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01-134192-030

BS(CS)-4B

Q1: Building and Testing VLAN

Tasks:

Introduction (devices Connectivity, IP Assigning,)

I have connected the devices and using following ports given in the figure above.

Now IP assigning:

Similarly, assigning the IPs of PC1 (192.168.1.30), PC2 (192.168.1.31), PC3 (192.168.1.32), PC4 (192.168.1.33), PC5 (192.168.1.34) respectively.

Now we will make different VLAN:

- First, naming the VLANs
- Then, allotting the fastEthernet ports to different VLANs
- Allotting port 0/1 and 0/2 to VLAN 10 that is student.
 - Allotting port 0/3 and 0/4 to VLAN 20 that is management.
- Allotting port 0/5 and 0/6 to VLAN 30 that is faculty.
- Now using the command “show vlan”, to display the VLANs

Connection Testing

- Testing the connection within same VLAN, PC0 and PC1 both belongs to VLAN 10.

Packet Simulation(Same VLAN and Different VLAN)

Packet simulation within the same VLAN that is VLAN 10 using PC0 and PC1 to transmit packets.

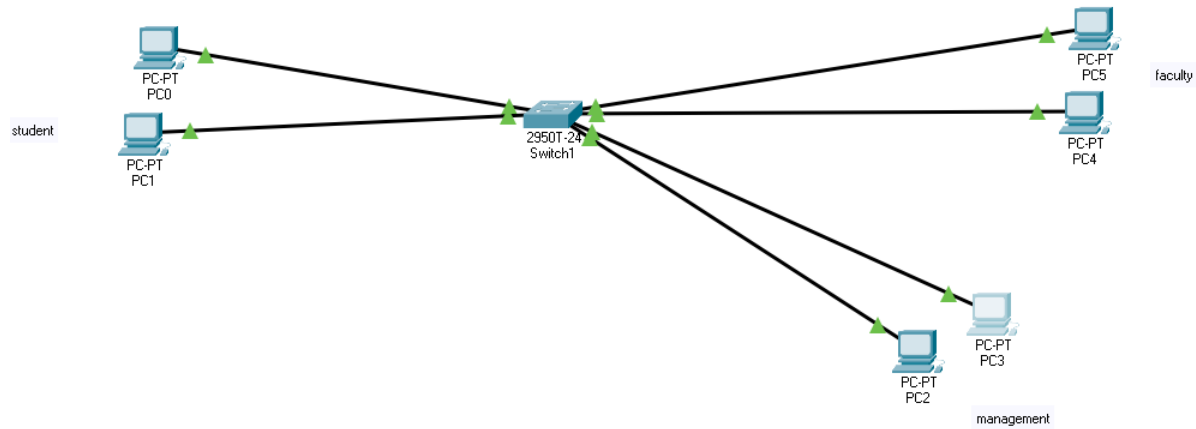
Connection Testing Between same VLAN

- Testing the connection within same VLAN, PC0 and PC1 both belongs to VLAN 10.

Connection Testing Between Different VLAN

- Testing the connection between different VLAN, PC2 (belongs to VLAN 20) and PC5 (belongs to VLAN 30)

ANSWER:



VLAN	Name	Status	Ports
1	default	active	Fa0/7, Fa0/8, Fa0/9, Fa0/10 Fa0/11, Fa0/12, Fa0/13, Fa0/14 Fa0/15, Fa0/16, Fa0/17, Fa0/18 Fa0/19, Fa0/20, Fa0/21, Fa0/22 Fa0/23, Fa0/24, Gig0/1, Gig0/2
10	student	active	Fa0/1, Fa0/2
20	management	active	Fa0/3, Fa0/4
30	faculty	active	Fa0/5, Fa0/6
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2
1	enet	100001	1500	-	-	-	-	-	0	0
10	enet	100010	1500	-	-	-	-	-	0	0
20	enet	100020	1500	-	-	-	-	-	0	0
30	enet	100030	1500	-	-	-	-	-	0	0
1002	fddi	101002	1500	-	-	-	-	-	0	0
1003	tr	101003	1500	-	-	-	-	-	0	0
1004	fdnet	101004	1500	-	-	-	ieee	-	0	0
1005	trnet	101005	1500	-	-	-	ibm	-	0	0

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2
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Remote SPAN VLANs

Primary	Secondary	Type	Ports
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sl#  
%SYS-5-CONFIG_I: Configured from console by console
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```
sl#show vlan
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VLAN	Name	Status	Ports
1	default	active	Fa0/7, Fa0/8, Fa0/9, Fa0/10 Fa0/11, Fa0/12, Fa0/13, Fa0/14 Fa0/15, Fa0/16, Fa0/17, Fa0/18 Fa0/19, Fa0/20, Fa0/21, Fa0/22 Fa0/23, Fa0/24, Gig0/1, Gig0/2
10	student	active	Fa0/1, Fa0/2
20	management	active	Fa0/3, Fa0/4
30	faculty	active	Fa0/5, Fa0/6
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2
1	enet	100001	1500	-	-	-	-	-	0	0
10	enet	100010	1500	-	-	-	-	-	0	0
20	enet	100020	1500	-	-	-	-	-	0	0
30	enet	100030	1500	-	-	-	-	-	0	0
1002	fddi	101002	1500	-	-	-	-	-	0	0
1003	tr	101003	1500	-	-	-	-	-	0	0
1004	fdnet	101004	1500	-	-	-	ieee	-	0	0
1005	trnet	101005	1500	-	-	-	ibm	-	0	0

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2
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Remote SPAN VLANs
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