EXPERIMENT NO-06

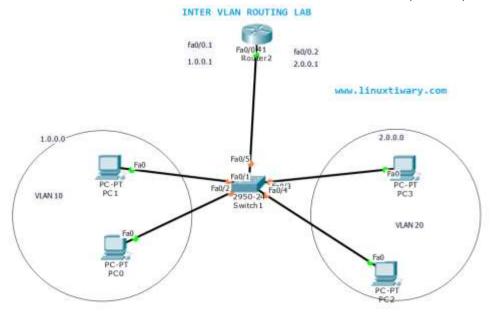
AIM: Configuration of VLAN connection

OBJECTIVE: To demonstrate the Configuration of Cisco Router 2811.

ALGORITHM:

- 1. Start
- 2. Setup the Topology and initialize devices
- 3. Configure Devices and router and verify connectivity
- 4. Display Device information
- 5. End

DESCRIPTION AND EXECUTION: Resources: 1 Switch, 4 PCs, 1 Router.



Router no.:2811

Switch no: 2950 -24

Ip address of router:192.168.10.1

Subnet mask: 255.255.255.0

The router must be enabled & label should be given .

Pc on the left of the switch:

Ip Address - 192.168.10.2

- 192.168.10.3

Subnet mask: 255.255.255.0

Default gateway: 192.168.10.1

Pc on the right of the switch:

Ip Address - 192.168.20.2

- 192.168.20.3

Subnet mask: 255.255.255.0

Default gateway: 192.168.20.1

Switch: goto

---> config ---> VLAN database

VLAN number: 20

VLAN name: lab7

Under interface - FA 0/1,0/2 -----

For the PC's on the left connected to

FA 0/2 and FA 0/3 – Remain

VLAN from 1 default & FA 0/4 & FA 0/5 — change to 20

GO to the router:

--> switching ---> VLAN database

ADD VLAN number 20

VLAN name lab7

go to CLI

Steps:

Type exit —-> router(VLAN) #exit

Router #config t

Router (config) #int f 0/0.1

Encapsulation dot 1q 20

Router (config-subif) #

lp address 192.168.20.1 255.255.255.0

change the connection of the switch to the router interface i.e FA 0/1 from access to trunk is the dropbox

main step

Change 2 rightmost FA 0/4 & FA 0/5 connections of pc to VLAN 20 lab7 and the 2 leftmost FA 0/2 & FA 0/3 connections should remain default 1 in the interface of the switch.

ROUTER:

Name	
Vlan1	\$
IP address	
192.168.20.1	
Subnet mask	
255.255.255.0	
MAC Address	
000d.bd81.d345	



SWITCH:



PC -0



PC- 1:

Name	
FastEthemet0	\$
IP address	
192.168.10.3	
Subnet mask	
255.255.255.0	
MAC Address	
0001.c925.9683	

PC - 2:



PC - 3:



COMMAND LINE INTERFACE: