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Q1: Building and Testing VLAN Trunking Protocol

Tasks:

Introduction (devices Connectivity, IP Assigning,)

I have connected the devices using following ports of the switch in the figure above. Now IP assigning:

Similarly, assigning the IPs of PC1 (192.168.1.2), PC2 (192.168.1.3), PC3 (192.168.1.4), PC4 (192.168.1.5), PC5 (192.168.1.6), PC6 (192.168.1.7), PC7 (192.168.1.8), PC8 (192.168.1.9), PC9 (192.168.1.10), PC10 (192.168.1.11), PC11 (192.168.1.12), PC12 (192.168.1.13), PC13 (192.168.1.14), PC14 (192.168.1.15), PC15 (192.168.1.16) respectively.

Now we will make different VLANs: For Switch0; First, naming the VLANs

Then, allotting the fastEthernet ports to different VLANs Allotting port 0/1 and 0/2 to VLAN 4 that is bscs4a. Allotting port 0/3 and 0/4 to VLAN 5 that is bscs4b.

Allotting port 0/5 and 0/6 to VLAN 6 that is bscs4c.

Allotting port 0/7 and 0/8 to VLAN 7 that is bscs4d.

Now using the command "show vlan", to display the VLANs

Repeat the above steps for Switch1.

Packet Simulation(Same VLAN and Different Switches)

Packet simulation on same VLAN but different switches, PC2 and PC10 both belongs to VLAN 5.

Connection Testing Between same VLAN on Same Switch

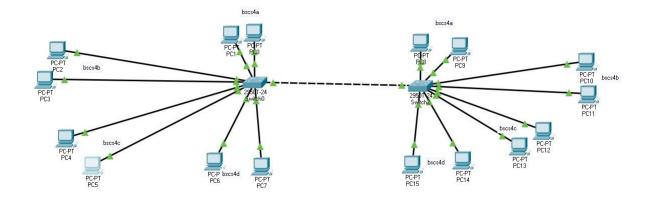
Testing the connection within same VLAN and same switch PCO and PC1 both belongs to VLAN 4.

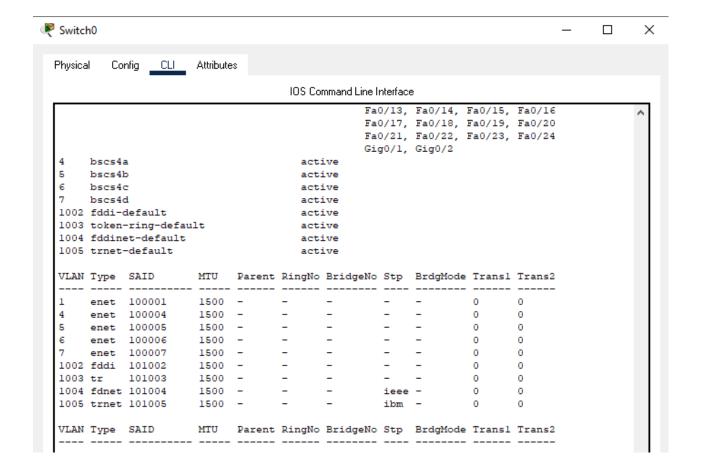
Connection Testing Between Different Switches

To test the connection between different switches, first we need to give command (switchport mode trunk) on the port that is connecting the both switches.

Testing the connection with same VLAN, but different switches PC1 and PC8 both belongs to VLAN 4.

ANSWER:





In annual function of the func		
Switch (config-if-range) #exit		
Switchtconfi9)#		
\SYS-S-CONFtC_I : Configur d from a	onsole by cor	so le
show vln		
VI.AN Na.me	Status	Ports
■ def.ult	active	FaO/S, FaO/10, FaO/11, FaO/12 FaO/13, FaO/14, 2aO/15, FaO/16 FaO/17, FaO/18, FaO/15, FaO/20 FaO/21, FaO/22, FaO/23, FaO/24 Gig-O/1, Gig-O/2
4 bscs4&	active	Fa0/1, Fa0/2
S bscs4b	active	Fa0/3, Fa0/4
E bscs4c		FaO/S, FaO/€
7 bscs4d		Fa0/7, Fa0/8
1002 fddi-detau.lt	active	
1003 token-ring-defau #	active	
1004 fddinet-detau.lt	active active	
1005 trnet-dt&u.lt	active	
VLAN Type SAID !MTIJ Parent	R.ingNo Bridge	No Sep BrdqMode Transl Trans2
1 enet 100001 1600		0 0
4 enet 100004 1600		0 0
S enet 100006 1600		0 0
More		

