

## Module:- Fundamental Computer Network

Date:- 13/10/2022

### Assignment :- 04 (INTER VLAN )

IP Schema for Your Network: xxx. Roll\_Number .yyy.zzz

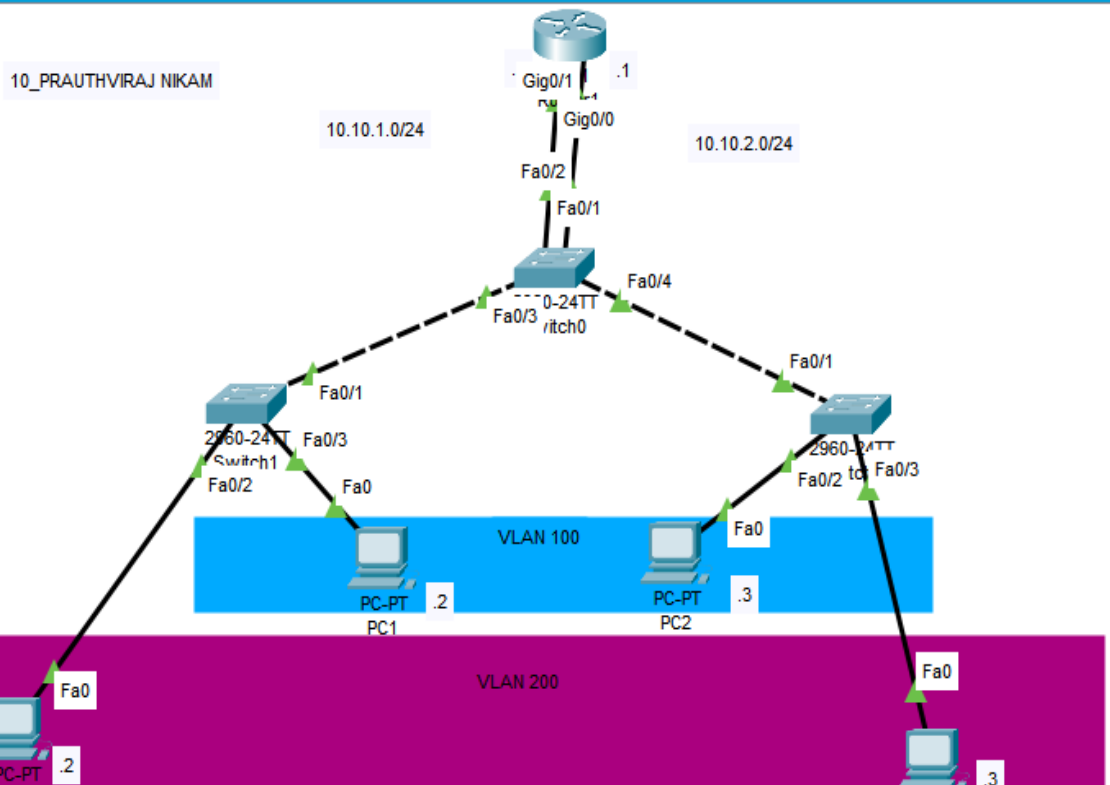
Example: If your roll No. ends with 25, then the IP you can use as follows.

Cisco Packet Tracer - C:\Users\Administrator\Desktop\PRAUTHVIRAJ\_10(INTERVLAN).pkt

File Edit Options View Tools Extensions Help

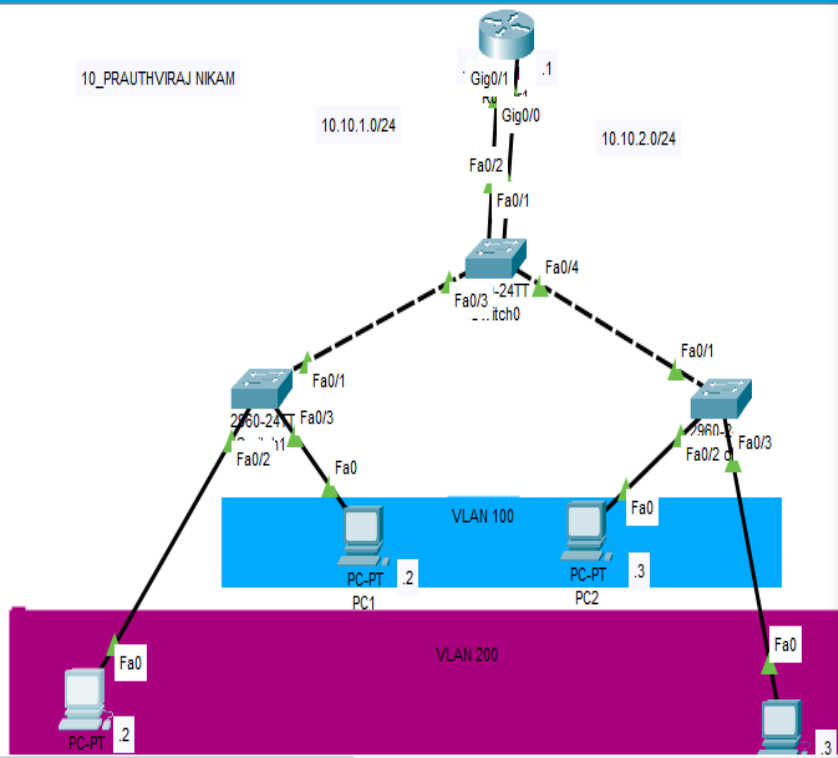


Logical Physical x: 890, y: 83





Physical x: 848, y: 178



Switch2

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 100
Switch(config-vlan)#exit
Switch(config)#vlan 200
Switch(config-vlan)#exit
Switch(config)#interface f0/3
Switch(config-if)#hostname SW2
SW2(config)#interface f0/3
SW2(config-if)#switchport mode access
SW2(config-if)#switchport access vlan 200
SW2(config-if)#exit
SW2(config)#interface f0/2
SW2(config-if)#switchport mode access
SW2(config-if)#switchport access vlan 100
SW2(config-if)#exit
SW2(config)#interface f0/1
SW2(config-if)#switchport mode trunk

SW2(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1,
changed state to down
```

Ctrl+F6 to exit CLI focus

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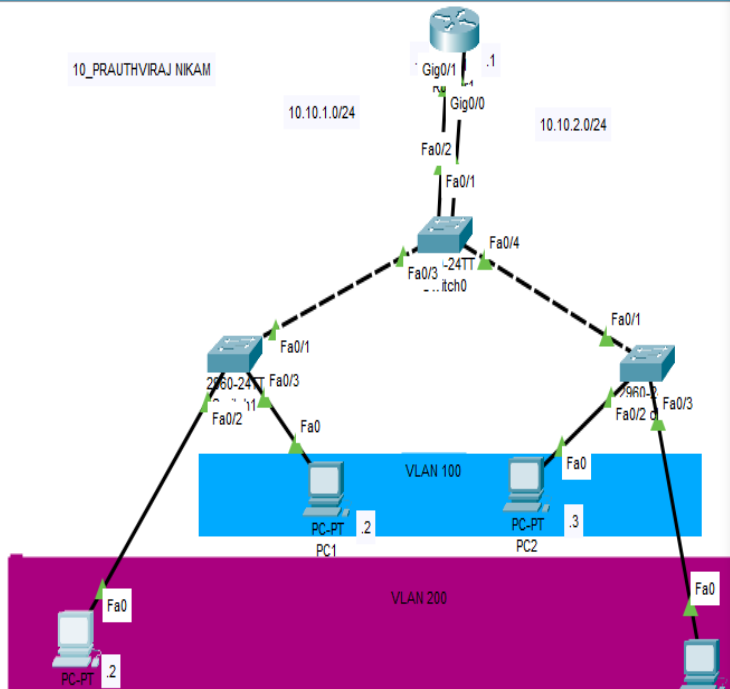


Logical Physical x: 305, y: 188

10\_PRAUTHVIRAJ NIKAM

10.10.1.0/24

10.10.2.0/24



me: 01:53:14

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

```
Switch(config)#hostname SW1
SW1(config)#interface f0/2
SW1(config-if)#switchport mode access
SW1(config-if)#switchport access vlan 200
% Access VLAN does not exist. Creating vlan 200
SW1(config-if)#exit
SW1(config)#interface f0/3
SW1(config-if)#switchport mode access
SW1(config-if)#switchport access vlan 100
% Access VLAN does not exist. Creating vlan 100
SW1(config-if)#exit
SW1(config)#vlan 100
SW1(config-vlan)#exit
SW1(config)#vlan 200
SW1(config-vlan)#exit
SW1(config)#interface f0/2
SW1(config-if)#switchport mode access
SW1(config-if)#switchport access vlan 200
SW1(config-if)#exit
SW1(config)#interface f0/3
SW1(config-if)#switchport mode access
SW1(config-if)#switchport access vlan 100
SW1(config-if)#exit
SW1(config)#interface f0/1
SW1(config-if)#switchport mode trunk

SW1(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1,
changed state to down

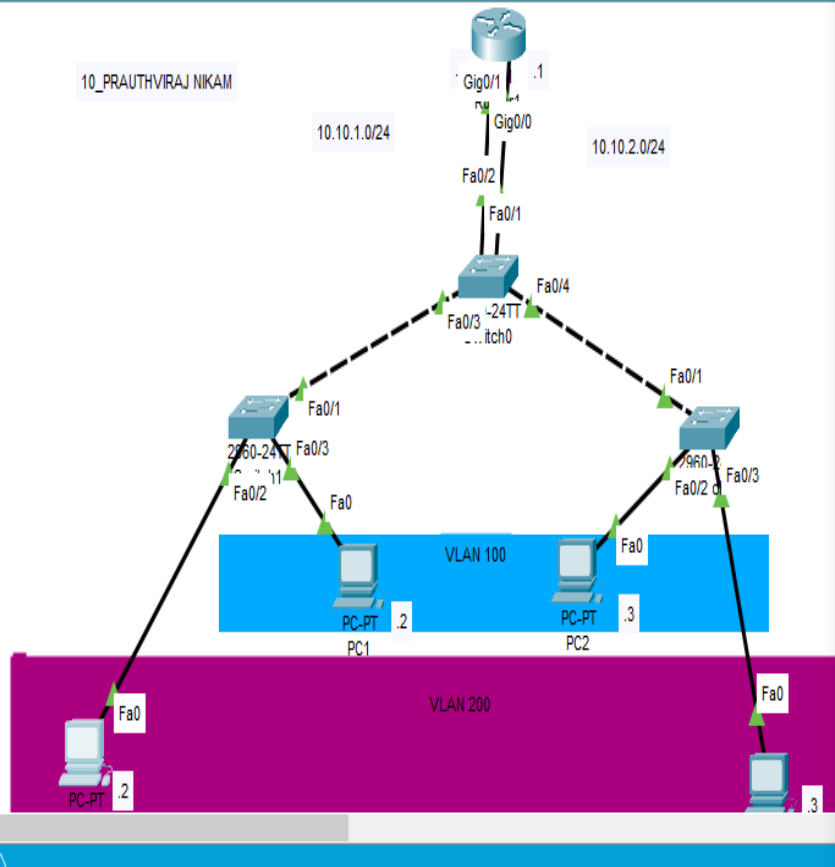
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1,
changed state to up
switchport mode trunk allowed vlan 100,200
^
% Invalid input detected at '^' marker.

SW1(config-if)#switchport trunk allowed vlan 100,200
```



Physical x: 527, y: 319

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Switch0

Physical Config CLI Attributes

IOS Command Line Interface

changed state to up

```

Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW0
SW0(config)#interface f0/3
SW0(config-if)#switchport mode trunk
SW0(config-if)#switchport trunk allowed vlan 100,200
SW0(config-if)#exit
SW0(config)#interface f0/4
SW0(config-if)#switchport mode trunk
SW0(config-if)#switchport trunk allowed vlan 100,200
SW0(config-if)#exit
SW0(config)#interface f0/2
SW0(config-if)#switchport mode access
SW0(config-if)#switchport access vlan 200
% Access VLAN does not exist. Creating vlan 200
SW0(config-if)#exit
SW0(config)#vlan 100
SW0(config-vlan)#exit
SW0(config)#vlan 200
SW0(config-vlan)#exit
SW0(config)#no interface f0/2
^
% Invalid input detected at '^' marker.

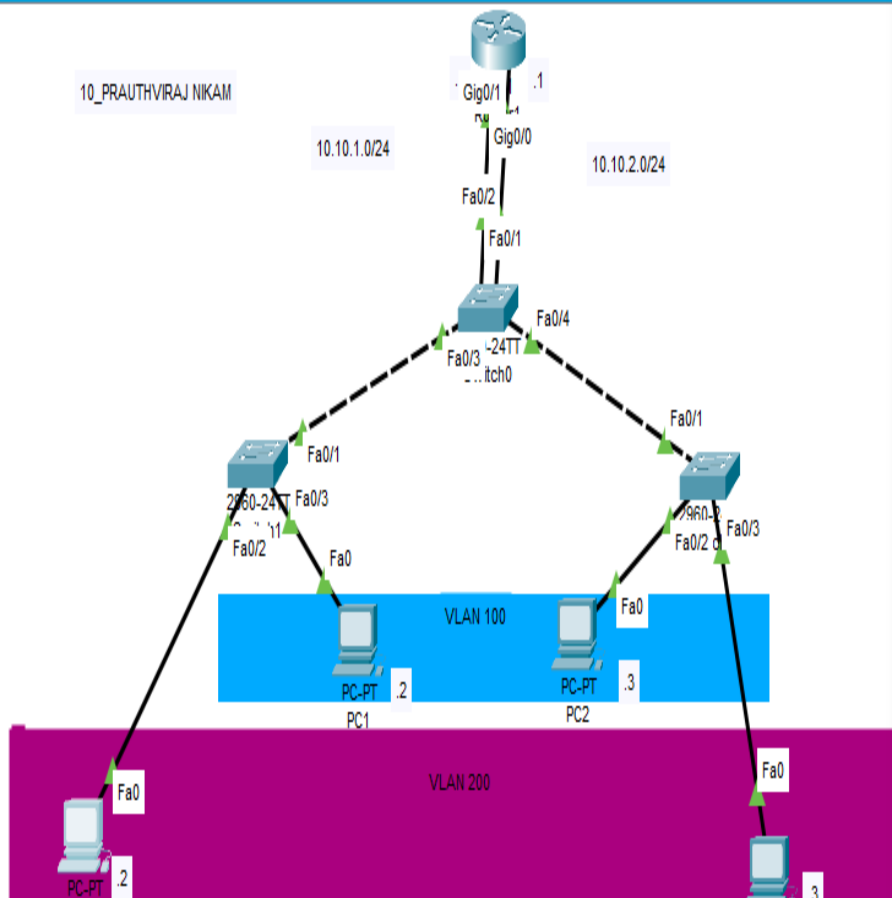
SW0(config)#interface f0/2
SW0(config-if)#switchport mode access
SW0(config-if)#switchport access vlan 200
SW0(config-if)#exit
SW0(config)#interface f0/1
SW0(config-if)#switchport mode access
SW0(config-if)#switchport access vlan 100
SW0(config-if)#exit
SW0(config)#

```



physical x: 882, y: 191

10\_PRAUTHVIRAJ NIKAM



Router1

Physical Config CLI Attributes

IOS Command Line Interface

```
%LINK-5-CHANGED: Interface GigabitEthernet0/1.200, changed s
up

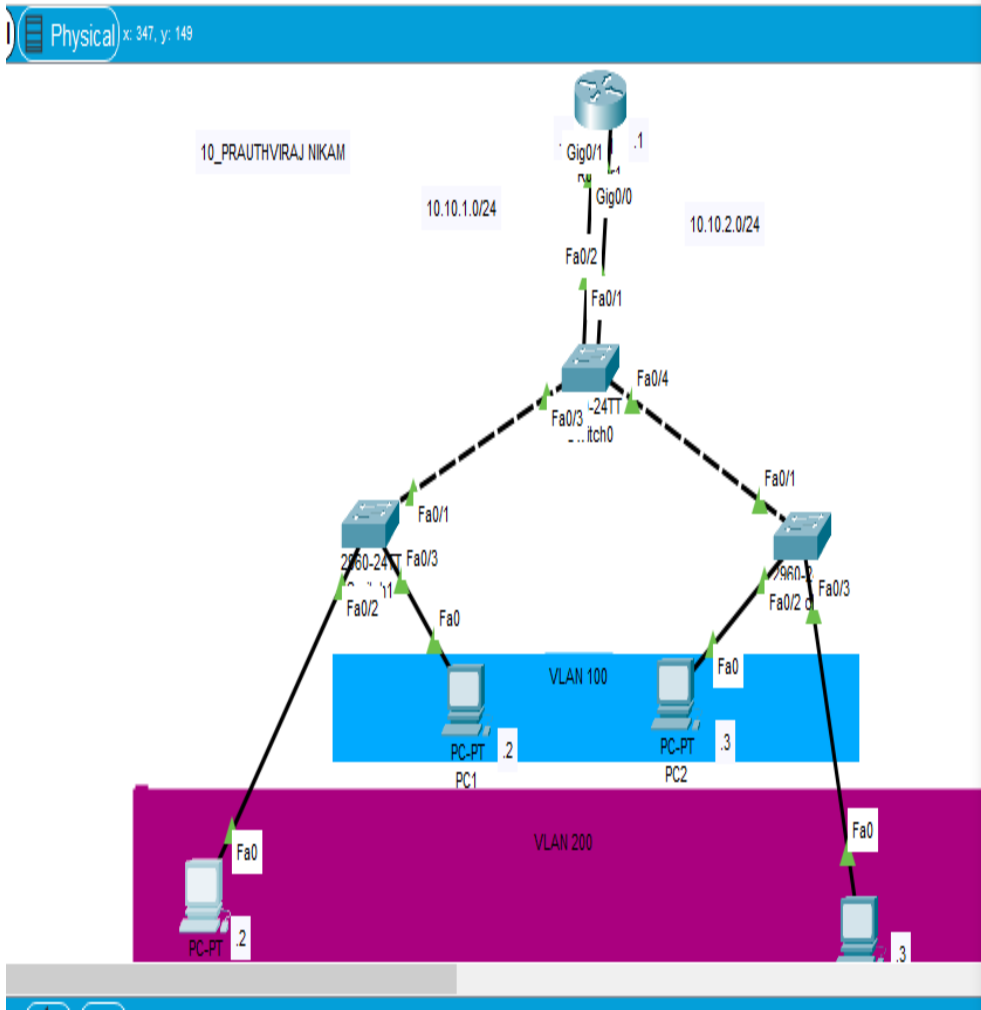
%LINEPROTO-5-UPDOWN: Line protocol on Interface
GigabitEthernet0/1.200, changed state to up
en
R0(config-subif)#encapsulation dot1Q 200
R0(config-subif)#ip address 10.10.1.1 255.255.255.0
R0(config-subif)#exit
R0(config)#interface 0/0.100
R0(config-subif)#
% Invalid input detected at '^' marker.

R0(config)#interface g0/0.100
R0(config-subif)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0.100, changed s
up

%LINEPROTO-5-UPDOWN: Line protocol on Interface
GigabitEthernet0/0.100, changed state to up
en
R0(config-subif)#encapsulation dot1Q 100
R0(config-subif)#ip address 10.10.2.1 255.255.255.0
R0(config-subif)#exit
R0(config)#
```

Ctrl+F6 to exit CLI focus

Copy



PC0

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ping 10.10.2.3

Pinging 10.10.2.3 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 10.10.2.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 10.10.1.3

Pinging 10.10.1.3 with 32 bytes of data:

Reply from 10.10.1.3: bytes=32 time<1ms TTL=128
Reply from 10.10.1.3: bytes=32 time<1ms TTL=128
Reply from 10.10.1.3: bytes=32 time<1ms TTL=128
Reply from 10.10.1.3: bytes=32 time<1ms TTL=128

Ping statistics for 10.10.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```