Date: 01/10/2022

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Course Code and Name: Computer Networks (2CS502)

Experiment No: 5

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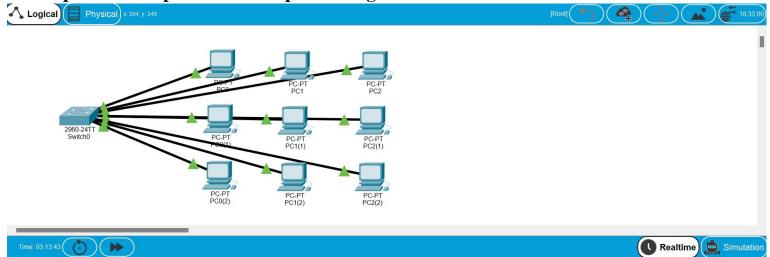
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• Aim: Virtual LAN: Simulate Virtual LAN configuration using CISCO Packet Tracer Simulation.

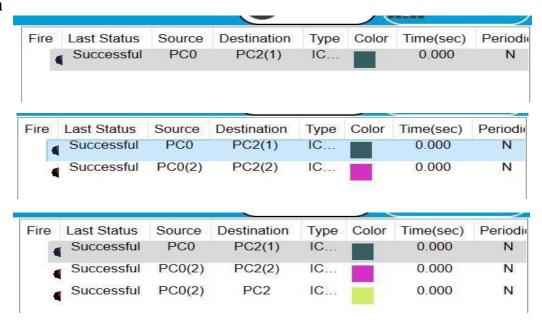
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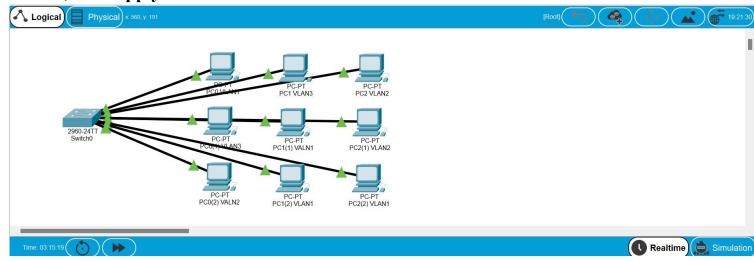
## 1. Implement Simple Switch-computer using Cisco Packet Tracer



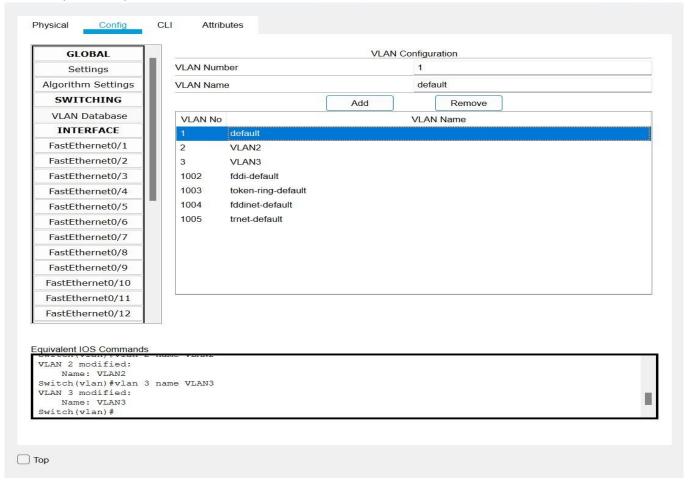
### 2. Simulation



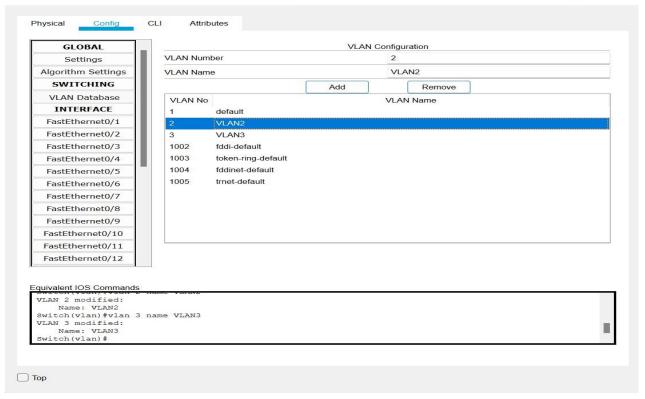
## 3. Now, we'll apply VLAN in database



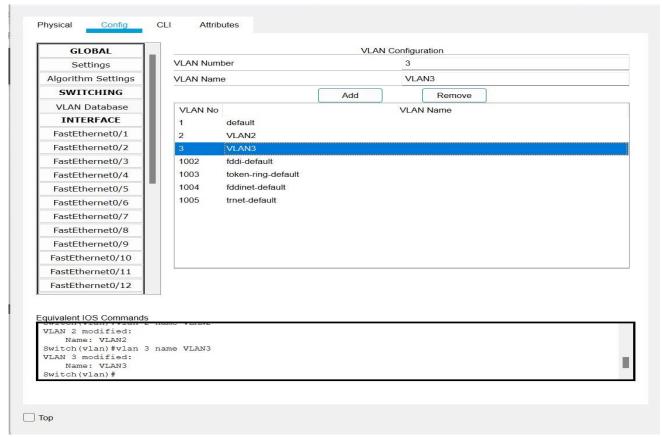
### i) VLAN1 (Default)



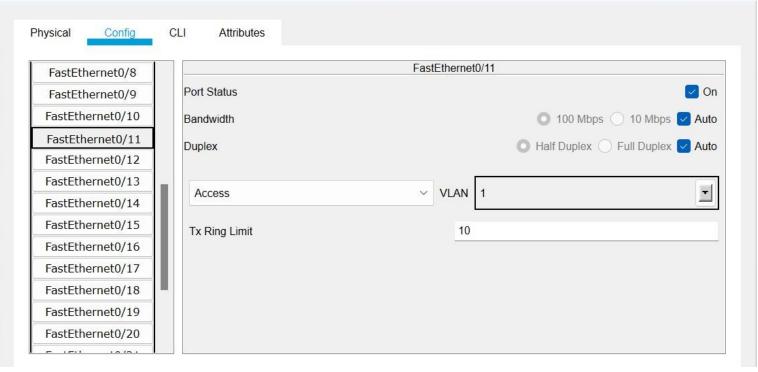
#### ii)VLAN2



### iii)VLAN3



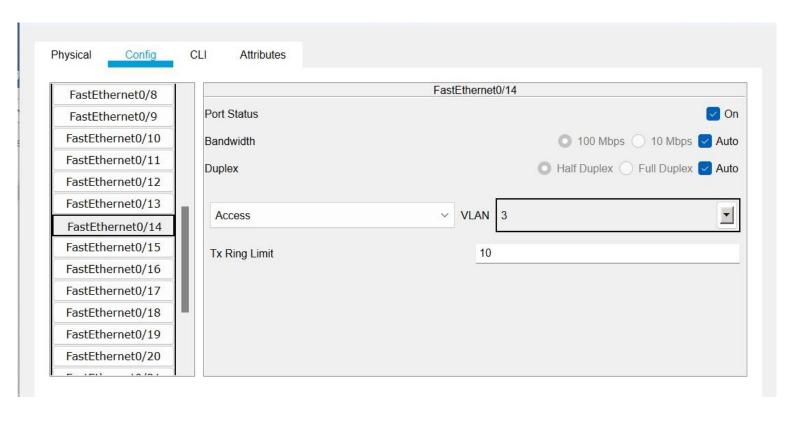
4. change Ethernet1, Ethernet2, Ethernet3 to VLAN1, VLAN3, VLAN2 Respectively.

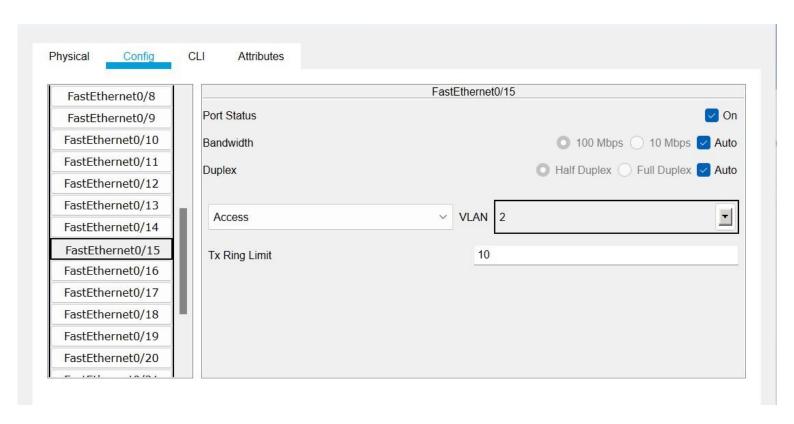


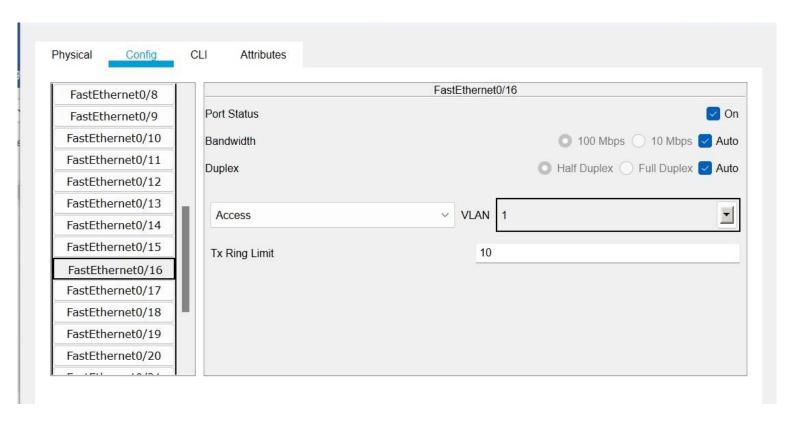
FastEthernet0/8		FastEthernet0/12
FastEthernet0/9	Port Status	
FastEthernet0/10	Bandwidth	
FastEthernet0/11	Duplex	○ Half Duplex ○ Full Duplex ✓ A
FastEthernet0/12	Бирюх	Tall Bapton Tall Bapton
FastEthernet0/13	1	WAN 2
FastEthernet0/14	Access  Tx Ring Limit	VLAN 3
FastEthernet0/15		
FastEthernet0/16	9	
FastEthernet0/17		
FastEthernet0/18		
FastEthernet0/19		
FastEthernet0/20		

FastEthernet0/8		FastEthernet0/13
FastEthernet0/9	Port Status	<b>☑</b> 0
FastEthernet0/10	Bandwidth	■ 100 Mbps ■ 10 Mbps ■ Auto
FastEthernet0/11	Duplex	○ Half Duplex ○ Full Duplex ✓ Aut
FastEthernet0/12	Бирюх	Train Edgiox Train Edgiox
FastEthernet0/13	A	VLAN 2
FastEthernet0/14	Access	VLAN 2
FastEthernet0/15	Tx Ring Limit	10
FastEthernet0/16		·
FastEthernet0/17		
FastEthernet0/18		
FastEthernet0/19		

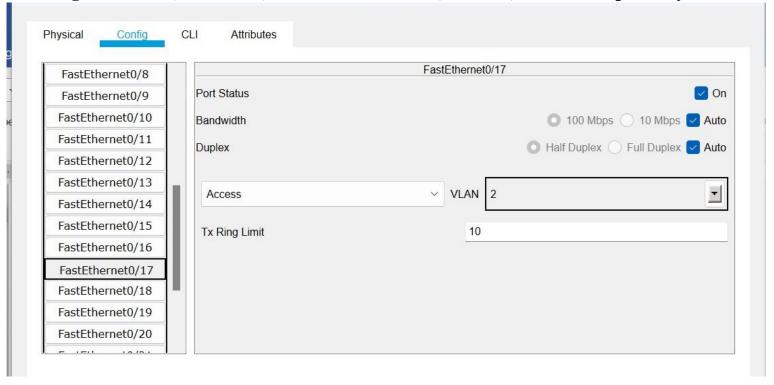
5. change Ethernet4, Ethernet5, Ethernet6 to VLAN3, VLAN1, VLAN2 Respectively.

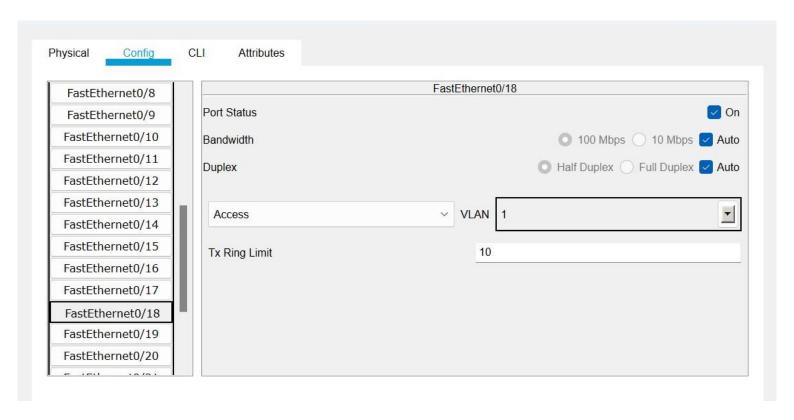


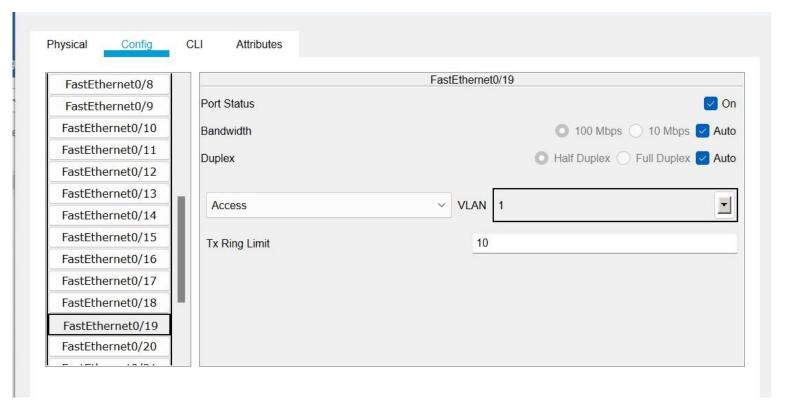




6.change Ethernet7, Ethernet8, Ethernet9 to VLAN2, VLAN1, VLAN1 Respectively.

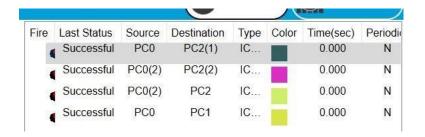




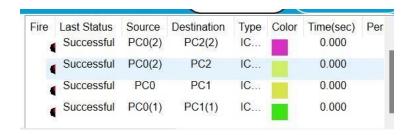


#### 7. Simulation

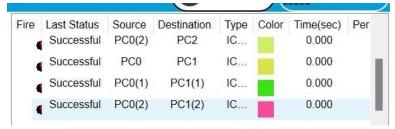
i) PC-PT PC0 to PC-PT PC1 (Between LAN1)



# ii)PC-PT PC0(1) to PC-PT PC1(1) (Between LAN2)

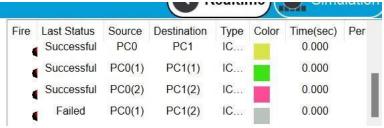


## iii)PC-PT PC0(2) to PC-PT PC1(2) (Between LAN3)

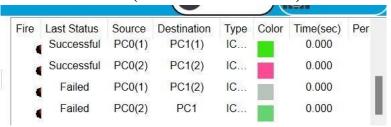


#### 8. Now with different VLAN

i) PC-PT PC0(1) to PC-PT PC1(2) (LAN12 to LAN13)



## ii) PC-PT PC0(2) to PC-PT PC1 (LAN13 to LAN11)



• Conclusion:
By learning this practical, I learn how to Simulate Virtual LAN configuration using CISCO Packet Tracer Simulation.