

Usman Institute of Technology Department of Computer Science Fall 2022

Name: Muhammad Waleed

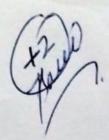
Roll no: <u>20B-115-SE</u>

Course: DCCN (CS-222)

Course Instructor: Engr. Fauzan Saeed

Date: <u>7-Dec-2022</u>

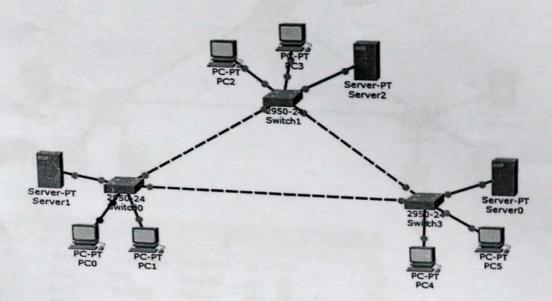
Muhammad Waleed 20b-115-se Lab#08 DCCN Engr Fauzan Saeed



Lab Tasks:

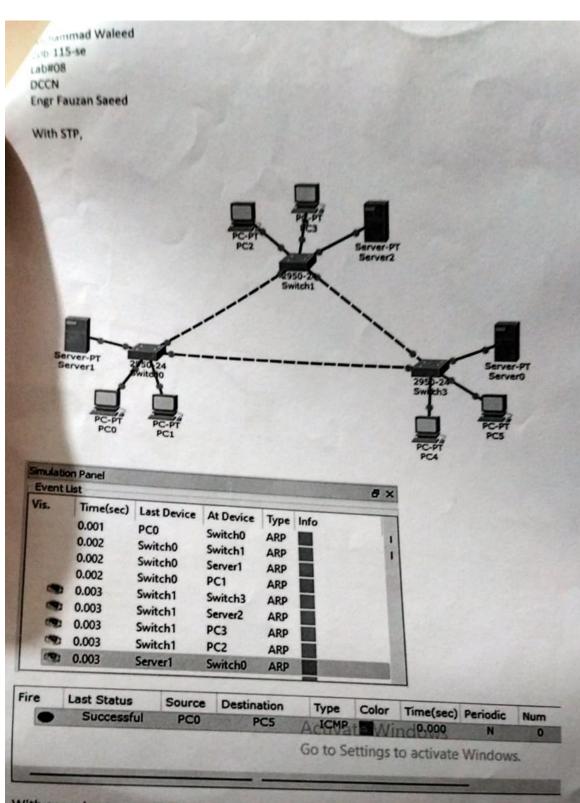
Spanning Tree Protocol:

With Spanning Tree Protocol disabled,



Vis.	Time(sec)	Last Device	At Device	-		
	0.000		PC1	Type ICMP		•
	0.009		Switch3	ARP		
	0.010 0.016	Switch3	Switch0 PC4	ARP		
	0.017	PC4	Switch3	ARP		
	0.018	Switch0	Switch0 Switch3	ARP	100	
1922	0.035		Switch3	ARP		
Reset Simulation Constant Delay						Captured to: 0.209 s

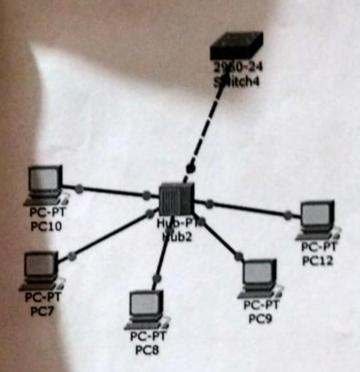
Without STP, broadcast storm will be formed and message will travel in loop which can make your network down.



With spanning tree enabled, the message will be delivered successfully because STP will stop message to loop around and will stop the transferring of message on reaching destination.

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Lab Task 2: Port Security



Configuration,

Switch'en
Switch'sconfig
Configuring from terminal, memory, or network (terminal)? t
Enter configuration commands, one per line. End with CMTL/I.
Switch(config-if) switchport mode access
Switch(config-if) switchport port-security ?
mac-address Secure mac address
maximum Max secure addresses
violation Security violation mode
<cr>
Switch(config-if) switchport port-security
Switch(config-if) switchport port-security
Switch(config-if) switchport port-security violation shutdown
Switch(config) sexit

Switchish port-security int fa0/1 : Enabled Port Security : Secure-up Port Status : Shutdown Violation Mode : 0 mins Aging Time : Absolute Aging Type SecureStatic Address Aging : Disabled Maximum MAC Addresses Total MAC Addresses Configured MAC Addresses Sticky MAC Addresses : 0000.0000.0000:0 Last Source Address: Vlan Security Violation Count