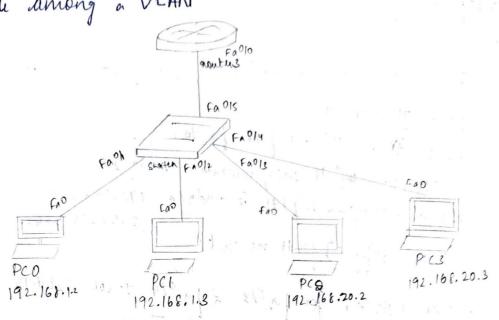
Aim: To construct a VLAN and make the pe's communi -cate among a VLAN



Procedure;

i) Create the topology as 2) configure ip addren for pc's as

192. 168.1.3, 192,168.20,2,192.168.20.3.

3) Configure the 1P address for following commands grouter) unable

noute # config t nouter (config) # Enterface fa 010. noute (config) # 1p address 192.168.1.) 255.255.256.0.

noutre Cronjig-41 # emit 4) on the sheiten go to VLAN database & create/add new VLAN database.

5) NOW, under fact Ethernet 0/5 & make it tryunk, in VLAN everything need to be relected.

- 6) Now, in norther, reliet VLAN database Enter the no & name of entered before. Also, in meiter for interface 0/3 & 0/4., VLAN should be selected as interface 0/3 & 0/4., VLAN should be selected as
- nouter # config t interface fa 0/0.1

 nouter (config) # interface fa 0/0.1

 nouter (config=suf) # encapsulation dot 19, 2

 nouter (config=sub y) # is address 192.168.20.1

 nouter (config=sub y) # no shut
- 8) In the switch, for fa 0/3 & fa 0/4 select VLAN & no as no given for VLAN balabase.

 Now piny from Pco to Pc3,

 Pc> piny 192.168.20.2

pinging 192.166.20.2 heith 32 bytes of data

pinging 192.166.20.2 heith 32 bytes of data

reply from 192.166.20.2 bytes = 32 time 24ms TTL=127

reply from 192.166.20.2 bytes = 32 time 2 ms TTL=127

reply from 192.166.20.2 bytes = 32 time 3ms TTL=127

reply from 192.166.20.2 bytes = 32 time 3ms TTL=127

reply from 192.166.20.2 bytes = 32 time 3 ms TTL=127

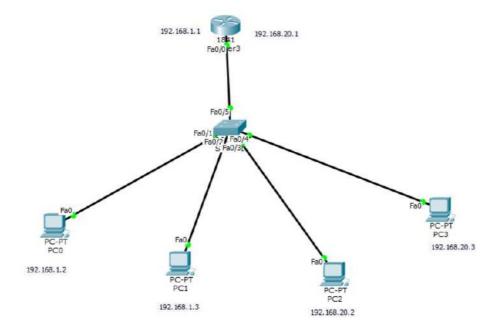
Ping statistics for 192.168.20.2/

packets: Sent . 4, gettened - 4, LOST = 0(0% was)

Approximate nound trip times in milli-seconds,

minimum. oms, maximum. 3 ms, Aug = 2 ms.

Topology:



Output:

```
Packet Tracer PC Command Line 1.0
PC>ping 192.168.20.2

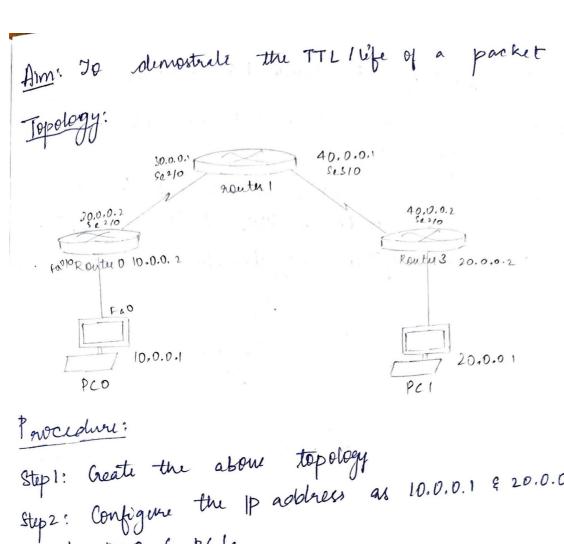
Pinging 192.168.20.2 with 32 bytes of data:

Request timed out.
Reply from 192.168.20.2: bytes=32 time=4ms TTL=127
Reply from 192.168.20.2: bytes=32 time=0ms TTL=127
Reply from 192.168.20.2: bytes=32 time=3ms TTL=127

Ping statistics for 192.168.20.2:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 4ms, Average = 2ms

PC>
```



Step 1: Greate the above topology

Step 2: Configure the IP address as 10.0.0.1 & 20.0.0.1

for PCO & PCI.

Step 2: Configure the IP address for houter & state /

default nonting

Step 4: Router 0:

noute # config t

noute Config # interface for 10.0.0.2 255.0.0.0

nouter (copig - y) # IP address 10.0.0.2 255.0.0.0

nontre Cronfig # interface for 0/0
nontre (copig - y) # 1P address 10.0.0.2 255.0.0.0
nontre (config - y) # no shut
noutre (config - y) # interface se 2/0
noutre (config - y) # interface se 2/0
noutre (config - y) # ip address 30,0.0.2 255.0.0.0
noutre (config - y) # no shut
noutre (config - y) # no shut
noutre (config - y) # enit
noutre (config) # 1P noutr 0.0.0.0 0.0.0.0 30.0.0.1
noutre (config) # init.

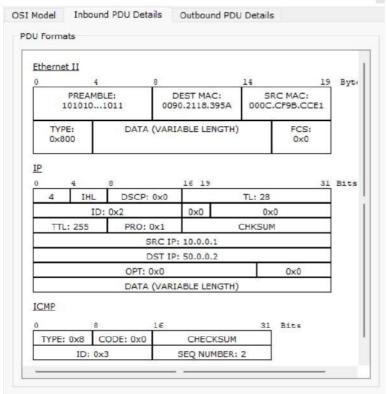
Simalary, configure for nouter 1 a nonter 2. nontu

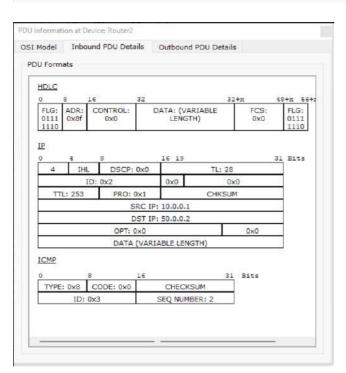
Step 4: In simulation mode, send a simple PDU from one pe to another.

Step 5: Click on PDV during every transfer to see the Insound & outbound PDC details, use capture

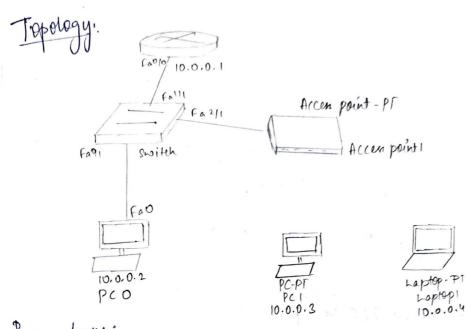
button to capture many transfer.

Model OU Forma		d PDU Deta	ils	Outboun	d PDU	Details			
Etherne	t II							10000	
2	PREAMB 101010		DEST MAC: 000B.BE3C.E663			SRC MAC: 0060.3E31.6C0A			Byt
TYPE: 0x800		DATA	ABLE LENGTH)			FCS: 0x0	1		
<u>IP</u>	4	8		16 19				31	Bits
4	IHL		DSCP: 0x0		TL: 28			_	
TTI	: 128	0x1 PRO: 0x1		0x0 0x				\dashv	
111	. 120			: 50.0.0.		IINSOF		\neg	
				: 10.0.0.					
		OPT: (0x0			
A.		DATA	(VARI	ABLE LEN	(GTH)				
ICMP									
0	8		16	16 31					
TYPE:	TYPE: 0x0 CODE: 0x		CHECKSUM						
	ID: 0x		SEQ NUMBER: 2						





Aim - DD renstruct a WLAN & make the modes comminitate whe lessly,



Procedure

Step1: Create the topology as given usone.

Sty 2: Configure PCO & nouter as normally done.

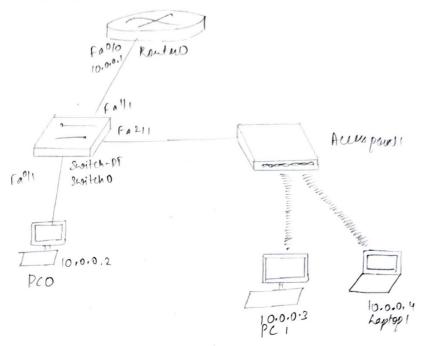
Configure the Access point 1, go to port 1 & gine SSID name (any name).

Stop4: Select WEP & give any 10 digit Hex key. (1234567890). Configure PCI & Coptop neith wirless standards.

Step 5: Switch of the device. Drag the isideting PT-HOST. NM-IAM to the component histed in LHS. Drag WMP300N wrills interface to empty port.

Step 6: In the config tab a new whiless interfered would have been added. Now configure SSIP, WEP, WEP key "Iparelebres & Gateway (as normally done) to device.

Final topology on schoen



Now ping from PCO-he PCI

PC > ping 10.0.0.3

pung 10.0.0.3 with 32 bytes of date:

Reply from 10.0.0.3: bytes=32 Time=47ms TTL=128

reply from 10.0.0.2: bytes=32 time=32m TTL=128

reply from 10.0.0.3: bytes=32 time=35mm TTL=128

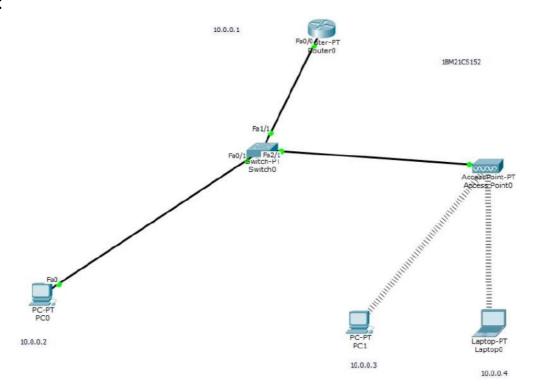
ping statistics from 10.0.0.2:

packeth: sunt=4, recieved=4, lost=0 (0×1011)

Approximete Hourd tup time in milli-seconds minimum = 3 ms numinum : 47 ms 1 Aug = 29 ms

ak/23

Topology:



Output:

