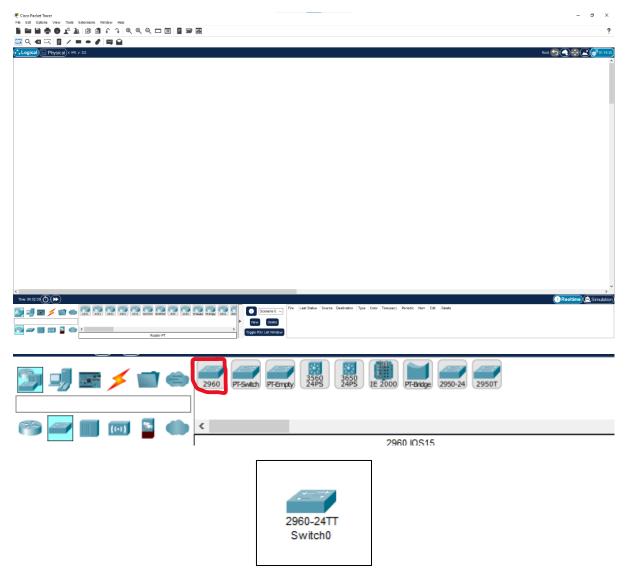
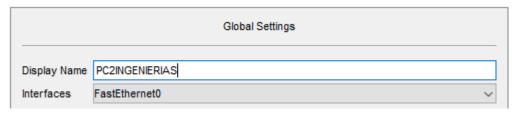
Laboratorio 22-23

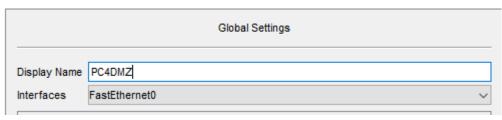


Se colocan 6 computadores

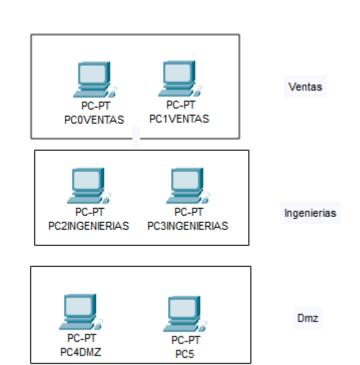


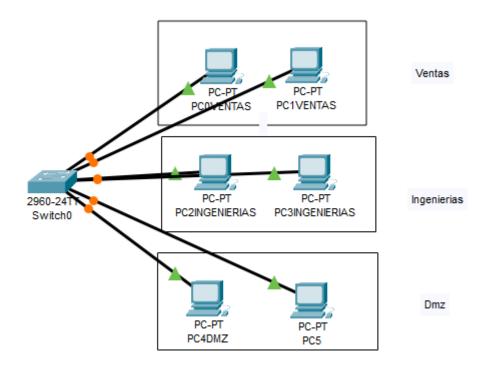




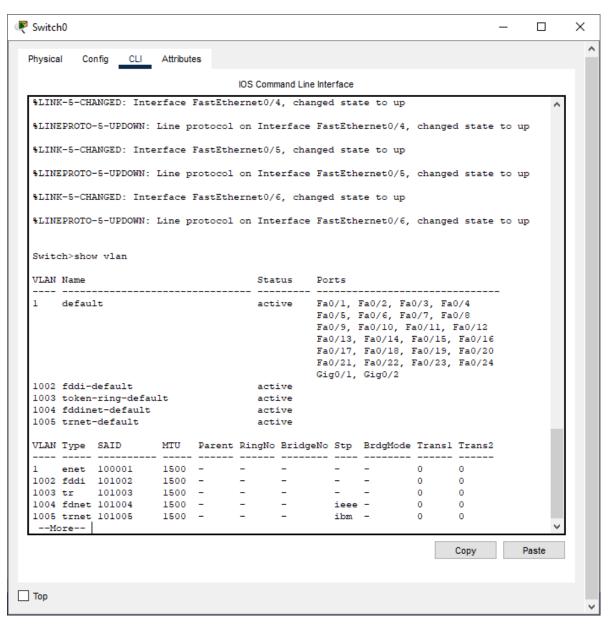


Switch0





Entramos al CLI de Switch y realizamos las siguientes acciones:



Name	Status	Ports
l 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
		Gig0/1, Gig0/2
fddi-default	active	
token-ring-default	active	
fddinet-default	active	
trnet-default	active	
11 11 11 11 11 11 11 11 11 11 11 11 11	default default fddi-default token-ring-default fddinet-default	Name Status default active fddi-default active token-ring-default active fddinet-default active

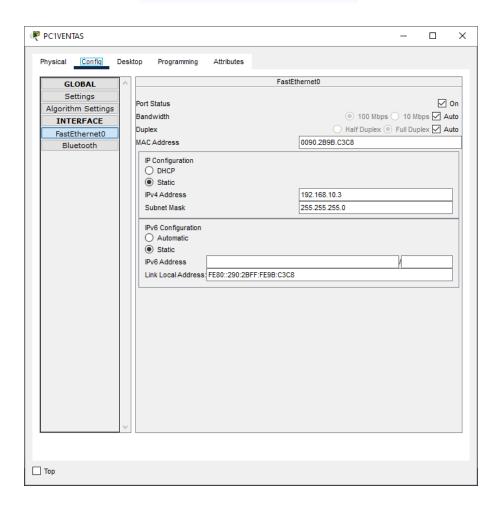
```
Switch>enable
Switch#config t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 10
Switch(config-vlan)#name ventas
Switch(config-vlan)#exit
Switch(config-vlan)#exit
Switch(config-vlan)#name ingenierias
Switch(config-vlan)#exit
Switch(config-vlan)#exit
Switch(config-vlan)#exit
Switch(config-vlan)#name dmz
Switch(config-vlan)#exit
Switch(config-vlan)#exit
```

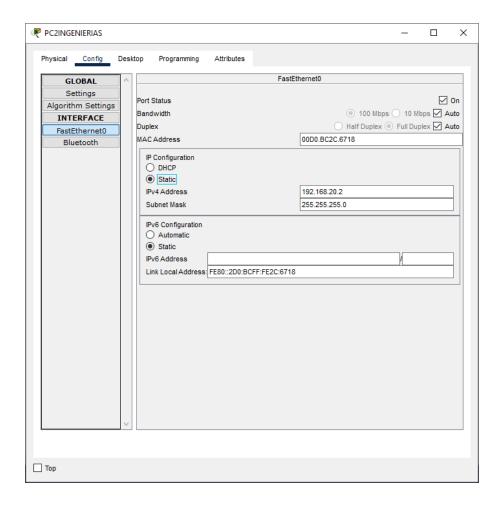
```
Switch#show vlan brief
VLAN Name
                                     active Fa0/1, Fa0/2, Fa0/3, Fa0/4
1 default
                                               Fa0/5, Fa0/6, Fa0/7, Fa0/8
                                                Fa0/9, Fa0/10, Fa0/11, Fa0/12
                                                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
10 ventas
20 ingenierias
                                      active
                                     active
30 dmz
                                     active
1002 fddi-default
                                     active
1003 token-ring-default
                                     active
1004 fddinet-default
                                      active
1005 trnet-default
                                     active
```

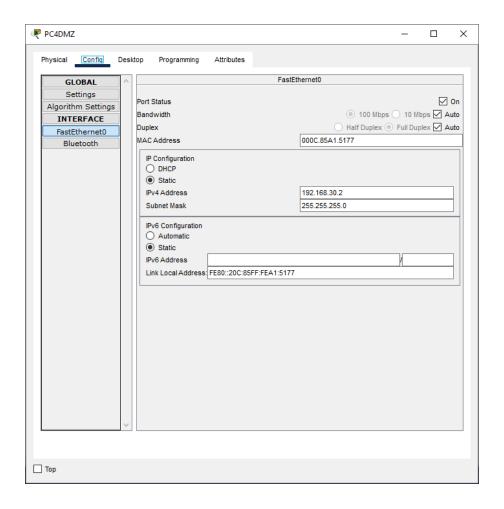
```
Switch#config t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface range f0/1 - f0/2
Switch(config-if-range)#switchport mode access
Switch(config-if-range) #switchport access vlan 10
Switch(config-if-range)#exit
Switch(config)#interface range f0/3 - f0/4
Switch(config-if-range) #switchport mode access
Switch(config-if-range) #switchport access vlan 20
Switch(config-if-range)#exit
Switch(config) #interface range f0/5 - f0/6
Switch(config-if-range) #switchport mode access
Switch(config-if-range) #switchport access vlan 30
Switch(config-if-range) #exit
Switch (config) #exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console
show vlan brief
VLAN Name
                                  Status Ports
____ ______
                                   active Fa0/7, Fa0/8, Fa0/9, Fa0/10
l default
                                            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
10 ventas
                                  active Fa0/1, Fa0/2
20 ingenierias
                                  active Fa0/3, Fa0/4
                                            Fa0/5, Fa0/6
30
    dmz
                                   active
1002 fddi-default
                                   active
1003 token-ring-default
1004 fddinet-default
                                   active
1005 trnet-default
                                   active
Switch#
```

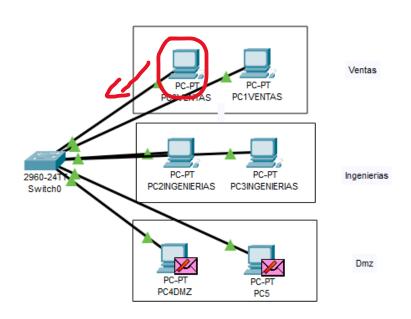
PC0VENTAS: 192.168.10.2 PC1VENTAS: 192.168.10.3 PC2INGENIERIAS: 192.168.20.2 PC3INGENIERIAS: 192.168.20.3

PC4DMZ: 192.168.30.2 PC5DMZ: 192.168.30.3



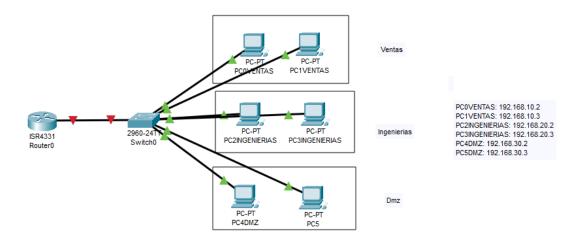






PC0VENTAS: 192.168.10.2 PC1VENTAS: 192.168.10.3 PC2INGENIERIAS: 192.168.20.2 PC3INGENIERIAS: 192.168.20.3 PC4DMZ: 192.168.30.2 PC5DMZ: 192.168.30.3





Volvemos al CLI del Switch

```
Switch>enable
Switch#config t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface f0/24
Switch(config-if)#switchport mode trunk
Switch(config-if)#switchport trunk allowed vlan 10,20,30
Switch(config-if)#exit
```

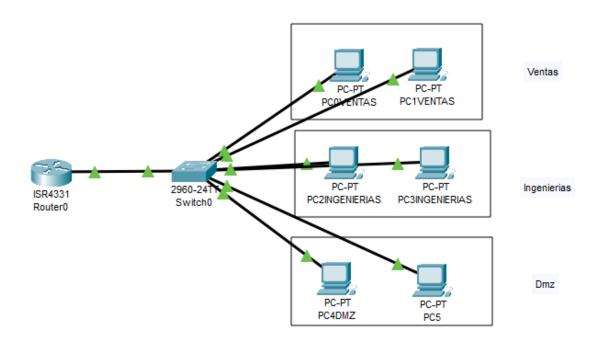
Ahora vamos al CLI del Router

```
Router>enable
Router#confifg t
% Invalid input detected at '^' marker.
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #interface GigabitEthernet0/0/0.10
Router(config-subif) #encapsulation dot1q 10
Router(config-subif) #ip address 192.168.10.1 255.255.255.0
Router(config-subif) #exit
Router(config)#interface GigabitEthernet0/0/0.20
Router(config-subif) #encapsulation dot1q 20
Router(config-subif) #ip address 192.168.20.1 255.255.255.0
Router(config-subif) #exit
Router(config) #interface GigabitEthernet0/0/0.30
Router(config-subif) #encapsulation dot1q 30
Router(config-subif)#ip address 192.168.30.1 255.255.255.0
Router(config-subif)#exit
Router(config)#
```

```
Router(config-subif) #exit
Router(config) #interface Gi
Router(config) #interface GigabitEthernet0/0/0
Router(config-if) #no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/0, changed state to up
%LINK-5-CHANGED: Interface GigabitEthernet0/0/0.10, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/0.10, changed state to
%LINK-5-CHANGED: Interface GigabitEthernet0/0/0.20, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/0.20, changed state to
up
%LINK-5-CHANGED: Interface GigabitEthernet0/0/0.30, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/0.30, changed state to
up
Router(config-if)#
```

```
Router(config-if) #exit
Router(config) #end
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#write memory
Building configuration...
[OK]
Router#
```



Se colocan las direcciones Gateway a los computadores para completar la conexión.