

Subnetting

1's	Subnet Mask	0's	Block Size
0	.0	8	256
1	.128	7	128
2	.192	6	64
3	.224	5	32
4	.240	4	16
5	.248	3	8
6	.252	2	4
7	.254	1	2
8	.255	0	1

```
Router(config-if)#int fa 0/0.1
```

```
Router(config-subif)#
```

```
%LINK-5-CHANGED: Interface FastEthernet0/0.1, changed state to up
```

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.1, changed state to up
```

```
encapsulation dot1q 2
```

```
Router(config-subif)#ip address 192.168.1.1 255.255.255.128
```

```
Router(config-subif)#ip helper-address 192.168.100.2
```

```
Router(config-subif)#exit
```

```
Router(config)#int fa 0/0.2
```

```
Router(config-subif)#
```

```
%LINK-5-CHANGED: Interface FastEthernet0/0.2, changed state to up
```

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.2, changed state to up
```

encapsulation dot1q 3

Router(config-subif)#ip address 192.168.1.129 255.255.255.128

Router(config-subif)#ip helper-address 192.168.100.2

Router(config-subif)#exit