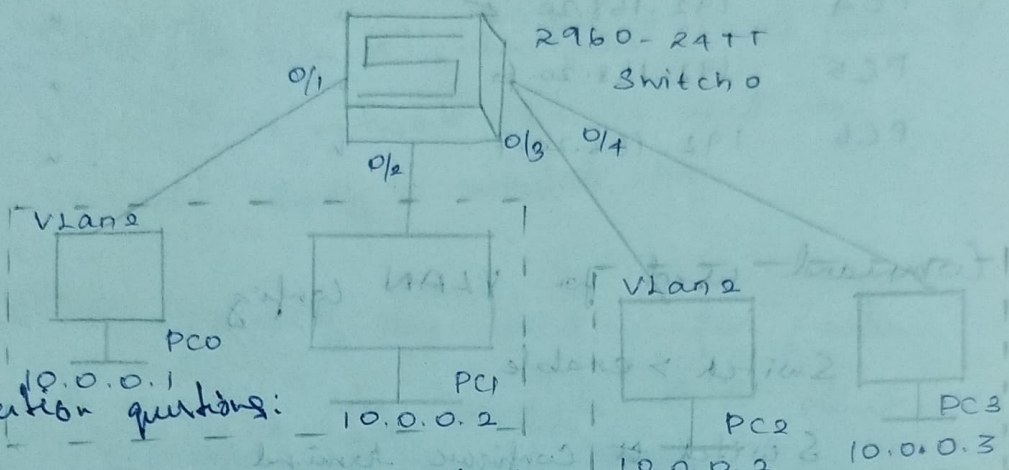


Exp: 8a

Aim:

Simulate Virtual LAN Configuration using Cisco Packet Tracer simulation

Packet Tracer - Configure VLAN's and Linking



Reflection questions:

1) What is needed to allow host on WLAN 10 to communicate to hosts on VLAN 90?

You need to layer device (router or layer 3 switch) to enable inter-VLAN routing and configure VLAN interfaces with IP addresses for both VLAN's. Ensure that ACLs allow traffic between the VLAN's and that hosts are set the appropriate default gateways.

2) What are some primary benefits that an organization can achieve through effective use of VLAN's?

Effective use of VLAN's improve network segmentation enhancing security and reducing broadcast traffic.



Show the IP configuration for each device

Device	IP address	Subnet mask	Default gateway
PC1	192.168.20.2	255.255.255.0	192.168.20.1
PC2	192.168.20.3	u	u
PC3	192.168.20.4	u	u
PC4	192.168.20.5	u	u
PC5	192.168.20.6	u	u
PC6	192.168.20.7	u	u

Command used for VLAN config

Switch > enable

Switch # configure terminal

Switch (config) # VLAN 10

Switch (config-VLAN) # name Robotics

Switch (config-VLAN) # exit

Switch (config) # interface range ip 0/1 - 10

Switch (config-if-range) # switch ~~port~~   
 mode access

Switch (config-if-range) # switch port

access VLAN 10

Switch (config-if-range) # exit

Result:

Thus, the Simulation of Virtual LAN Configuration using CISCO packet tracer has been performed.

20/11