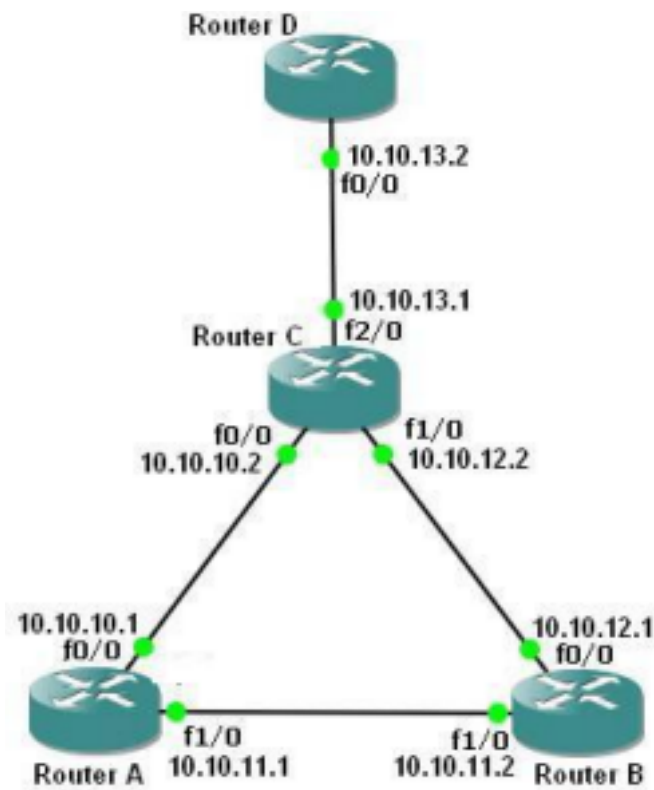


# Cisco Single Area OSPF Configuration

**OSPF (open shortest path first)** protocol is a well-know routing protocol that is widely used today. To configure a network for OSPF properly there are some steps. For basic OSPF configuration, the followin scenario will be a good example.



*Single Area OSPF Configuration Topology*

First of all, we will configure the routers' interfaces. After that we will configure the ospf as our routing protocol. Here we assume that all the interfaces including loopback interfaces, their speed, duplex and descriptions have been configured.

To configure OSPF, follow the below steps:

**1)** In the router A, enable OSPF with process number 1. Then, give the ospf interface addresses with their wildcard masks.

```
A(config)# router ospf 1
A(config-router)# network 10.10.10.0 0.0.0.255 area 0
A(config-router)# network 10.10.11.0 0.0.0.255 area 0
A(config-router)# end
A # copy running-config startup-config
```

**2)** In the router B, enable OSPF with process number 1. Then, give the ospf interface addresses with their wildcard masks.

```
B(config)# router ospf 1
B(config-router)# network 10.10.11.0 0.0.0.255 area 0
B(config-router)# network 10.10.12.0 0.0.0.255 area 0
```

```
B(config-router)# exit  
B # copy running-config startup-config
```

3) In the router C, enable OSPF with process number 1. Then, give the ospf interface addresses with their wildcard masks.

```
C(config)# router ospf 1  
C(config-router)# network 10.10.10.0 0.0.0.255 area 0  
C(config-router)# network 10.10.12.0 0.0.0.255 area 0  
C(config-router)# network 10.10.13.0 0.0.0.255 area 0  
C(config-router)# end  
C# copy running-config startup-config
```