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**Welcome  
To  
Network for you  
Inter-Vlan Routing**



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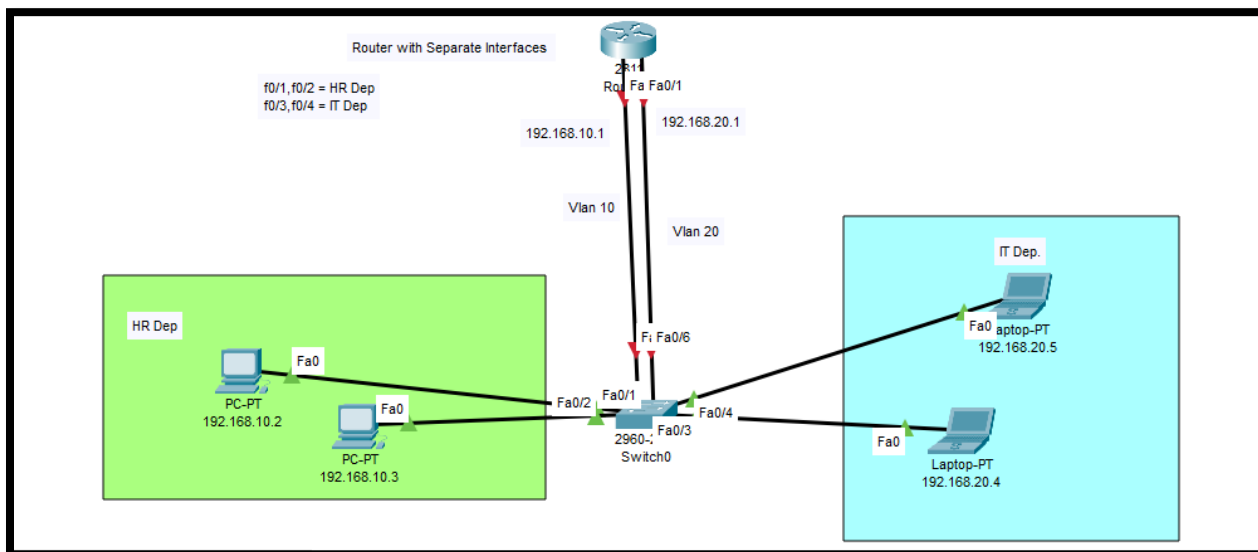
VLAN as we know different VLAN cannot communicate but with the help of Inter VLAN we can make communication between different VLAN.

Inter VLAN routing as a process of forwarding network traffic from one VLAN to another VLAN using a router or Layer 3 device.

We can use 3 different options for Inter VLAN Routing method

1. Router with Separate Interfaces
2. Router on a Stick
3. Layer 3 Switch

### Router with Separate Interfaces:



SW1 Configuration:	R1 Configuration:
<pre> en config t hostname SW1  vlan 10 name HR  vlan 20 name IT </pre>	<pre> en config t hostname R1 int f0/0 ip add 192.168.10.1 255.255.255.0 no sh </pre>

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```
int range f0/1-2
switchport access vlan 10
switchport mode access
```

```
int f0/5
```

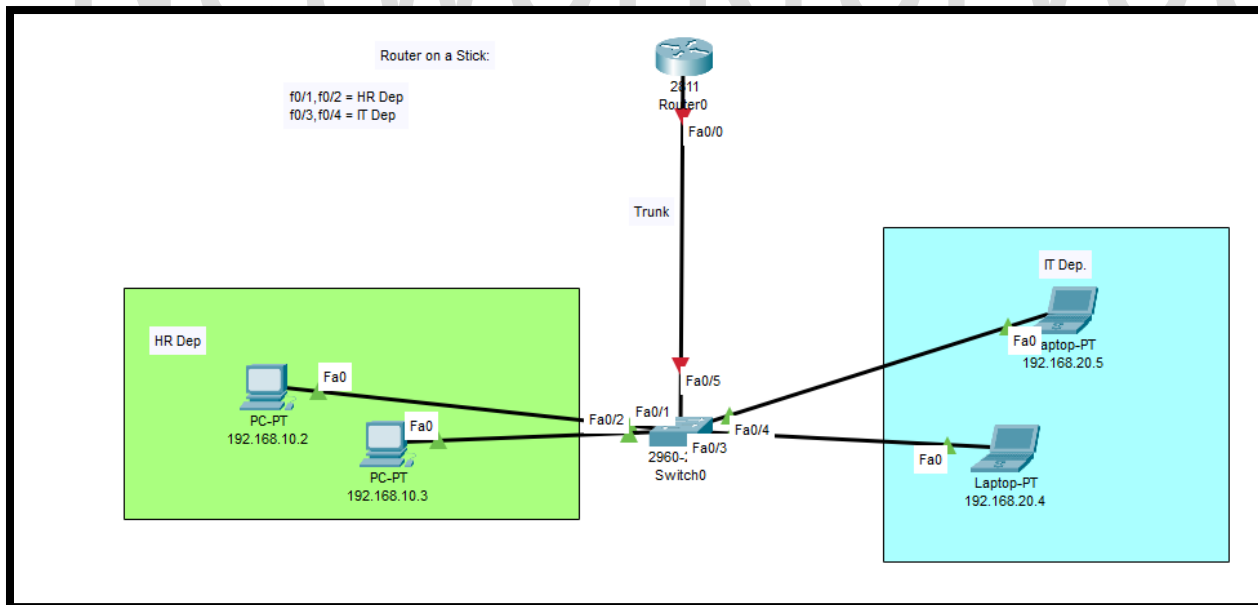
```
switchport access vlan 10
switchport mode access
```

```
int range f0/3-4
switchport access vlan 20
switchport mode access
```

```
int f0/6
switchport access vlan 20
switchport mode access
```

```
int f0/1
ip add 192.168.20.1 255.255.255.0
no sh
```

## Router on a Stick:



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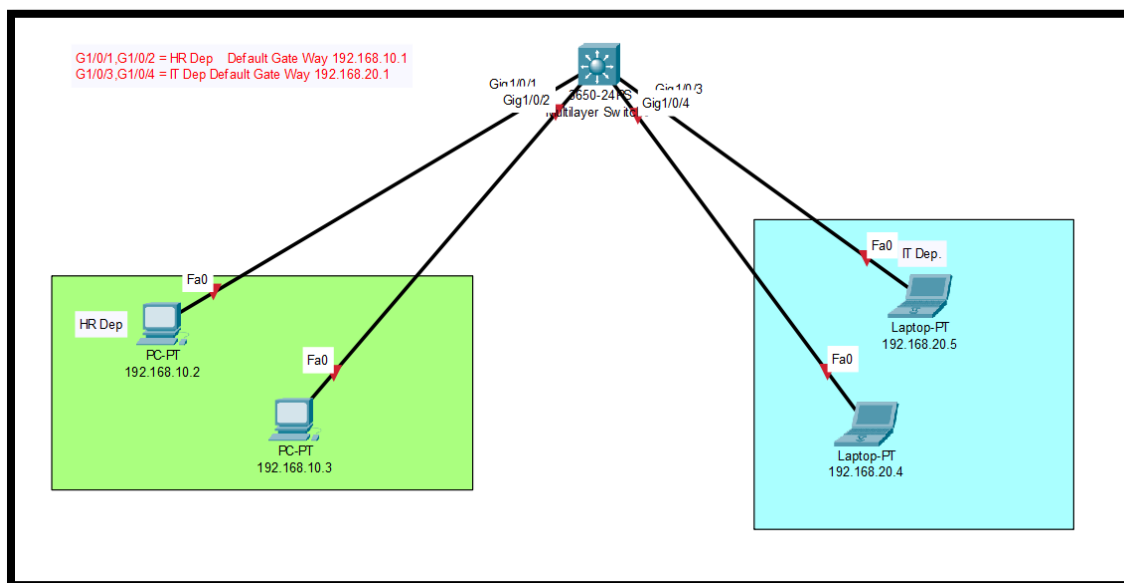
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SW1 Configuration:	R1 Configuraiton:
<pre>en config t hostname SW1  vlan 10 name HR  vlan 20 name IT  int range f0/1-2 switchport access vlan 10 switchport mode access  int range f0/3-4 switchport access vlan 20 switchport mode access  int f0/5 switchport mode trunk</pre>	<pre>en config t hostname R1 int f0/0 no sh  int f0/0.1 encapsulation dot1q 10 ip add 192.168.10.1 255.255.255.0  int f0/0.2 encapsulation dot1q 20 ip add 192.168.20.1 255.255.255.0</pre>

### Layer 3 Switch (SVI):



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Basic Configuration on Layer 3 Switch	Switch Virtual Interface Configuration:
<pre>en config t hostname Multi_Switch vlan 10 name HR  vlan 20 name IT  int range g1/0/1-2 switchport access vlan 10 switchport mode access  int range g1/0/3-4 switchport access vlan 20 switchport mode access</pre>	<pre>Ip routing ----- This is use to enable Routing in switch  int vlan 10 ip add 192.168.10.1 255.255.255.0 no sh  int vlan 20 ip add 192.168.20.1 255.255.255.0 no sh</pre>

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