

1- After configuring sub-interfaces:

```
R1#sh ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       o - ODR, P - periodic downloaded static route

Gateway of last resort is not set

C    20.0.0.0/8 is directly connected, FastEthernet0/0.20
C    10.0.0.0/8 is directly connected, FastEthernet0/0.10
```

```
R1#sh ip inter bri
Interface      IP-Address      OK? Method Status      Protocol
FastEthernet0/0      unassigned      YES manual up          up
FastEthernet0/0.10    10.1.1.2        YES manual up          up
FastEthernet0/0.20    20.1.1.2        YES manual up          up
Serial0/0          12.1.1.1        YES NVRAM  down        down
FastEthernet0/1      unassigned      YES manual up          down
```

2- To remove sub-interfaces follow the following commands.

```
R1(config)#no inter f0/0.10
Not all config may be removed and may reappear after reactivating the sub-interface
```

```
R1(config)#no inter f0/0.20
Not all config may be removed and may reappear after reactivating the sub-interface
R1(config)#
```

```
R1#sh ip inter bri
Interface      IP-Address      OK? Method Status      Protocol
FastEthernet0/0      unassigned      YES manual up          up
FastEthernet0/0.10    unassigned      YES manual deleted  down
FastEthernet0/0.20    unassigned      YES manual deleted  down
Serial0/0          12.1.1.1        YES NVRAM  down        down
FastEthernet0/1      unassigned      YES manual up          down
R1#
```

```
R1#sh ip rou
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
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       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
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Gateway of last resort is not set
```

3- Save your configuration and restart your router.

```
R1#reload
System configuration has been modified. Save? [yes/no]: ye
Building configuration...
[OK]
Proceed with reload? [confirm]

System Bootstrap, Version 12.2(8r) [cmong 8r], RELEASE SOFTWARE (fc1)
Copyright (c) 2003 by cisco Systems, Inc.
C2600 platform with 131072 Kbytes of main memory

program load complete, entry point: 0x80008000, size: 0x8da0c4
Self decompressing the image : #####
##### [OK]
```

4- Then check your interfaces:

```
R1#sh ip inter bri
Interface      IP-Address      OK? Method Status      Protocol
FastEthernet0/0      unassigned      YES NVRAM  up          up
Serial0/0          12.1.1.1        YES NVRAM  down        down
FastEthernet0/1      unassigned      YES NVRAM  up          down
R1#
```