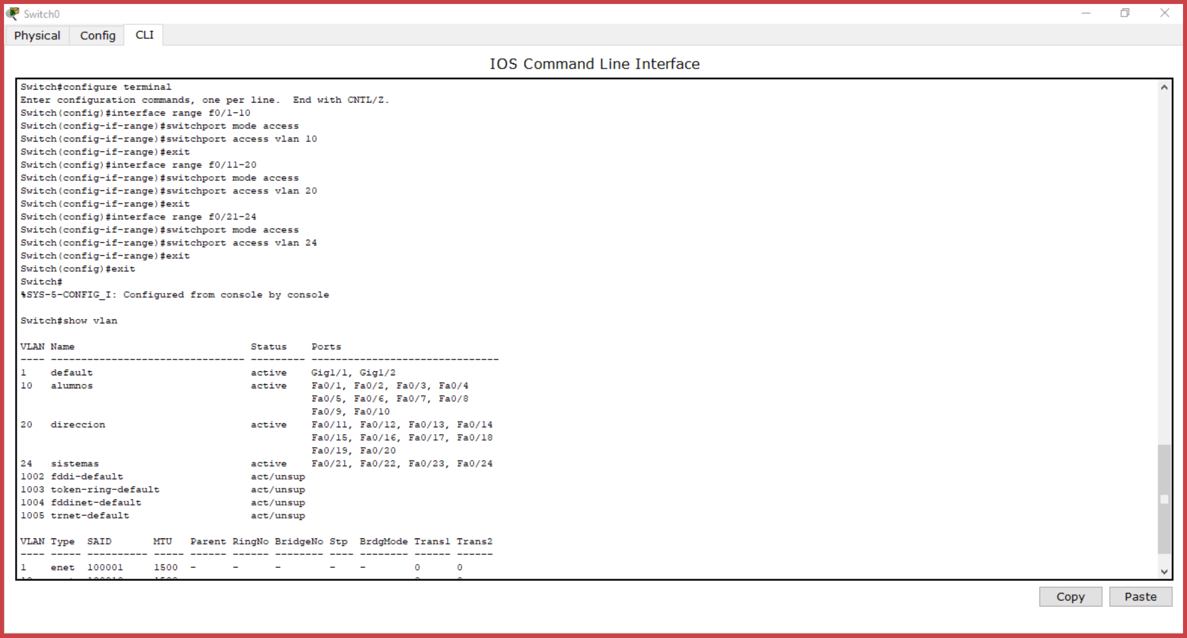
practica: vlan
ingenieria en sistemas computacionales
redes de conputadoras II
Laura Denis Ton Hernandez
6 cuatrimeste
1 Modulo

Cisco Packet Tracer
File
Edit
Options
View
Tools
Extensions
Help
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
PC-PT
PC0
Laptop-PT
Laptop0
PC-PT
PC1
Laptop-PT
Laptop1
PC-PT
PC2
Laptop-PT
Laptop2
2960-24TT
Switch0
Time: 00:35:58
Power Cycle Devices
Fast Forward Time
Realtime
Connections
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time (sec)
Periodic
Num

PROGRAMACIÓN DE SWITCH:



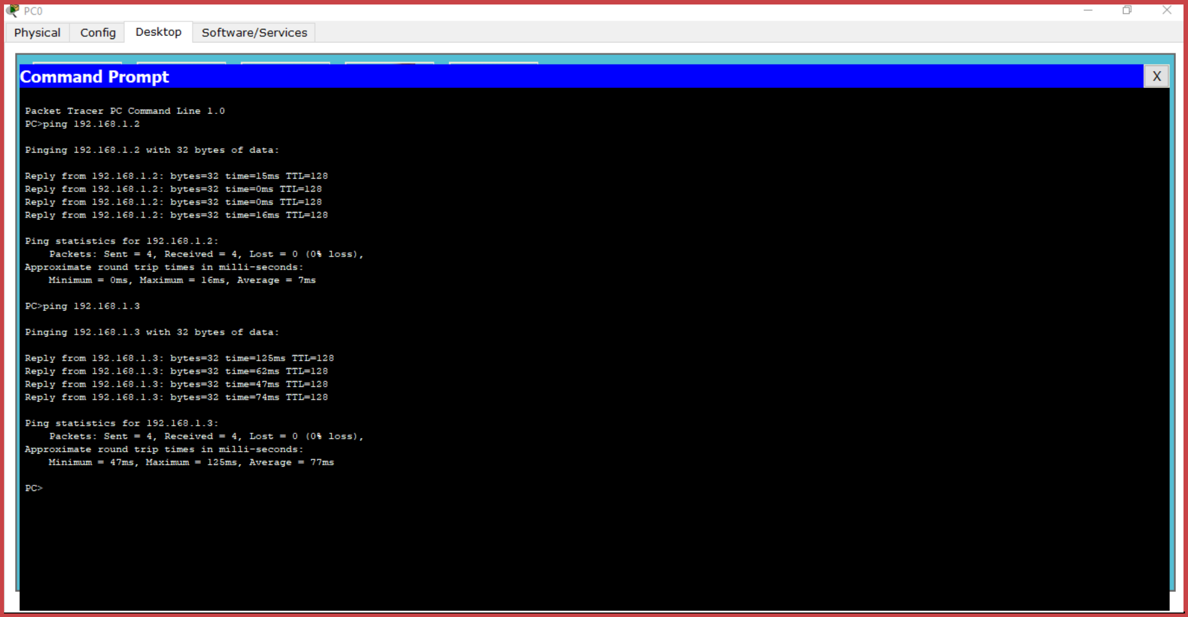
```
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#vlan 10
Switch(config-vlan)#name alumnos
Switch(config-vlan)#exit
Switch(config)#vlan 20
Switch(config-vlan)#name direccion
Switch(config-vlan)#exit
Switch(config)#vlan 24
Switch(config-vlan)#name sistemas
Switch(config-vlan)#exit
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#show vlan

VLAN Name                             Status    Ports
---- -------------------------------- --------- -------------------------------
1    default                          active    Fa0/1, Fa0/2, 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
                                                Gig1/1, Gig1/2
10   alumnos                          active
20   direccion                        active
24   sistemas                         active
1002 fddi-default                     act/unsup
1003 token-ring-default               act/unsup
1004 fddinet-default                  act/unsup
1005 trnet-default                    act/unsup

VLAN Type  SAID       MTU   Parent RingNo BridgeNo Stp  BrdgMode Trans1 Trans2
```



```
Switch#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#interface range f0/1-10
Switch(config-if-range)#switchport mode access
Switch(config-if-range)#switchport access vlan 10
Switch(config-if-range)#exit
Switch(config)#interface range f0/11-20
Switch(config-if-range)#switchport mode access
Switch(config-if-range)#switchport access vlan 20
Switch(config-if-range)#exit
Switch(config)#interface range f0/21-24
Switch(config-if-range)#switchport mode access
Switch(config-if-range)#switchport access vlan 24
Switch(config-if-range)#exit
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#show vlan

VLAN Name                             Status    Ports
---- -------------------------------- --------- -------------------------------
1    default                          active    Gig1/1, Gig1/2
10   alumnos                          active    Fa0/1, Fa0/2, Fa0/3, Fa0/4
                                                Fa0/5, Fa0/6, Fa0/7, Fa0/8
                                                Fa0/9, Fa0/10
20   direccion                        active    Fa0/11, Fa0/12, Fa0/13, Fa0/14
                                                Fa0/15, Fa0/16, Fa0/17, Fa0/18
                                                Fa0/19, Fa0/20
24   sistemas                         active    Fa0/21, Fa0/22, Fa0/23, Fa0/24
1002 fddi-default                     act/unsup
1003 token-ring-default               act/unsup
1004 fddinet-default                  act/unsup
1005 trnet-default                    act/unsup

VLAN Type  SAID       MTU   Parent RingNo BridgeNo Stp  BrdgMode Trans1 Trans2
---- ----- ---------- ----- ------ ------ -------- ---- -------- ------ ------
1    enet  100001     1500  -      -      -        -    -        0      0
```

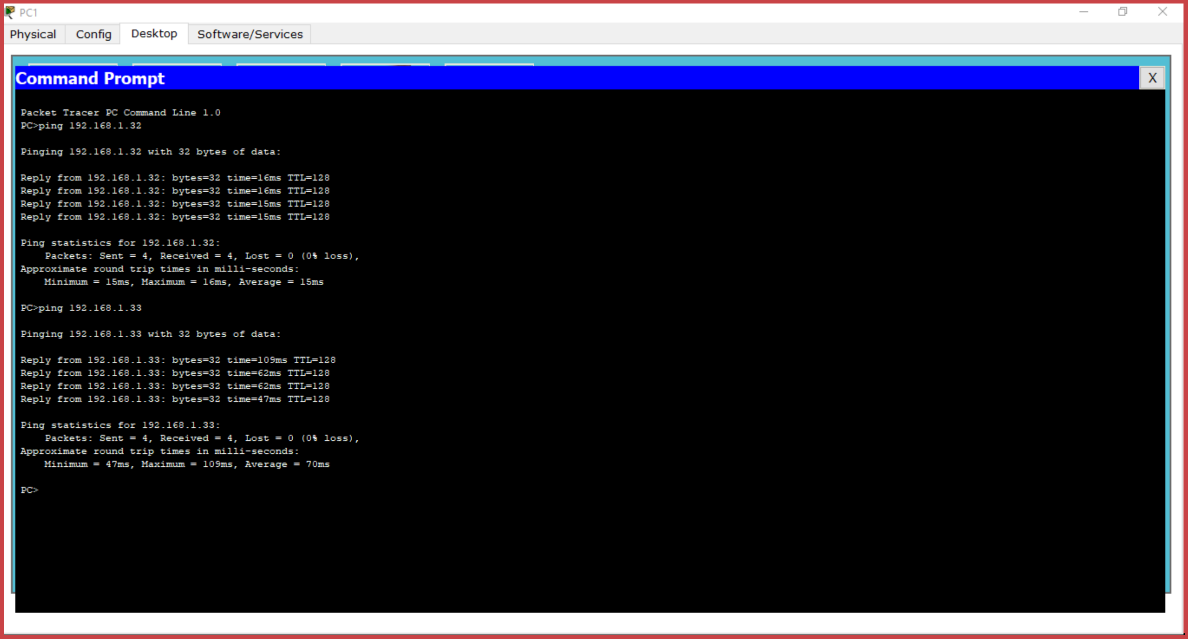
COMPROBACIÓN DE RED DE LOS EQUIPOS DE COMPUTADORA LA COMPROBACIÓN SE HACE CON UN PC.

1vlan alumnos.



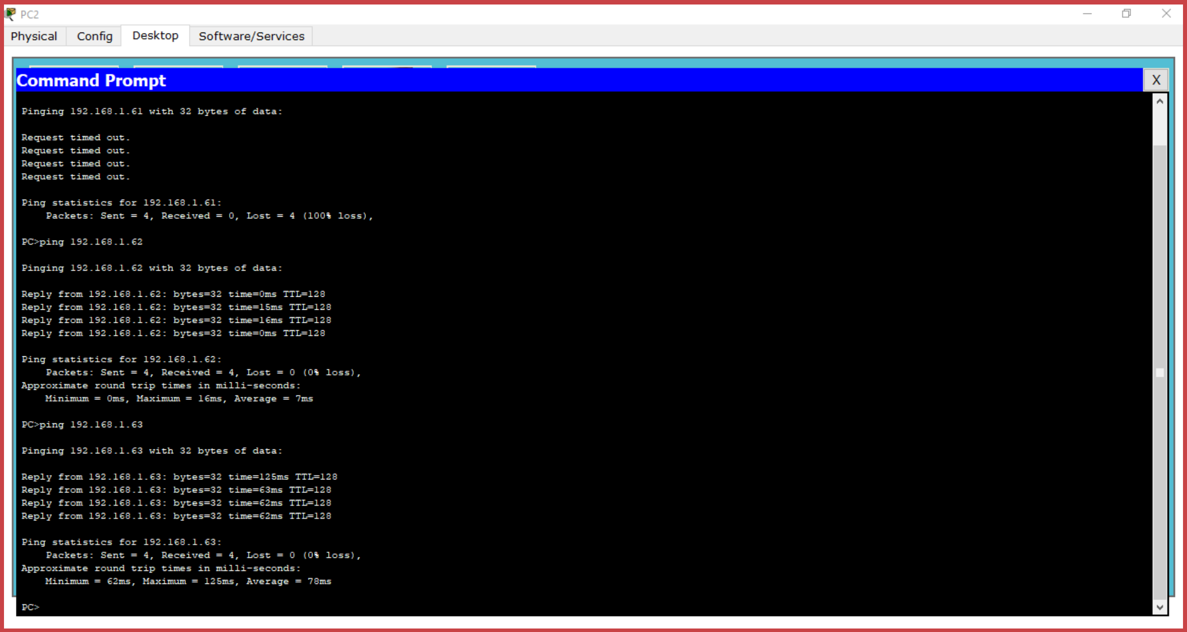
```
Packet Tracer PC Command Line 1.0
PC>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time=15ms TTL=128
Reply from 192.168.1.2: bytes=32 time=0ms TTL=128
Reply from 192.168.1.2: bytes=32 time=0ms TTL=128
Reply from 192.168.1.2: bytes=32 time=16ms TTL=128

Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 16ms, Average = 7ms

PC>ping 192.168.1.3

Pinging 192.168.1.3 with 32 bytes of data:

Reply from 192.168.1.3: bytes=32 time=125ms TTL=128
Reply from 192.168.1.3: bytes=32 time=62ms TTL=128
Reply from 192.168.1.3: bytes=32 time=47ms TTL=128
Reply from 192.168.1.3: bytes=32 time=74ms TTL=128

Ping statistics for 192.168.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 47ms, Maximum = 125ms, Average = 77ms

PC>
```

2vlan dirección.



```
Packet Tracer PC Command Line 1.0
PC>ping 192.168.1.32

Pinging 192.168.1.32 with 32 bytes of data:

Reply from 192.168.1.32: bytes=32 time=16ms TTL=128
Reply from 192.168.1.32: bytes=32 time=16ms TTL=128
Reply from 192.168.1.32: bytes=32 time=15ms TTL=128
Reply from 192.168.1.32: bytes=32 time=15ms TTL=128

Ping statistics for 192.168.1.32:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 15ms, Maximum = 16ms, Average = 15ms

PC>ping 192.168.1.33

Pinging 192.168.1.33 with 32 bytes of data:

Reply from 192.168.1.33: bytes=32 time=109ms TTL=128
Reply from 192.168.1.33: bytes=32 time=62ms TTL=128
Reply from 192.168.1.33: bytes=32 time=62ms TTL=128
Reply from 192.168.1.33: bytes=32 time=47ms TTL=128

Ping statistics for 192.168.1.33:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 47ms, Maximum = 109ms, Average = 70ms

PC>
```

3 vlan sistemas.



```
Pinging 192.168.1.61 with 32 bytes of data:

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

Ping statistics for 192.168.1.61:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

PC>ping 192.168.1.62

Pinging 192.168.1.62 with 32 bytes of data:

Reply from 192.168.1.62: bytes=32 time=0ms TTL=128
Reply from 192.168.1.62: bytes=32 time=15ms TTL=128
Reply from 192.168.1.62: bytes=32 time=16ms TTL=128
Reply from 192.168.1.62: bytes=32 time=0ms TTL=128

Ping statistics for 192.168.1.62:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 16ms, Average = 7ms

PC>ping 192.168.1.63

Pinging 192.168.1.63 with 32 bytes of data:

Reply from 192.168.1.63: bytes=32 time=125ms TTL=128
Reply from 192.168.1.63: bytes=32 time=63ms TTL=128
Reply from 192.168.1.63: bytes=32 time=62ms TTL=128
Reply from 192.168.1.63: bytes=32 time=62ms TTL=128

Ping statistics for 192.168.1.63:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 62ms, Maximum = 125ms, Average = 78ms

PC>
```

Conclusión:

Esta práctica de vlan aprendí algo número fue una práctica muy interesante, no fue tan complicada realizarla pero si es muy importante para mi esta esta práctica pude aprender nuevos comandos cisco:

- ✓ Enable
- ✓ Configure terminal
- ✓ Vlan 10
- ✓ Name alumnos
- ✓ Exit
- ✓ Show vlan
- ✓ Interface range f0/1-15
- ✓ Switchport mode Access
- ✓ Switchport Access vlan 10

Estos comandos fueron algo nuevo para y es la parte más importante de esta práctica.