Exp-10: To construct VLAN and the PCis communicate along a VLAN and the surted of the well at the left when Aim: Constant a VLAN and enable communication between PCs among a VLAY be admin MAJV sell (2) show box 12 to certation). Si sopretu ent tool ? Topology: alt a smelle print Routen IV. Inst alt 1 192. 168.1.2 192.168.1.3 192.168.1.3 192.168.2.3 between VLAN countre Cornect 4 PCs to the switch and a nouter as well to the ewitch. Assign the IP addresses to the PCs and set default gateray I vit koto neutraluspisme # (Jellus polinia) returnis 0.335.385.385.335 1 5.8315P1 seekhoop # (Jellus polinia) returnis Perocedura:

1. Choose the 1861 grouter & cornect to a switch and 4 PC's
var ethernet interface and fastathernet interface gregnestively. Perocedura: 2. Set the IPaddresses of the PCs and configure the grouter with IP address 192.168.1.1 Router + config torniral a resider for estimate a ere and with MAJV. Router (config) # interface Fo 0/0 Router (config-if) ## ip address 192.168.1.1 255. 255. 255.6

Router (config - if) # no shut we to show the sound of the switch, go to config tab and select VLAN Database withourmes Oldere bus MAJV's towerson o mich

- 4. Set the VLAN number and VLAN name Select the interface. ie., fastethernet 5/1 and make it the tounk. VLAN townbeing allows switches trader forward brane from different VLAN over a single link called towns.
  - 5. This is done by adding an additional header information called tog to the ethernet frame.
  - 6. Look into the interfaces of the switches with 2 new VLAN systems

Config tob of nouter select VLAN DATABASE enter number and name of VLAN created

Router # config to de returne a long data

Router (conbig) # interface fast ethernet 0/0.1

Router (config - subil) # encapsulation dat la 2 provides thanks Router (config-sulify) # ip address 192168.2.1 255.255.255.0

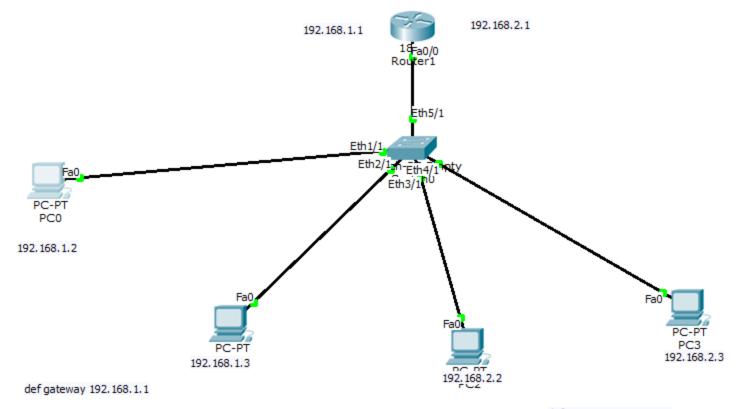
Router (config - subif) # no shut Rotter (conbig-sulif) # exit Router Ceorfig # exit

Observation:

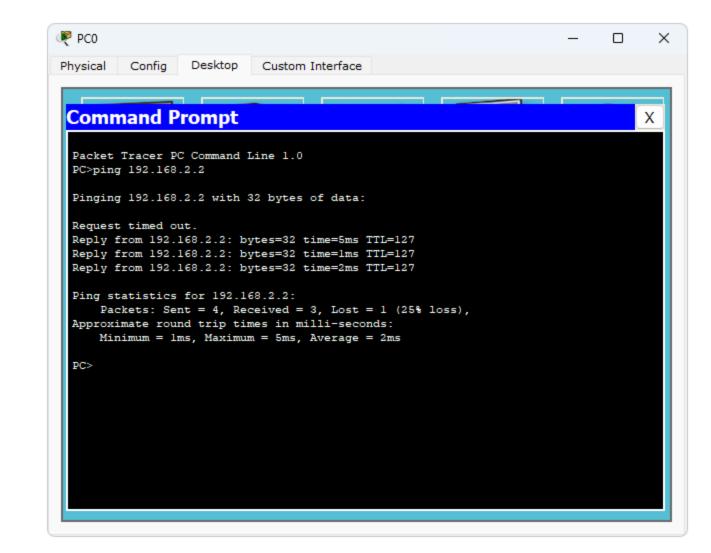
A VLAN segments a network into virtual geroups. It enhances sewrity and reduces broadcast torablic. On pinging over the NLAN the PCs one able to communicate I have the

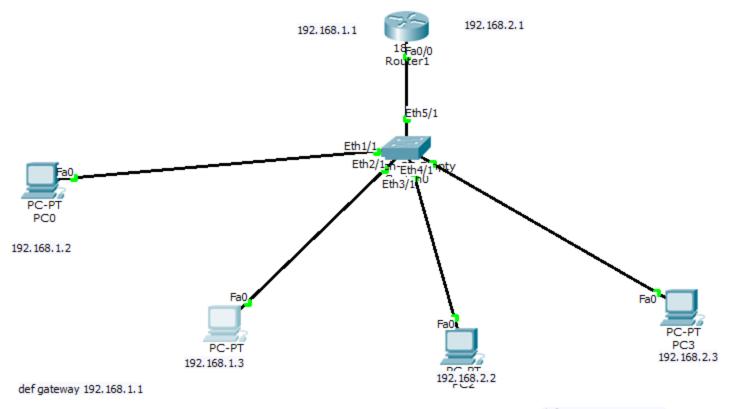
Charles the 1861 marter &

Pouter (so for) " (see how to extract to see of see 1.1.801. SPI seechbo que II (firpilmo) retural.



def gateway 192, 168, 2, 1





def gateway 192.168.2.1

