



//SET static IPs to PCs as shown:

```

SW01(config) #vlan 100
              #name HR
              #vlan 200
              #name SALES

SW01(config) #interface fa 0/2
              #switchport mode access
              #switchport access vlan 100
SW01(config) #interface fa 0/3
              #switchport mode access
              #switchport access vlan 200

```

//SIMILAR CONFIGURATION ON SW02

//Now, configure trunk ports on both switches at fa 0/1

```

SW01(config) #interface fa 0/1
              #switchport trunk encapsulation dot1Q // required in older versions of L3 switch
              #switchport mode trunk

```

```

#switchport trunk allowed vlan 100,200
#do wr

SW02(config) #interface fa 0/1
#switchport mode trunk
#switchport trunk allowed vlan 100,200
#do wr

//Now, create SVIs in L3 switch
SW01(config) #interface vlan 100
#ip address 192.168.1.254 255.255.255.0
#no shutdown
#exit
SW02(config) #interface vlan 200
#ip address 192.168.2.254 255.255.255.0
#no shutdown
#exit

//Now, enable IP routing in L3 switch
SW01(config) #ip routing
#do wr

```

Now, different VLANs must be PINGable.

Again to make traffic routable to RTR01, configure interface fa 0/24 of SW01 and interface fa 0/0 of RTR01 and provide route [static route in this case].

```

RTR01(config) #interface fa 0/0
#ip address 10.10.100.2 255.255.255.252
#description Connection To/From SVI
#no shutdown

SW01(config) #interface fa 0/24
#ip ?
//There is no option for address. Why is that?? Becoz this interface is still in layer 2 mode. Let's put it in
layer 3 mode.
#no switchport
#ip ?

//Now, we have address option, along with other options
#ip address 10.10.100.1 255.255.255.252
#exit

//Now, configure default route on switch
SW01(config) #ip routing
#ip route 0.0.0.0 0.0.0.0 10.10.100.2

```

```
//Also, static route on RTR01
RTR01(config) #ip route 0.0.0.0 0.0.0.0 10.10.100.1
               #exit
               #wr
```

NOW, Router should be PINGable from PC.