

Semester 5th | Practical Assignment | Computer Networks (2301CS501)

Date:

Lab Practical #05:

Study the concept of VLAN using packet tracer.

Practical Assignment #05:

1. Implement the different network structures in VLAN and VLAN trunking. Also check connectivity between them using ping command or PDU utility.

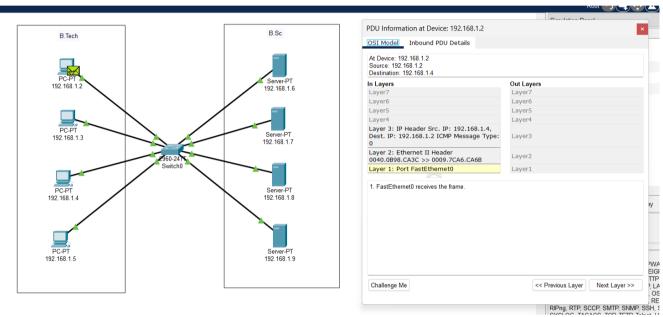


Figure 1 same VLAN data transfer

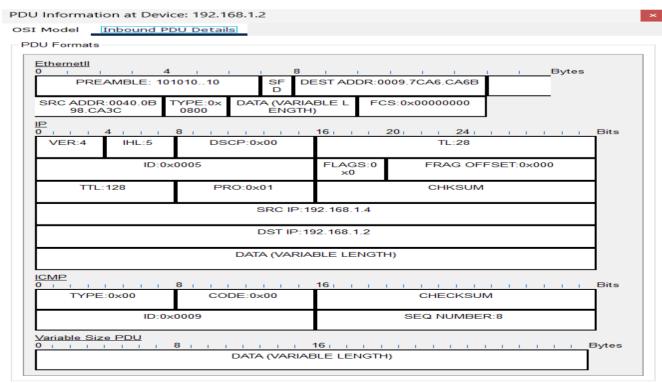


Figure 2 Same VLAN PDU



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PDU Information at Device: Switch0 B.Sc B.Tech OSI Model Outbound PDU Details At Device: Switch0 Source: Switch0 Destination: 0003.E465.E607 In Lavers Out Lavers Layer7 Layer6 Layer7 Layer6 Layer5 Layer4 Layer5 Layer4 Layer3
Layer 2: IEEE 802.3 Header
0003.E465.E607 >> 0100.0CCC.CCCC LLC
SNAP DTP Layer3 Layer2 Layer 1: Port(s): FastEthernet0/7 The device sends out a DTP frame on FastEthernet0/7.
 The device encapsulates the PDU into an Ethernet frame.
 The Switch unicasts the frame out to the access port. 192.168.1.9 << Previous Layer Next Layer >> Challenge Me

Figure 3 Different VLAN data transfer

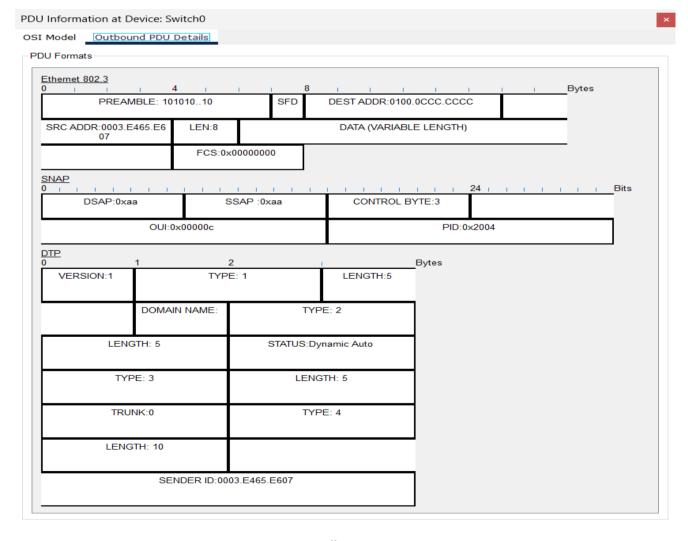


Figure 4 Different VLAN PDU

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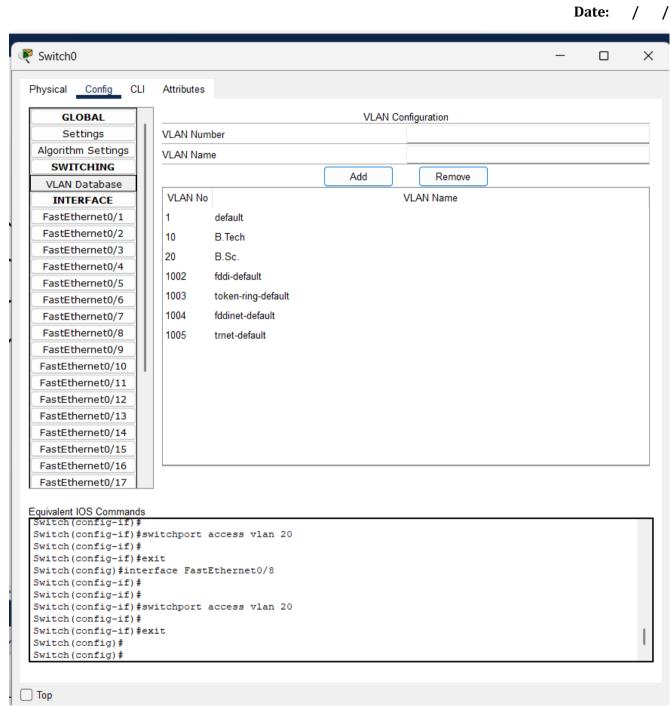


Figure 5 Switch Configuration



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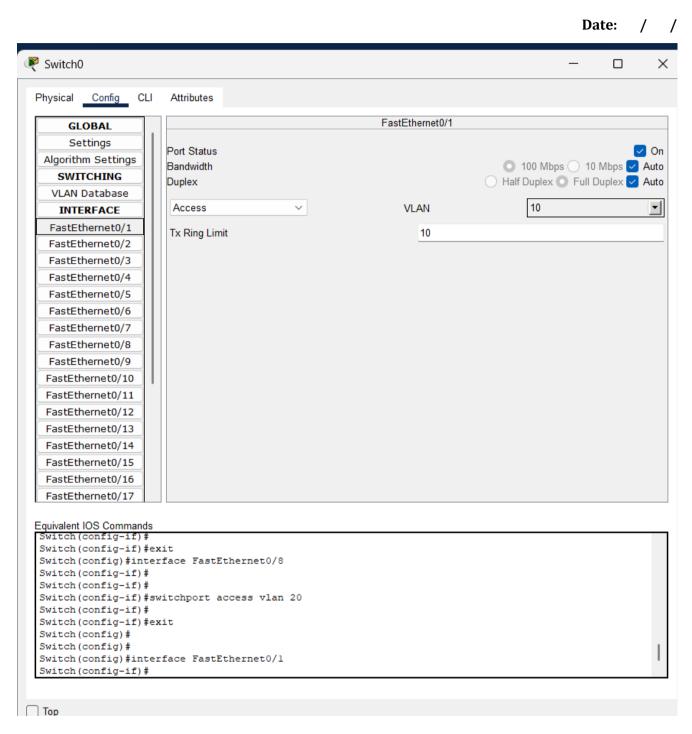


Figure 6 Port Configuration