

## **IP Subnetting in Cisco Packet Tracer**

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Course Code: Data Communication and Computer Networking

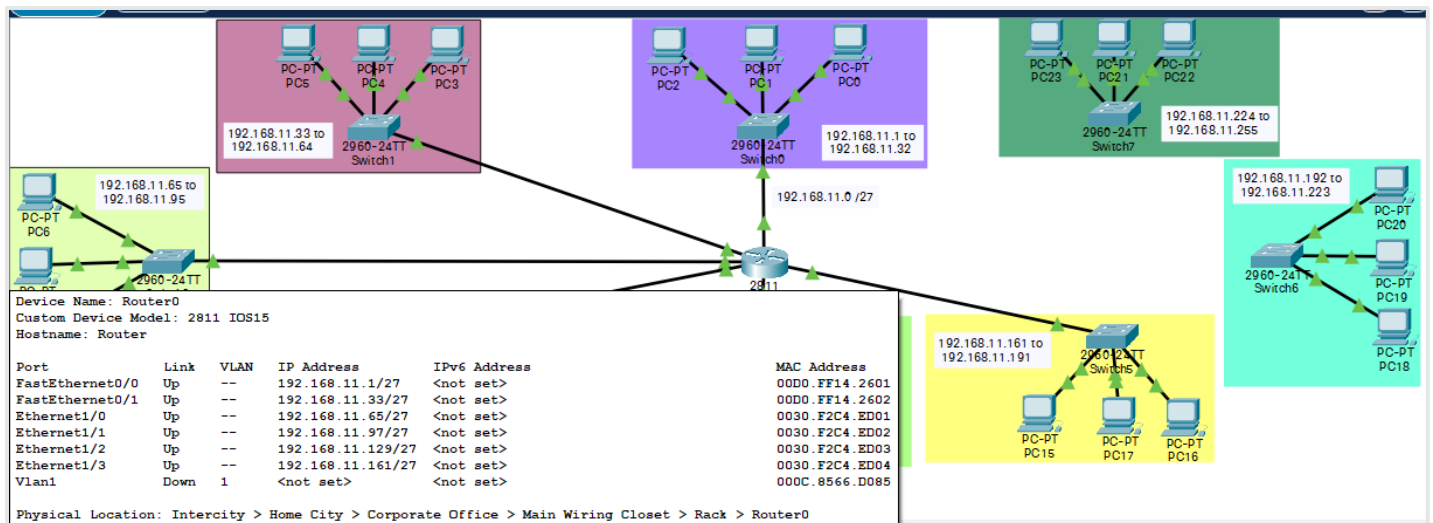
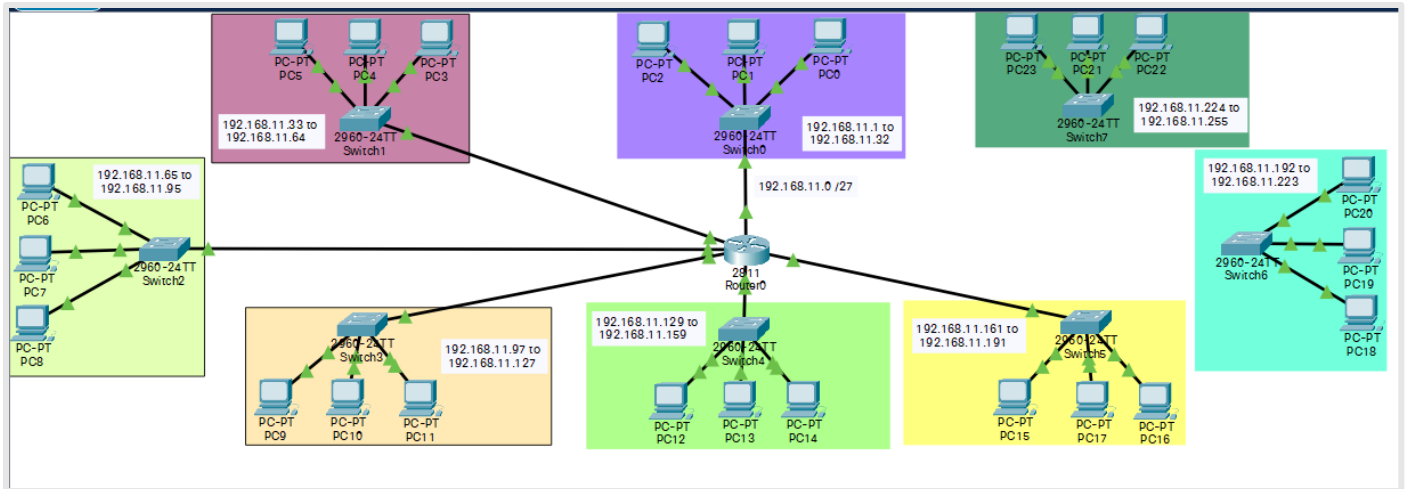
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## Packet Tracer Implementation

Create subnets of IP: 192.168.11.0 /27  
Attach 3 PCs per network

Implement the scenario on cisco packet tracer



### **Subnet-1**

```
Router>
Router>enable
Router#config ter
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fastethernet0/0
Router(config-if)#ip address 192.168.11.0 255.255.255.224
Bad mask /27 for address 192.168.11.0
Router(config-if)#ip address 192.168.11.1 255.255.255.224
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)#exit
```

### **Subnet-2**

```
Router(config)#interface fastethernet0/1
Router(config-if)#ip address 192.168.11.33 255.255.255.224
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

Router(config-if)#exit
```

### **Subnet-3**

```
Router(config)#interface Eth1/0
Router(config-if)#ip address 192.168.11.65 255.255.255.224
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface Ethernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/0, changed state to up

Router(config-if)#exit
```

#### **Subnet-4**

```
Router(config)#interface Eth1/1
Router(config-if)#ip address 192.168.11.97 255.255.255.224
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface Ethernet1/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/1, changed state to up

Router(config-if)#exit
```

#### **Subnet-5**

```
Router(config)#interface Eth1/2
Router(config-if)#ip address 192.168.11.129 255.255.255.224
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface Ethernet1/2, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/2, changed state to up

Router(config-if)#exit
```

#### **Subnet-6**

```
Router(config)#interface Eth1/3
Router(config-if)#ip address 192.168.11.161 255.255.255.224
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface Ethernet1/3, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/3, changed state to up

Router(config-if)#exit
```

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