Aim: To construct a VLAN and make the PC's communicate

among a VLAN

Experiment - 9

Topology: Rou Fa0/0 192.168.1.1 192.168.20.1 Fa0/5 Fa0/1 Fa0/2 Fa0/4 Svy 122 NO Fa0 Fa0 Fa0

PC-PT

PC2

192.168.20.2

PC-PT

PC1

192.168.1.3

PC-PT

PC3

192.168.20.3

PC-PT

PC0

192.168.1.2

```
--- System Configuration Dialog ---
Continue with configuration dialog? [yes/no]: n
Press RETURN to get started!
Router>enable
Router#vlan database
% Warning: It is recommended to configure VLAN from config mode,
  as VLAN database mode is being deprecated. Please consult user
  documentation for configuring VTP/VLAN in config mode.
Router(vlan) #vlan 20 name NEWVLAN
VLAN 20 modified:
    Name: NEWVLAN
Router (vlan) #exit
APPLY completed.
Exiting....
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa0/5
%Invalid interface type and number
Router(config)#int fa0/0
Router(config-if) #ip address 192.168.1.1 255.255.255.0
Router(config-if) #no shut
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
exit
Router(config) #int fa 0/0.1
Router(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/0.1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.1, changed state to up
Router(config-subif) #encapsulation dot1g 20
Router(config-subif) #ip address 192.168.20.1 255.255.255.0
Router(config-subif) #no shut
Router(config-subif) #exit
Router (config) #
```

PC>

Physical Config Desktop Custom Interface

```
Command Prompt
PC>ping 192.168.20.2
Pinging 192.168.20.2 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.168.20.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
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=0ms TTL=127
Reply from 192.168.20.2: bytes=32 time=1ms TTL=127
Reply from 192.168.20.2: bytes=32 time=1ms 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 = 1ms, Average = 0ms
```



	Date: 10-8 23
Jul Jul	DENS ENAM DESCRIPTION IN
	dim: To create a VLAN using class C type
	addresses.
	MALVINE
10	Topology: I have of all returned in the
	The below returned for dot piles.
	emer love south 1841 Router and Sudalet
	Transchool the alon oreatsours
	192-168-11
	ARLEN AN IB
	witch (moly) story?
	Roster Control # 9 ross free la Oll
0.0	Router Confia- Rubil # enapsilation det
	1 C50 CDI SOURI COST (1-1)
1	Router (contra- habil) # / paddros 192 (552.)
192	
	192.168.1.3 192.168.20.2 192.168.20.3
	P. Lines T. (Dilanes) sietus ?
20 10 4 1	Procedure:
2 t Final	Create a topology of a 1841 oronter,
0 :	a swetch, and 4 PI-PC's.
0	Fil address is assigned to all the devices.
0	In wwitch, go to config tab and select
	VLAN Database some of Room to be
•	Ixise any VLAN number say 2 here & include
water	iany name. Miss Englassical amonto
•	Then add the beneat / tisusess
17.2 m	
T 57= 12 7	select the interface near the switch from

	to be an itales to laying
0	VLAN trunking allows sow the to forward
	frames from different VLAN's ortora usingle link called trunk.
100	usingle link called trunk.
•	This makes the switch understand
	NEWVLAN
8	Next the occuter is to senderstand NEWVIAN
•	config tab of orouter select VLAN
	database. Enter the inumber and name
	of the vlan oceated
	Set gateway for all of them.
	In the Routers CLI.
	The Indiana Control
	Doutes (Man) Hours
	Router (vlan) # exit
	Router (config) # interface fa 0/0.1
	Router (config-subil) # encapsulation dotles2
	Router (config-subif) # ip address 192.168.2:1
	255. 255. 255. 0
	The second secon
	Router (config - subil) # no shut
	Router (config-subif)#exit Router (config)#exit
	Rouler (config) # exit
	10k1/hagae**
	Ping message from PC to another VLAN
	a senten and 4 PT. PC
2 BOR	Peng Outhut.
/	has not released at no continue too
	Packet Jeracer PC command dine 1.0
9	PC > Ping 192.168.20.3
	Pinging 192.168.20.3 with 32 bytes of dat
	a arrest this and set
	Request timed out.
Po 3 10	Reply from 192.168.20.3: bytes=32. time=0ms Reply from 192.168.20.3: bytes=32 time=5ms TIL=
	10-11 1 10-m 17) 16x 90 0. hines - 32