

A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering
Data Science



Academic Year: 2023-24 Name of Student:

Semester: V Student ID:

Class / Branch: TE Roll No:

Subject: WCN Lab **Date of Submission:**

Experiment No. 08

1. Aim: To design and simulate VLANs on the switch/router using Cisco packet tracer/ GNS3.

Procedure:

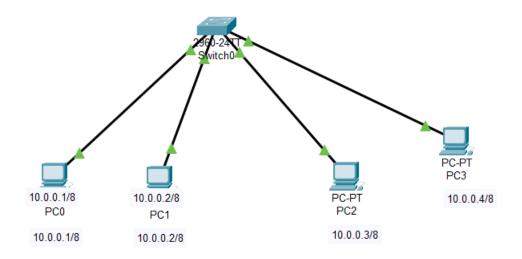


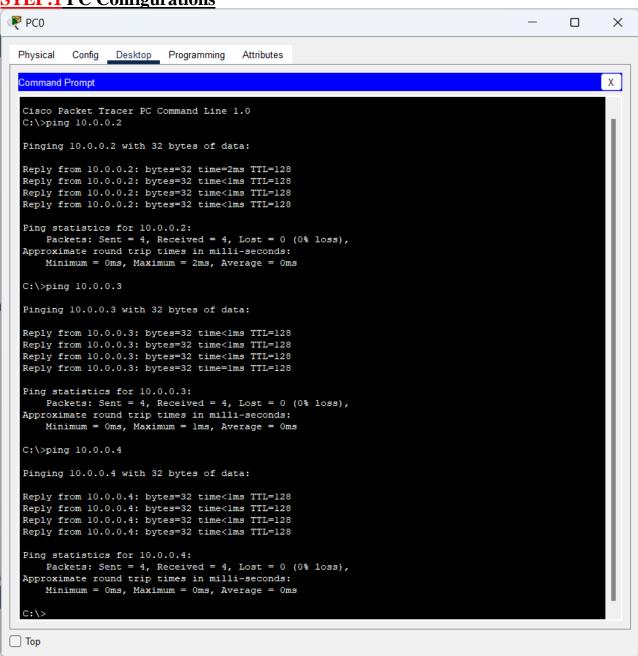
Figure: Initial Network Architecture (No VLAN)



Department of Computer Science and Engineering
Data Science



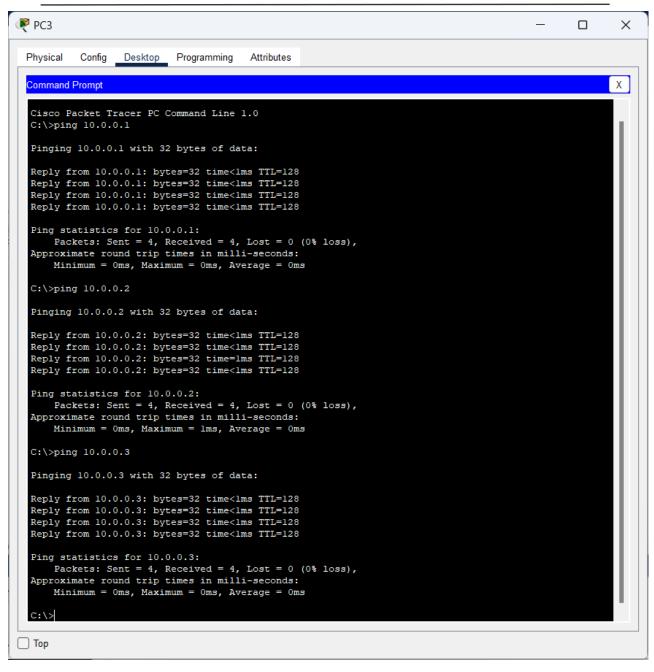
STEP:1 PC Configurations





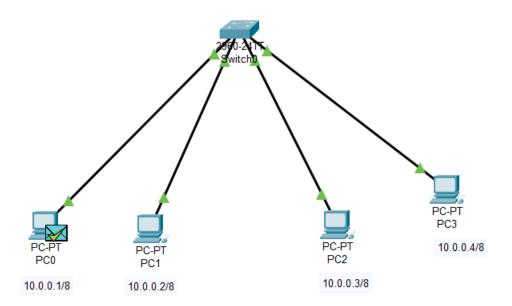
A.P. SHAH INSTITUTE OF TECHNOLOGY

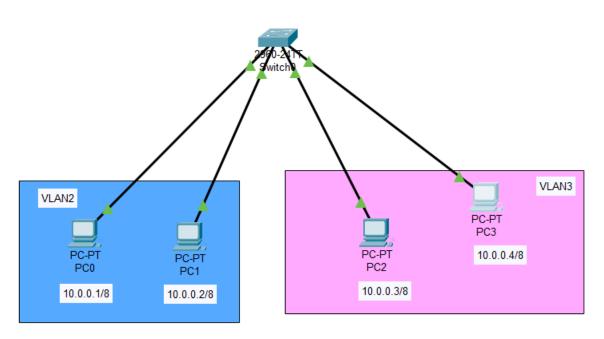














A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering Data Science



Switch>enable Switch#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config) #vlan 2

Switch(config-vlan) #name office

Switch(config-vlan)#exit

Switch(config)#vlan 3

Switch(config-vlan) #name home

Switch(config-vlan)#exit

Switch(config) #interface fastEthernet 0/1

Switch(config-if) #switchport access vlan 2

Switch(config-if)#exit

Switch(config) #interface fastEthernet 0/2

Switch(config-if) #switchport access vlan 2

Switch (config-if) #exit

Switch(config) #interface fastEthernet 0/3

Switch(config-if) #switchport access vlan 3

Switch(config-if)#exit

Switch(config) #interface fastEthernet 0/4

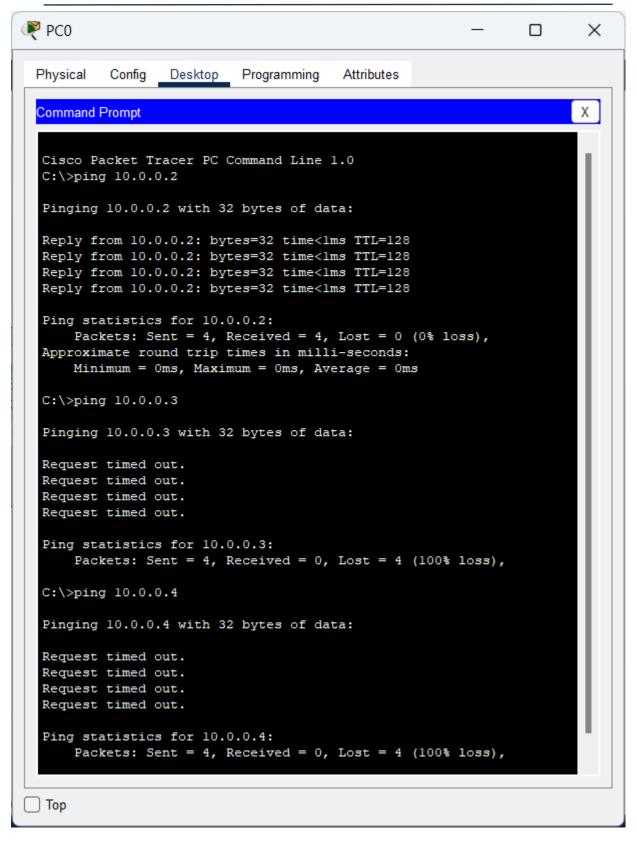
Switch(config-if) #switchport access vlan 3

Switch(config-if)#exit

Switch(config)#

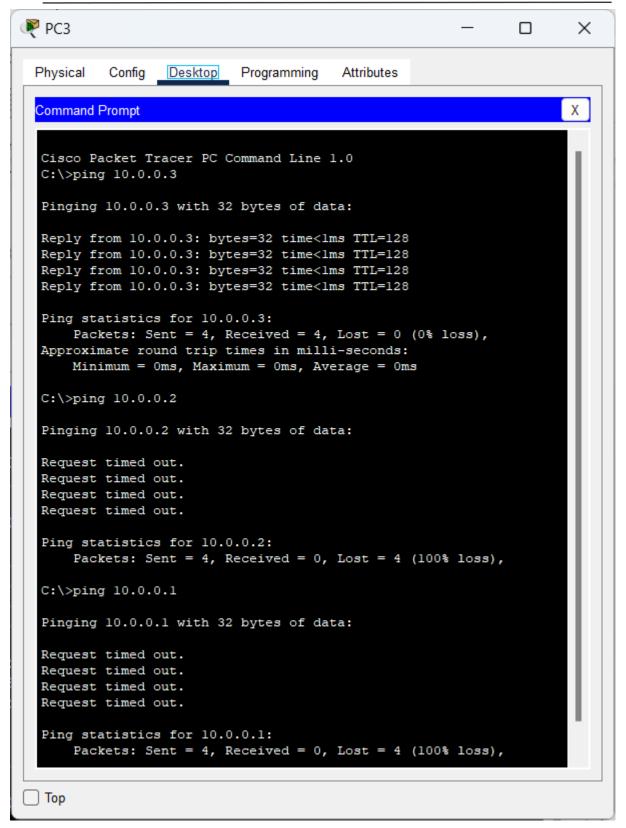






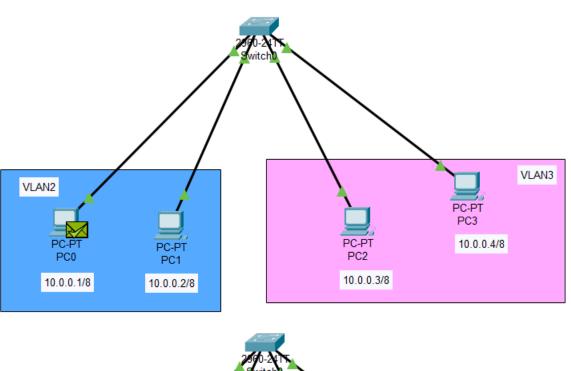


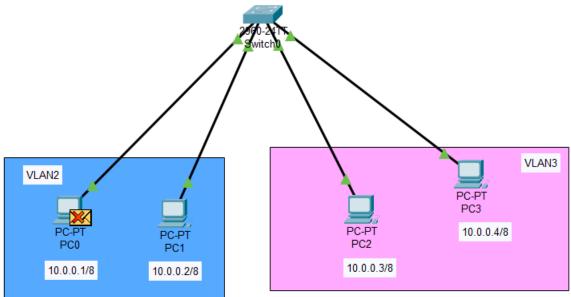














A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering Data Science



Switch>en Switch#show vlan br Switch#show vlan brief

l		_	
VLAN	Name	Status	Ports
1	default	active	Fa0/5, Fa0/6, 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
2	office	active	Fa0/1, Fa0/2
3	home	active	Fa0/3, Fa0/4
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

To Delete Configuration of a Cisco Route / Switches?

Switch# write erase

Switch# delete vlan.dat

Switch# reload