

Cisco router command for adding two network:

how to do it in a cisco device:

- 1)first give the ip of the routers
- 2)two network ip local will be different network
- 3)and the two router external network will be in the same network

so there are different network now we add the two router with a the serial interface to do that we have to add a device two different device.

1)first giving ip to the router1 lan and also the serial interface ip

```
Router>enable
```

```
Router#configure terminal
```

```
Enter configuration commands, one per line. End with CNTL/Z.
```

```
Router(config)#do show ip interface brief
```

```
Interface IP-Address OK? Method Status Protocol
```

```
GigabitEthernet0/0 unassigned YES unset administratively down down
```

```
GigabitEthernet0/1 unassigned YES unset administratively down down
```

```
GigabitEthernet0/2 unassigned YES unset administratively down down
```

```
Serial0/3/0 10.0.0.1 YES manual administratively down down
```

```
Serial0/3/1 unassigned YES unset administratively down down
```

```
Vlan1 unassigned YES unset administratively down down
```

```
Router(config)#interface GigabitEthernet0/0
```

```
Router(config-if)#ip address 192.168.0.1 255.255.255.0
```

```
Router(config-if)#no shutdown
```

```
Router(config-if)#
```

```
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up
```

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up
```

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

```
Router(config)#do show ip interface brief
```

```
Interface IP-Address OK? Method Status Protocol
```

```
GigabitEthernet0/0 192.168.0.1 YES manual up up
GigabitEthernet0/1 unassigned YES unset administratively down down
GigabitEthernet0/2 unassigned YES unset administratively down down
Serial0/3/0 10.0.0.1 YES manual administratively down down
Serial0/3/1 unassigned YES unset administratively down down
Vlan1 unassigned YES unset administratively down down
Router(config)#interface Serial0/3/0
Router(config-if)#ip address 10.0.0.1 255.0.0.0
Router(config-if)#no shutdown
```

```
%LINK-5-CHANGED: Interface Serial0/3/0, changed state to down
Router(config-if)#
```

2) giving ip to the second router nad the serial interface

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname R2
R2(config)#do show ip interface brief
Interface IP-Address OK? Method Status Protocol
GigabitEthernet0/0 unassigned YES unset administratively down down
GigabitEthernet0/1 unassigned YES unset administratively down down
GigabitEthernet0/2 unassigned YES unset administratively down down
Serial0/3/0 unassigned YES unset administratively down down
Serial0/3/1 unassigned YES unset administratively down down
Vlan1 unassigned YES unset administratively down down
R2(config)#interface GigabitEthernet0/0
R2(config-if)#ip address 192.168.1.1 255.255.255.0
R2(config-if)#no shutdown
```

```
R2(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up
```

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up
```

```
R2(config-if)#exit
R2(config)#interface Serial0/3/1
R2(config-if)#ip address 10.0.0.2 255.0.0.0
```

```
R2(config-if)#no shutdown
```

```
R2(config-if)#
```

```
%LINK-5-CHANGED: Interface Serial0/3/1, changed state to up
```

```
R2(config-if)#
```

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/3/1, changed state to up
```