Configure Vlan (For 3 pc in 1 switch, using vlan 10 & 20)

Enable
Configure terminal
Hostname ClassRoom
Vlan 10
Name Students
Exit
Vlan 20
Name Teachers
Exit
Interface fastethernet 0/1
Switchport mode access
Switchport acess vlan 10
Exit
Interface fastethernet 0/3
Switchport access vlan 10
Exit
Interface fastethernet 0/2
Switchport mode access
Switchport access vlan 20
Exit
Do write memory
Exit
This command will apply just switch0. Then if we pass the packet we can see that same vlan can share packet but different vlan can't share packet. Then we will copy whole interface and paste that. And he

packet but different vlan can't share packet . Then we will copy whole interface and paste that. And here switch name will be switch1.. And off course provide new Ip address in three pc/laptop

Now needed to configure trunk

For Configure trunk:

In switch0: Interface Fastethernet 0/5 Switchport mode trunk Switchport trunk allowed vlan 10,20 Exit In switch1: Enable Configure terminal Interface Fastethernet 0/5 Switchport mode trunk Switchport trunk allowed vlan 10,20 Exit **Configure Router** Here we will use two switch . switch1 pc will one network and switch two pc will another network . This code is just for Router Enable Configure terminal Interface gigabitethernet 0/1 Ip Address 192.168.5.1 255.255.255.0 No Shutdown Exit Interface gigabitethernet 0/2 Ip Address 192.168.10.1 255.255.255.0 No Shutdown Exit Exit

Static Router Configuration

Ip Route Means

ip route [Destination Network] [Subnet Mask] [Next Hop IP Address or Exit Interface]

Here [Subnet Musk] will be of Destination Network

Router-1

Enable

Configure Terminal

Interface GigabitEthernet 0/0

Ip Address 192.168.1.1 255.255.255.0

No Shutdown

Exit

Interface GigabitEthernet 0/1

Ip Address 10.0.0.1 255.255.255.252

No shutdown

Exit

Ip Route 192.168.3.0 255.255.255.0 10.0.0.2

Router-2

Enable

Configure Terminal

Interface GigabitEthernet 0/0

Ip Address 10.0.0.2 255.255.255.252

No Shutdown

Exit

Interface GigabitEthernet 0/1

Ip Route 192.168.3.0 255.255.255.0 10.0.0.6
Ip Route 192.168.1.0 255.255.255.0 10.0.0.1
Router-3
Enable
Configure Terminal
Interface GigabitEthernet 0/0
Ip Address 10.0.0.6 255.255.255.252
No Shutdown
Exit
Interface GigabitEthernet 0/0
Ip Address 192.168.3.1 255.255.255.0
No Shutdown
Exit
Ip Route 192.168.1.0 255.255.255.0 10.0.0.5

Ip Address 10.0.0.5 255.255.255.252

No Shutdown

Exit

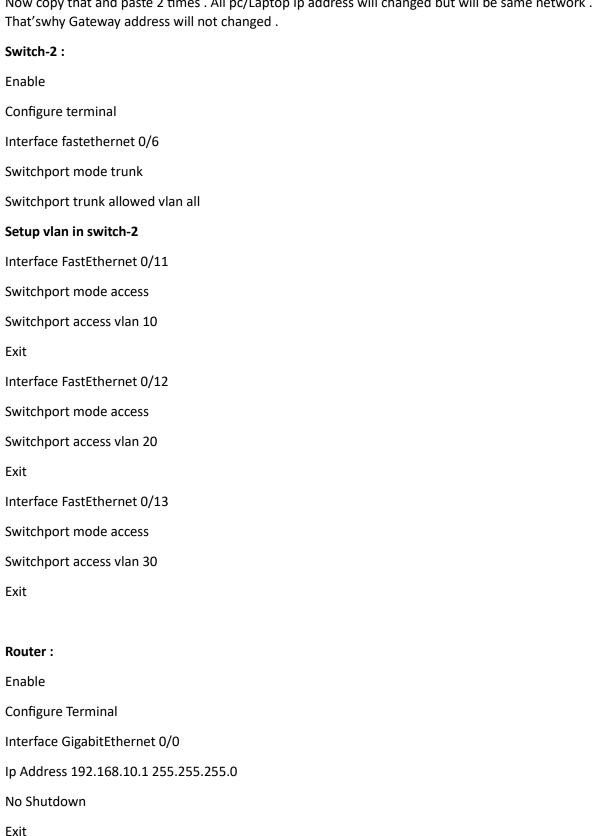
Switch-1

Inter vlan Routing

Enable

Configure terminal
Vlan 10
Name Group-A
Exit
Vlan 20
Name Group-B
Exit
Vlan 30
Name Group-C
Exit
Interface fastethernet 0/1
Switchport mode access
Switchport access vlan 10
Exit
Interface fastethernet 0/2
Switchport mode access
Switchport access vlan 20
Exit
Interface fastethernet 0/3
Switchport mode access
Switchport access vlan 30
Exit
Interface fastethernet 0/5
Switchport mode trunk
Switchport trunk allowed vlan all

Now copy that and paste 2 times. All pc/Laptop Ip address will changed but will be same network.



Interface GigabitEthernet 0/1
Ip Address 192.168.20.1 255.255.255.0
No Shutdown
Exit
Interface GigabitEthernet 0/2
Ip Address 192.168.30.1 255.255.255.0
No Shutdown
Exit
For seeing vlan:
Show Vlan brief
For seeing trunk port :
Show interfaces trunk
For seeing Ip:
Show ip interfaces breif
IP Remove Command :
interface FastEthernet 0/1
no ip address
Ip Route remove command:
No Ip Route 192.168.1.0 255.255.255.0 10.0.0.5