



UNIVERSIDAD AUTONOMA DE CHIAPAS

VELAZQUEZ MARTINEZ EDGAR ALEJANDRO

LUIS ALFARO GUTIERREZ

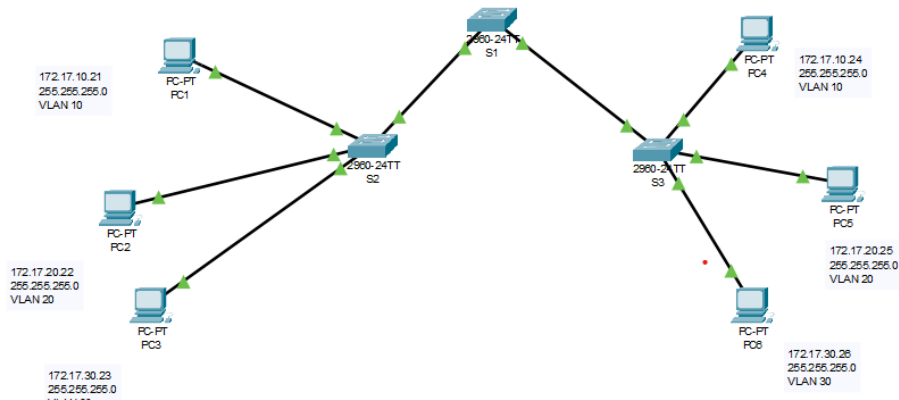
CONMUTADORES Y REDES INALAMBBRICAS

7 M



Logical Physical x: 802, y: 403

Root 00:15:00

EDGAR ALEJANDRO VELAZQUEZ MARTINEZ
Matricula: A200114

Time: 00:01:59

Realtime Simulation



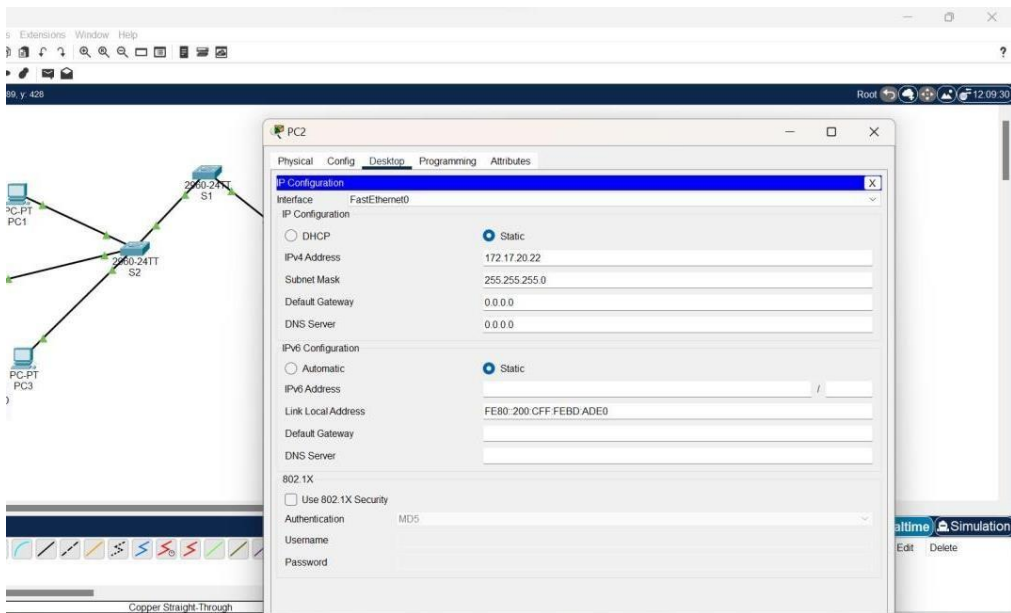
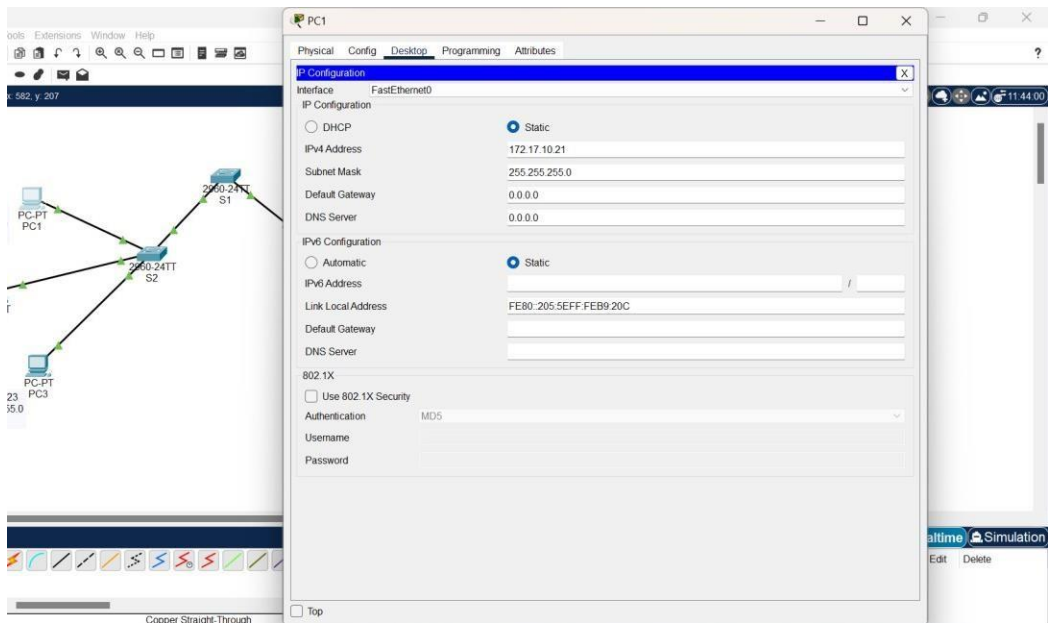
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit
●	--	PC1	PC4	ICMP		0.000	N	0	(edit)
●	--	PC2	PC5	ICMP		0.000	N	1	(edit)
●	--	PC3	PC6	ICMP		0.000	N	2	(edit)

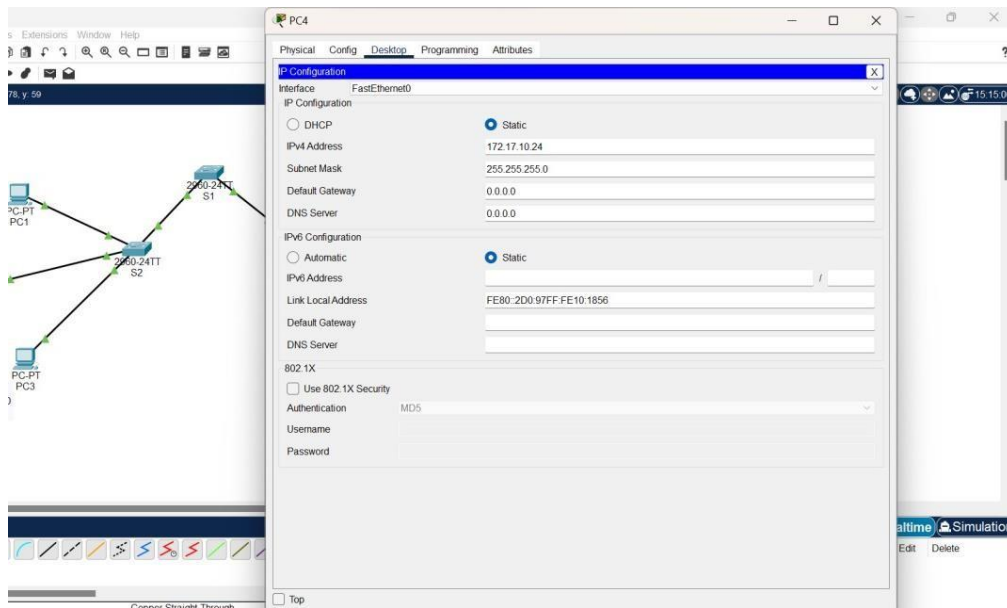
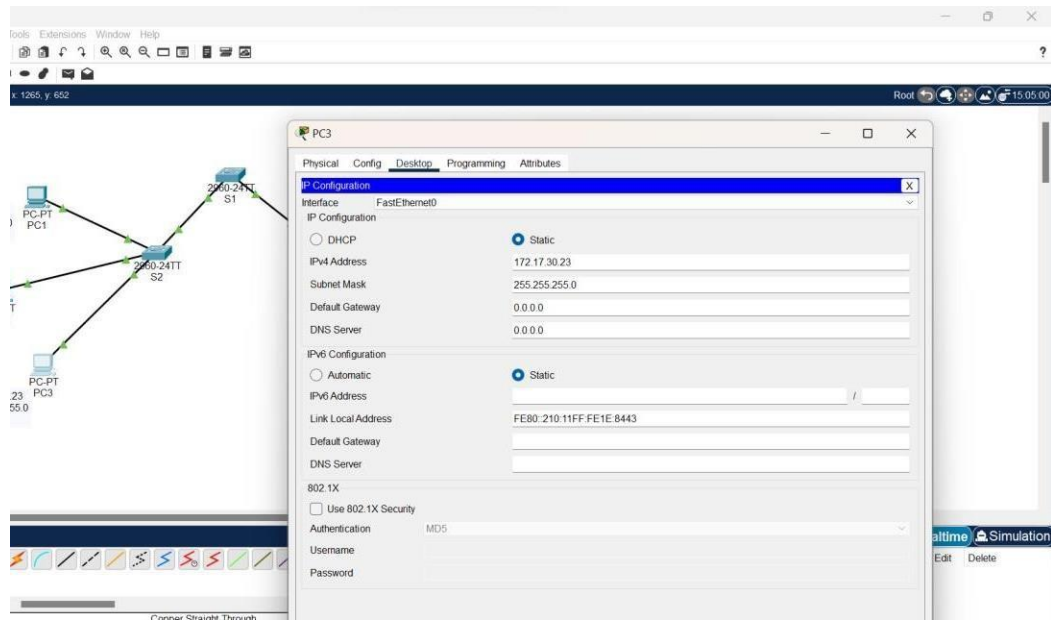
Buscar



29°C Soleado

02:13 p.m.
20/11/2023





Tools Extensions Window Help

441, y 280

Root 15:29:30

PC-P1
PC-P2
PC3
S1
S2

PC5

Physical Config Desktop Programming Attributes

P Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 172.17.20.25

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address

Link Local Address FE80:250:FFF:FEB3:DE70

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

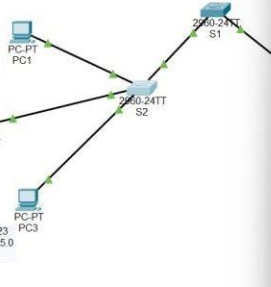
Authentication MD5

Username

Password

Simulation

Edit Delete



79, y: 372

Physical Config CLI Attributes

IOS Command Line Interface

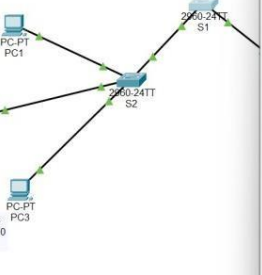
```
Switch>ena
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname S2
S2(config)#vlan 10
S2(config-vlan)#name vlan10
S2(config-vlan)#exit
S2(config)#vlan 20
S2(config-vlan)#name vlan20
S2(config-vlan)#exit
S2(config)#vlan 30
S2(config-vlan)#name vlan30
S2(config-vlan)#exit
S2(config)#exit
S2#
%SYS-5-CONFIG_I: Configured from console by console

S2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S2(config)#inter f0/11
S2(config-if)#switchport mode access
% Invalid input detected at '^' marker.
S2(config-if)#switchport mode access
% Invalid input detected at '^' marker.
S2(config-if)#switchport mode access
S2(config-if)#switchport access vlan 10
S2(config-if)#exit
S2(config)#inter f0/18
S2(config-if)#switchport access vlan 20
S2(config-if)#switchport mode access
S2(config-if)#switchport access vlan 20
S2(config-if)#switchport mode access
S2(config-if)#exit
S2(config)#inter f0/6
S2(config-if)#switchport mode access
S2(config-if)#switchport access vlan 30
S2(config-if)#exit
S2(config)#
S2(config)#inter g 0/1
S2(config-if)#switchport mode trunk
```

Copy Paste

alttime Simulation

Edit Delete



1221, y: 656

Physical Config CLI Attributes

IOS Command Line Interface

```
$LINK-5-CHANGED: Interface GigabitEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to up

Switch>ena
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname S1
S1(config)#vlan 10
S1(config-vlan)#name vlan10
S1(config-vlan)#exit
S1(config)#vlan 20
S1(config-vlan)#name vlan20
S1(config-vlan)#exit
S1(config)#vlan 30
S1(config-vlan)#name vlan30
S1(config-vlan)#exit
S1(config)#%SPANTREE-2-RECV_FVID_ERR: Received 802.1Q BPDU on non trunk GigabitEthernet0/1
VLAN1.
%SPANTREE-2-BLOCK_FVID_LOCAL: Blocking GigabitEthernet0/1 on VLAN0001. Inconsistent port type.

S1(config)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up
S1(config)#inter range giga0/1-2
S1(config-if-range)#switchport mode trunk

S1(config-if-range)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to up

S1(config-if-range)#exit
S1(config)#
```

Copy Paste

alttime Simulation

Edit Delete

The image shows a Cisco Packet Tracer window with a network diagram on the left and the CLI configuration for switch S3 on the right.

Network Diagram: A central switch S2 (2960-24TT) is connected to three PCs (PC1, PC2, PC3) and two other switches (S1 and S3). S1 and S3 are also connected to each other.

CLI Configuration for S3:

```

Switch>ena
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname S3
S3(config)#vlan 10
S3(config-vlan)#name vlan10
S3(config-vlan)#exit
S3(config)#vlan 20
S3(config-vlan)#name vlan20
S3(config-vlan)#exit
S3(config)#vlan 30
S3(config-vlan)#name vlan30
S3(config-vlan)#exit
S3(config)#%BPANTREE-2-RECV_PVID_ERR: Received 802.1Q BPDU on non trunk GigabitEthernet0/1
VLAN1..
%BPANTREE-2-BLOCK_PVID_LOCAL: Blocking GigabitEthernet0/1 on VLAN0001. Inconsistent port type.
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up
S3(config)#inter f0/11
S3(config-if)#switchport mode access
S3(config-if)#switchport access vlan 10
S3(config-if)#exit
S3(config)#inter f0/18
S3(config-if)#switchport access vlan 20
S3(config-if)#exit
S3(config)#inter f0/6
S3(config-if)#switchport mode access
S3(config-if)#switchport access vlan 6
% Access VLAN does not exist. Creating vlan 6
S3(config-if)#switchport access vlan 30
S3(config-if)#inter f0/18
S3(config-if)#switchport mode access
S3(config-if)#switchport access vlan 20
S3(config-if)#inter g0/1
S3(config-if)#switchport mode trunk
S3(config-if)#
  
```

The image shows a Cisco Packet Tracer window with a network diagram and the Realtime simulation window.

Network Diagram: A central switch S2 (2960-24TT) is connected to three PCs (PC1, PC2, PC3) and two other switches (S1 and S3). S1 and S3 are also connected to each other. The diagram shows IP addresses and VLANs for each device.

Realtime Simulation Window:

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit
PC1	PC4	ICMP	0.000	N	0	(edit)			
PC2	PC5	ICMP	0.000	N	1	(edit)			
PC3	PC6	ICMP	0.000	N	2	(edit)			