

```
Switch1
Physical Config CLI Attributes
IOS Comm

Switch(vlan)#vlan 10 name VLAN10
VLAN 10 modified:
  Name: VLAN10
Switch(vlan)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to down
Switch(vlan)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up
vlan 20 name VLAN20
VLAN 20 modified:
  Name: VLAN20
Switch(vlan)#vlan 30 name VLAN30
VLAN 30 modified:
  Name: VLAN30
Switch(vlan)#
Switch(vlan)#exit
APPLY completed.
Exiting....
Switch#configure terminal
```

Creamos y nombramos las vlan que usaremos

```
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface FastEthernet0/1
Switch(config-if)#
Switch(config-if)#switchport access vlan 10
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/6
Switch(config-if)#
Switch(config-if)#
Switch(config-if)#switchport access vlan 10
Switch(config-if)#
Switch(config-if)#switchport access vlan 20
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/11
Switch(config-if)#
Switch(config-if)#
Switch(config-if)#switchport access vlan 10
Switch(config-if)#
Switch(config-if)#switchport access vlan 20
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/1
Switch(config-if)#
Switch(config-if)#switchport access vlan 20
Switch(config-if)#
Switch(config-if)#switchport access vlan 30
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface GigabitEthernet0/1
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface GigabitEthernet0/2
Switch(config-if)#
Switch(config-if)#switchport mode trunk

Switch(config-if)#
%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

Switch(config-if)#
Switch(config-if)#switchport trunk allowed vlan remove 1
Switch(config-if)#
Switch(config-if)#
Switch(config-if)#switchport trunk allowed vlan add 1
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface GigabitEthernet0/2
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/1
Switch(config-if)#
Switch(config-if)#switchport mode trunk
```

En las FastEthernet le vamos asinar las vlan que serán usadas

vamos a poner modo trunkal las gigabitEthernet la 0/1, la 0/2 y fa 0/1

```
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/1
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface GigabitEthernet0/2
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface GigabitEthernet0/1
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface GigabitEthernet0/2
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/1
Switch(config-if)#exit
Switch(config)#interface fa0/1
Switch(config-if)#switchport mode trunk
Switch(config-if)#exit
Switch(config)#no service dhcp
Switch(config)#reservice dhcp
Switch(config)#
Switch(config)#interface FastEthernet0/1
```

```
Router(config-if)#exit
Router(config)#interface g0/0.10
Router(config-subif)#
%LINK-6-CHANGED: Interface GigabitEthernet0/0.10, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0.10, changed state to up
Router(config-subif)#encapsulation dot1Q 10
Router(config-subif)#ip address 172.17.48.1 255.255.255.0
Router(config-subif)#exit
Router(config)#interface g0/0.20
Router(config-subif)#
%LINK-6-CHANGED: Interface GigabitEthernet0/0.20, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0.20, changed state to up
Router(config-subif)#encapsulation dot1Q 20
Router(config-subif)#ip address 172.17.49.1 255.255.255.0
Router(config-subif)#exit
Router(config)#interface g0/0.30
Router(config-subif)#
%LINK-6-CHANGED: Interface GigabitEthernet0/0.30, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0.30, changed state to up
Router(config-subif)#encapsulation dot1Q 30
Router(config-subif)#
```

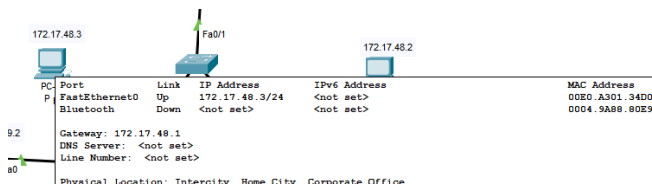
vamos a encapsular a cada vlan con sus respectivas ip y mascaras

```
Router(config-subif)#exit
Router(config)#ip dhcp excluded-address 172.17.48.21 172.17.48.21
Router(config)#ip dhcp excluded-address 172.17.48.24 172.17.48.24
Router(config)#ip dhcp pool VLAN10
Router(dhcp-config)#network 172.17.48.0 255.255.255.0
Router(dhcp-config)#
Router(dhcp-config)#default-router 172.17.48.1
Router(dhcp-config)#exit
Router(config)#
Router(config)#ip dhcp excluded-address 172.17.49.26 172.17.49.26
Router(config)#ip dhcp excluded-address 172.17.49.22 172.17.49.22
Router(config)#ip dhcp pool VLAN20
Router(dhcp-config)#network 172.17.49.0 255.255.255.0
Router(dhcp-config)#DHCPD-4-PING_CONFLICT: DHCP address conflict: server pinged 172.17.48.1
Router(dhcp-config)#DHCPD-4-PING_CONFLICT: DHCP address conflict: server pinged 172.17.49.1

Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#conf t
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```
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip dhcp pool VLAN20
Router(dhcp-config)#network 172.17.49.0 255.255.255.0
Router(dhcp-config)#default-router 172.17.49.1
Router(dhcp-config)#exit
Router(config)#ip dhcp excluded-address 172.17.50.23 172.17.50.23
Router(config)#
Router(config)#
Router(config)#ip dhcp excluded-address 172.17.50.26 172.17.50.26
Router(config)#ip dhcp pool VLAN30
Router(dhcp-config)#network 172.17.50.0 255.255.255.0
Router(dhcp-config)#default-router 172.17.50.1
Router(dhcp-config)#exit
Router(config)#do wr
Building configuration...
[OK]
Router(config)#ex
Router(config)#
% Invalid input detected at '^' marker.
Router(config)#ex
Router#
%SYS-5-CONFIG_I: Configured from console by console
wr
Building configuration...
[OK]
Router#
```



aquí se puede ver quennos da la ip asignada en las vlan 10,20 y 30

