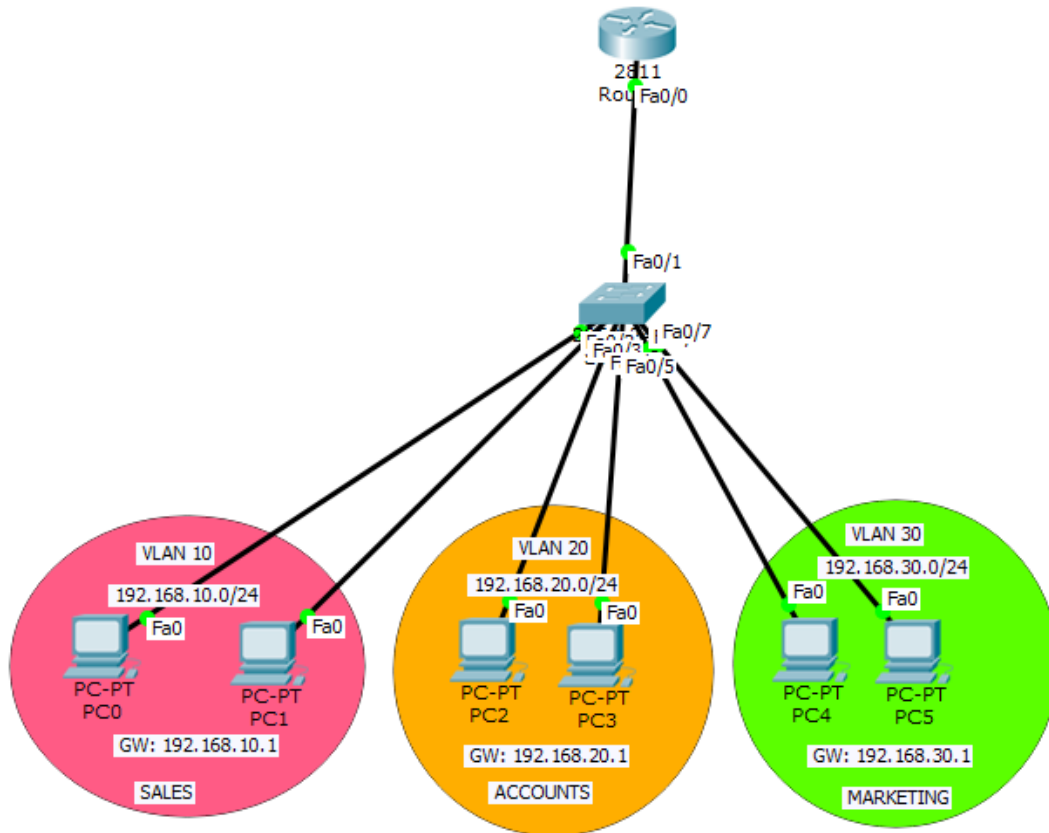# INTER VLAN Configuration

Switch(config)# vlan 10
Switch(config-vlan)# name SALES

Switch(config)# vlan 20
Switch(config-vlan)# name ACCOUNTS

Switch(config)# vlan 30
Switch(config-vlan)# name MARKETING

Switch(config)# interface range fastEthernet 0/2-3

Switch(config-if-range)# switchport mode access

Switch(config-if-range)# switchport access vlan 10

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Switch(config)# interface range fastEthernet 0/4-5

Switch(config-if-range)# switchport mode access

Switch(config-if-range)# switchport access vlan 20


Switch(config)# interface range fastEthernet 0/6-7

Switch(config-if-range)# switchport mode access

Switch(config-if-range)# switchport access vlan 30


Switch(config)# interface fastEthernet 0/1

Switch(config-if)# switchport mode trunk

Switch(config-if)# switchport trunk allowed vlan 10,20,30



Router(config)# interface fastEthernet 0/0

Router(config-if)# no shutdown


Router(config)# interface fastEthernet 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)# no shutdown
```

Router(config)# interface fastEthernet 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)# no shutdown

Router(config)# interface fastEthernet 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)# no shutdown

Router# show ip interface brief

Interface	IP-Address	OK?	Method	Status	Protocol
FastEthernet0/0	unassigned	YES	unset	up	up
FastEthernet0/0.10	192.168.10.1	YES	manual	up	up
FastEthernet0/0.20	192.168.20.1	YES	manual	up	up
FastEthernet0/0.30	192.168.30.1	YES	manual	up	up