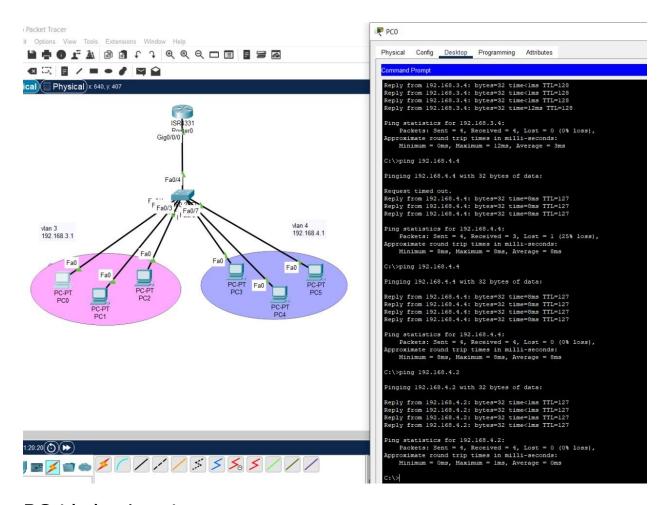
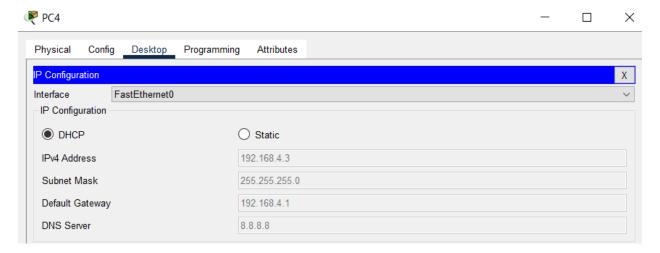
Router_on_stick with DHCP

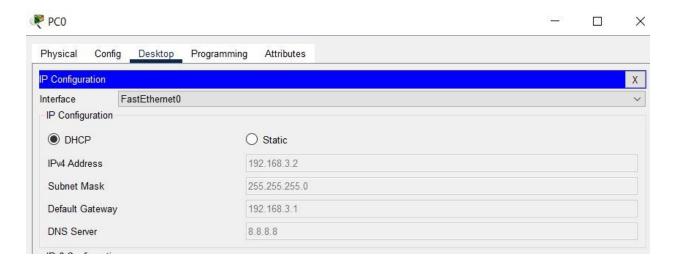
(router as DHCP server)



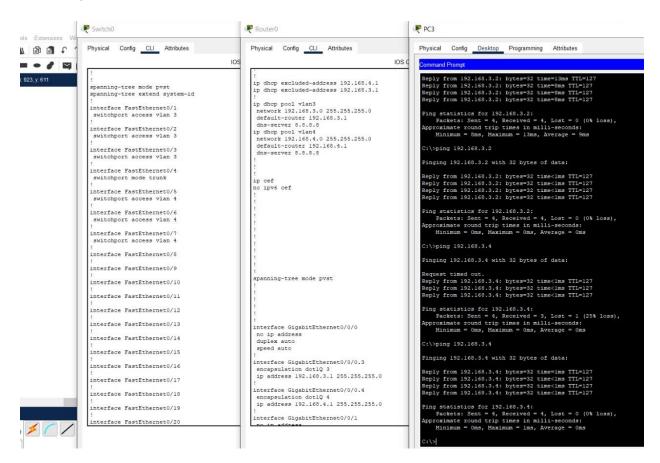
PC4 is in vlan 4



PC0 is in vlan 3



Configuration on switch and router and pinging PC3 (VLAN4) with VLAN 3



VLANS احنا قسمنا ال

Broadcast علشان نقلل ال

inter_vlan_routing ليه بستخدم ال

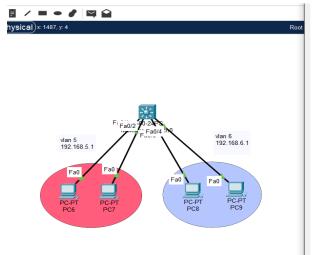
vlans علشان نسمح لل

تتكلم مع بعض في حدود القواعد اللي حاطينها

multilayer switch واستخدم , router هل ممكن اسنغني عن ال

- بغنيك عن الراوتر LAN: MLS داخل الـ
- .Firewall غالبًا هتحتاج راوتر أو : الإنترنت / WAN خروج لل

Multilayer Switch with DHCP

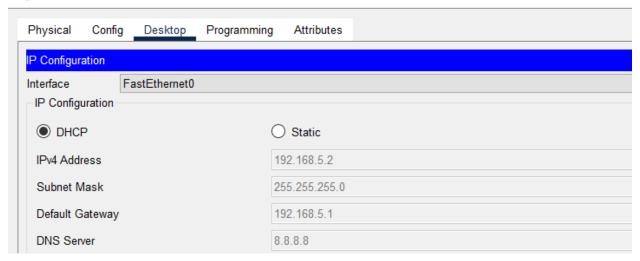


```
Switch (config) #hostname router
router (config) #ip routing
router (config) #ip routing
router (config) #in vlans
router (config) #in vlans
router (config) #in vlans
router (config) #in vlans
router (config-if) #in therface Vlans, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlans, changed state to up
router (config-if) #ip add 192.168.5.1 255.255.255.0
router (config-if) #exit
router (config-if) #exit
router (config) #in vlan6
router (config) #in vlan6
router (config) #in vlan6
router (config-if) #ip add 192.168.6.1 255.255.255.0
router (config-if) #ip add 192.168.5.0 255.255.255.0
router (config-if) #ip there is the router (config-if) #ip the router (config-if) #ip
```

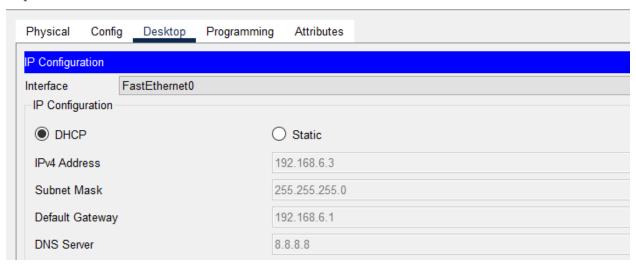
VLAN 5 DHCP

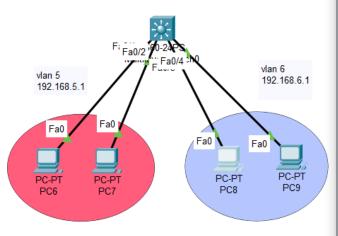




VLAN 6 DHCP







```
₹ PC8
            Config Desktop Programming
 Physical
                                              Attributes
  Command Prompt
  Cisco Packet Tracer PC Command Line 1.0
  C:\>ping 192.168.5.3
  Pinging 192.168.5.3 with 32 bytes of data:
  Request timed out.
  Reply from 192.168.5.3: bytes=32 time<1ms TTL=127
  Reply from 192.168.5.3: bytes=32 time<1ms TTL=127
  Reply from 192.168.5.3: bytes=32 time=11ms TTL=127
  Ping statistics for 192.168.5.3:
  Packets: Sent = 4, Received = 3, Lost = 1 (25% loss), Approximate round trip times in milli-seconds:
       Minimum = 0ms, Maximum = 11ms, Average = 3ms
  C:\>ping 192.168.5.3
  Pinging 192.168.5.3 with 32 bytes of data:
  Reply from 192.168.5.3: bytes=32 time<1ms TTL=127 Reply from 192.168.5.3: bytes=32 time<1ms TTL=127
  Reply from 192.168.5.3: bytes=32 time<1ms TTL=127
  Reply from 192.168.5.3: bytes=32 time<1ms TTL=127
  Ping statistics for 192.168.5.3:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:
       Minimum = Oms, Maximum = Oms, Average = Oms
   C:\>
```