JITLE? Connection between two separate channel (wing 2960 switch and a single method router).

To connect two separate channels (VIANS) using a cisco 2960 switch and a single router in cisco packet treacer, you've essentially implementing Router-on-a-stick

objective:

connect two VIAN's (say VIANIO and VIANIO) using a singular router and one switch (2960) so that divices in both VIAN's can communicate.

Devices Required:

- 1) 1 router (eg. 1941)
- 2) 2 scoitch (eg. 2960)
- 3) At least 2Pc's (one for each ULAN)
- 4) copper etraight through eables

Step! 1

CONNECTION OF DEVICES

In the experiment I have connected the devices as following:

- (1) 1941 router connected with two 2960 switches using copper straight through oables in Chigabit Ethernet 0/0.
 - & gigabl'+ Ethernet Oll parts.
- (2) I have connected 3PCs with each switch using copper straight through cables. It means each channel has 3PCs in 1't connected via 2960 switch.

Step-2

CONFIGURE INTERPACES ON ROUTER

- open or elick on the router
- on Then select the CLI tab and follow the steps ->
 - i) FIUNCE CUICK enter / puress enter key two times.

in) men write me following instructions:

Router Lenable

Router # configure terminal

Enter configuration commands, or per the . End with cnn/z.

Router (contig) # interface golo.

Router (config-if) # ip address 192.188.1.1 255.255.255.0

Router (consignif) # no shutdown

Router (config-if) #

% wink - 5 - changed : INTERFACE chigabit Ethernet old , changed grate to up

% LINEPROTO-5-UPDOWN: Line protocol on Interface.

Gigabit Ethernet 010, changed state to up

pxit.

Router (consig) # interface goll

Router (config-if) # ipaddress 192.168.2.1 255.255.255.0

Router (config-if) # no strutdown

ROUTEN (config - if) H

% LINK- 5- CHANGED : Interface origabit Elhernet 0/1, changed

state to up

% LINEPROTO-5-UPDOCON: Line protocol on Interface

Origabit Ethernet 0/1, changed state to up

exit.

Step :3

SET IP address on PCs

a) on (VIANIO)

-) set IP for 3 pcs like 192.168.1.2, 192.16.8; 1.3,

and 192.168.1.4

→ Subnet mask will be the same > 255.255.255.0

Default gateway for this network will be 192.168.1.1

by on (VLAN20)

+ Set IP for Bpes like 192.168.2.2,192.168.2.3,192.168.2.4

→ Subnet mook will be the same -> 255.255.255.0

of Default gateway for this network will be: 192.168.2.1

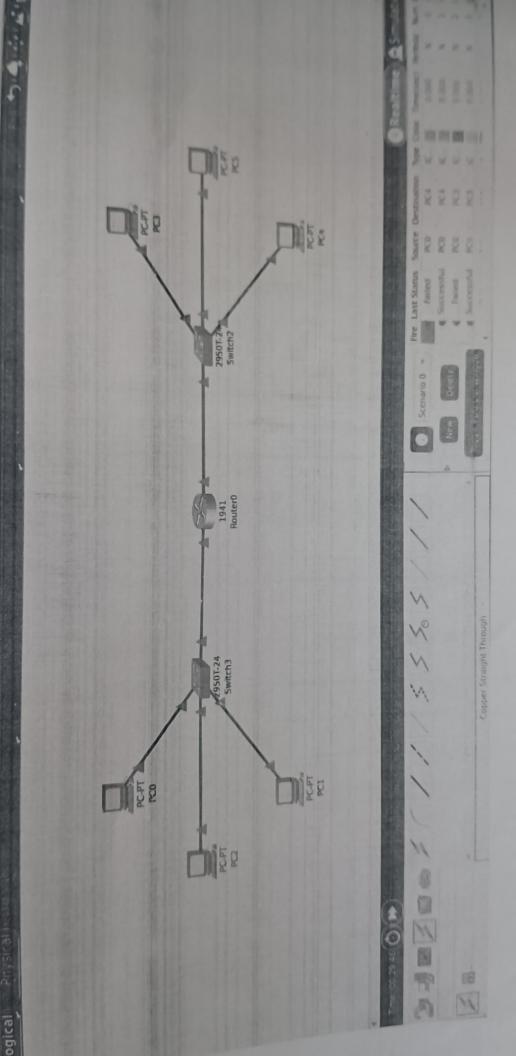
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TEST COMNECTION BY SENDING MESSACHES

- If looks like a closed envelope. This is called "pold simple PDU". (Bosic Ping).
 - 2) Now after elicking wick on the source PC.
 - 3) NOW often that cuick the dutination PC.
 - a) Now view the roult.

The test done in the eisco parket tracer application & the printout of the entire test is shown in the next page.

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