



# **Computer Networking lab**

# **LAB 05**

Course Code: CSE 314

### Submitted to:

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Section: PC-A

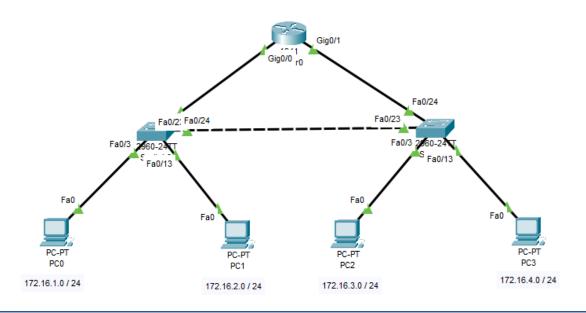
Department of CSE

Daffodil International University

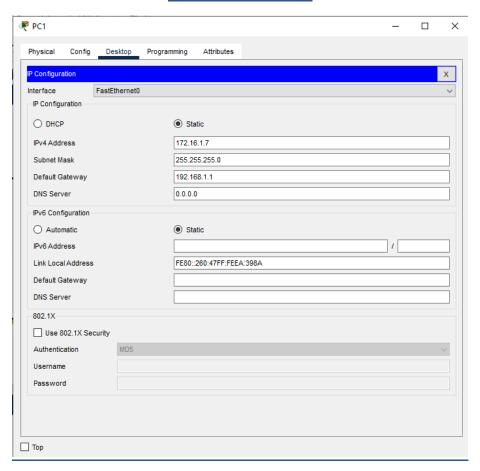
Date of Submission: 9/28/2022



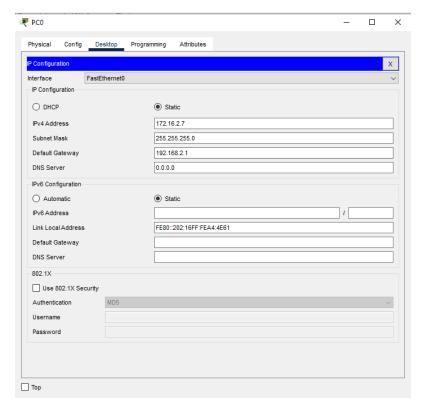
### **Diagram**



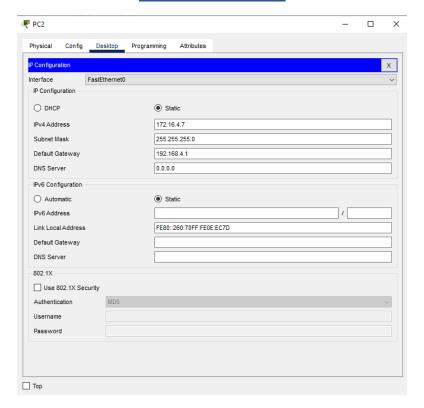
# 1st Pc Ip Address



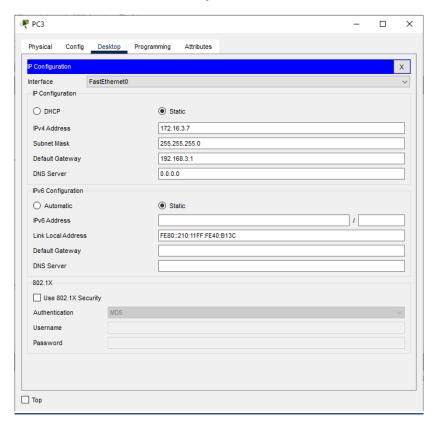
## 2<sup>nd</sup> Pc Ip Address



# 3<sup>rd</sup> Pc Ip Address



### 4th Pc Ip Address



### **Coding part**

#### Switch-01

Switch>en

Switch#config t

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

Switch(config)#vlan 55

Switch(config-vlan)#ex

Switch(config)#vlan 105

Switch(config-vlan)#ex

Switch(config)#ex

Switch#show vlan

#### **VLAN Name Status Ports**

----

1 default active Fa0/1, Fa0/2, Fa0/3, Fa0/4

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, Fa0/23, Fa0/24, Gig0/1

Gig0/2

55 VLAN0050 active

105 VLAN0100 active 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 50 enet 100050 1500 - - - - 0 0 100 enet 100100 1500 - - - - 0 0

#### Switch#config t

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

Switch(config)#interface range f0/1-10

Switch(config-if-range)#switchport mode access

Switch(config-if-range)#switch access vlan 55

Switch(config-if-range)#ex

Switch(config)#interface range f0/11-20

Switch(config-if-range)#switchport mode access

Switch(config-if-range)#switch access vlan 105

Switch(config-if-range)#ex

Switch(config)#int f0/24

Switch(config-if)#switchport mode trunk

Switch(config-if)#ex

Switch(config)#int f0/23

Switch(config-if)#switchport mode trunk

Switch(config-if)#ex

Switch(config)#ex

Switch#

#### Switch-02

Switch>en

Switch#config t

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

Switch(config)#vlan 50

Switch(config-vlan)#ex

Switch(config)#vlan 100

Switch(config-vlan)#ex

Switch(config)#ex

Switch#show vlan

#### VLAN Name Status Ports

----

1 default active Fa0/1, Fa0/2, Fa0/3, Fa0/4

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, Fa0/23, Fa0/24, Gig0/1

Gig0/2 50 VLAN0050 active 100 VLAN0100 active 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 50 enet 100050 1500 - - - - 0 0 100 enet 100100 1500 - - - - 0 0

#### Switch#config t

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

Switch(config)#interface range f0/1-10

Switch(config-if-range)#switchport mode access

Switch(config-if-range)#switch access vlan 50

Switch(config-if-range)#ex

Switch(config)#interface range f0/11-20

Switch(config-if-range)#switchport mode access

Switch(config-if-range)#switch access vlan 100

Switch(config-if-range)#ex

Switch(config)#int f0/24

Switch(config-if)#switchport mode trunk

Switch(config-if)#ex

Switch(config)#int f0/23

Switch(config-if)#switchport mode trunk

Switch(config-if)#ex

Switch(config)#ex

Switch#

#### **Router**

#### Router#config t

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

Router(config)#int gig0/0

Router(config-if)#no shut

#### Router(config-if)#ex

Router(config)#int gig0/0.1

Router(config-subif)#encapsulation dot1Q 55

Router(config-subif)#ip add 172.16.1.1 255.255.255.0

Router(config-subif)#ex

Router(config)#int gig0/0.2

Router(config-subif)#encapsulation dot1Q 105

Router(config-subif)#ip add 172.16.2.1 255.255.255.0

Router(config-subif)#ex

Router(config)#ex

Router#config t

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

Router(config)#int gig0/1

Router(config-if)#no shut

Router(config-if)#ex

Router(config)#int gig0/1.1

Router(config-subif)#encapsulation dot1Q 50

Router(config-subif)#ip add 172.16.3.1 255.255.255.0

Router(config-subif)#ex

Router(config)#int gig0/1.2

Router(config-subif)#encapsulation dot1Q 100

Router(config-subif)#ip add 172.16.4.1 255.255.255.0

Router(config-subif)#ex

Router(config)#ex

Router#copy run start

Destination filename [startup-config]?

Building configuration...

[OK]

Router#

### **Packet transfer**

