```
EXP NO: 8 Vistual LAN
            sufficient access when
Aim:
    simulate Vistual LAN configuration
using cisco Packet Traces simulation.
Procedure: Early 27000 Hogeliffing 11
 1. create the network using i switch &
 4 pcs as shown in the figure.
  2. Check the network by sending packets
(Optional)
3. Assign IP address to the PCs
   PCO - 10.0.0.1
  PCI - 10.0.0.2
 PC2 - 10.0.0.3
 PC3 - 10.0.0.4
 4. Right click on suitch sp then on clI
 sun the following command
  > enable
 # cong t
  # vlan 2
 # name office
 # exit
 # vlan 3
 # name home
 # exit
 # interface fast-Ethornel ol.
 # suntchport access vlan 2
  # exit
```

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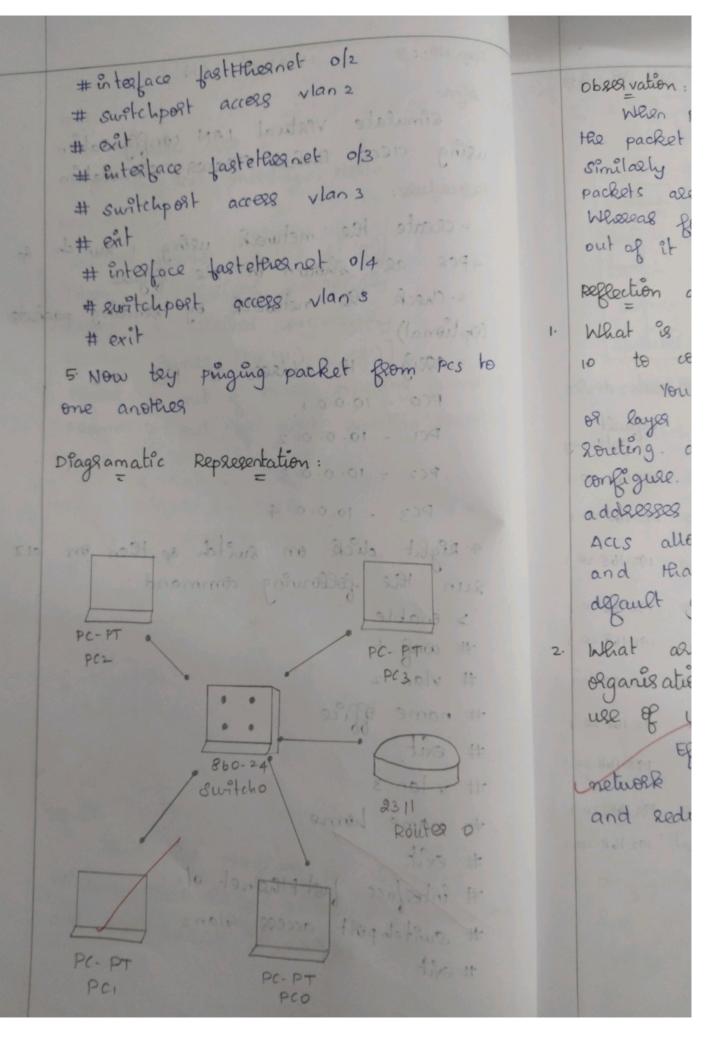
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observation:

When packet transfered from PCO to PCI the packet are successfully transferred. Similarly for PCS within Same vlan packets are transferred successfully. Whoseas for PCS can't transfer packets out of it vian.

reflection questions:

What is needed to allow hosts on VLAN 10 to communicate to host on VLAN 99?

You need a layers 3 device (Routed of layers 3 suitch) to enable inter-VIAN Routing and configure VIAN Routing and configure. VIAN interfaces, with IP addresses for both VIAN's. Ensure that Acis allow traffic between the VIAN's and that boots are set the appropriate default gateways.

2. What are some primary benefits that an organisation can receive through effective use of LANS?

return segmentation en hancing security and reducing broadcast traffic.

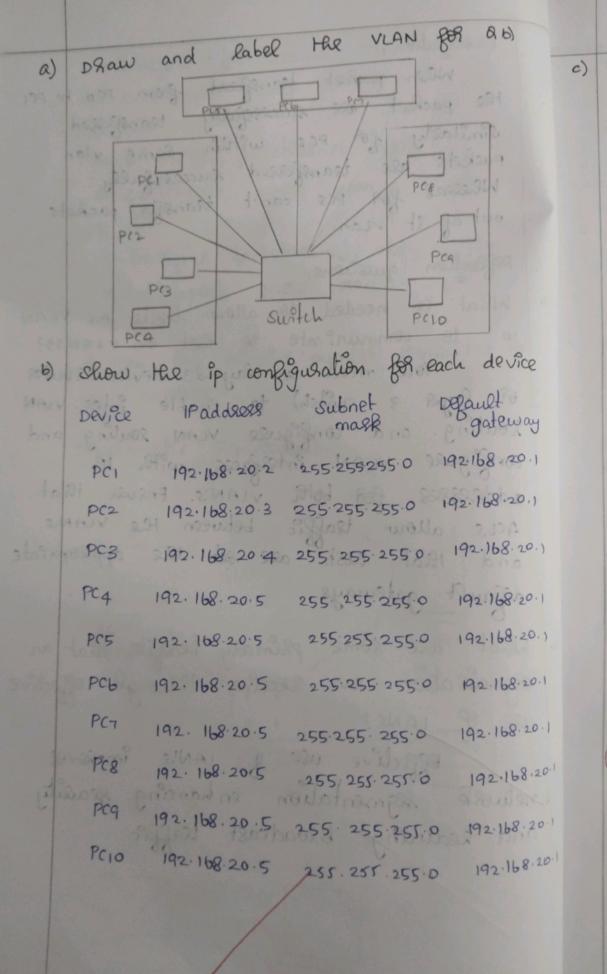
from Pcs to

1/4 00 003

0/3

PC3 c .

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86) AN POR 8 each de vice Default gateway 192.168.20.1 192.168.20.1 192.168.20.1 192.168.20.1 192.168.20.1

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Result:

Thus, the simulation of vistual LAN configuration using cisco packet traces has been performed and the olp is verified.

whitch:

suitch > enable

suitch (config) # VLAN 10

suitch (config) # VLAN 10

suitch (config - VLAN) # name Robotics

switch (config - VLAN) # exit

suitch (config) # intexface Range if ol-10

Suitch (config) # intexface Range if ol-10

Suitch (config - if- Range) # switchport mode access

suitch (config - if- Range) # switchport access

vlan 10

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Then chase the will do

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