



Router1:-

Router>EN

Router#CONF T

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

Router(config)#int se 0/1/0

Router(config-if)#ip add 10.0.0.1 255.0.0.0

Router(config-if)#no shut

%LINK-5-CHANGED: Interface Serial0/1/0, changed state to down

Router(config-if)#exit

Router(config)#

Router(config)#int gig 0/0/0

Router(config-if)#ip add 20.0.0.1 255.0.0.0

Router(config-if)#no shut

Router(config-if)#

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

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

Router(config-if)#exit

Router#conf t

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

```
Router(config)#route ospf 10
Router(config-router)#network 10.0.0.0 0.255.255.255 area 0
Router(config-router)#
Router(config-router)#network 20.0.0.0 0.255.255.255 area 0
Router(config-router)#exit
Router(config)#
00:10:57: %OSPF-5-ADJCHG: Process 10, Nbr 30.0.0.1 on Serial0/1/0 from LOADING to
FULL, Loading Done
```

Router2:-

```
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int se 0/1/0
Router(config-if)#ip add 10.0.0.2 255.0.0.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up

Router(config-if)#exit
Router(config)#int gig 0/0/0
Router(config-if)#ip add 30.0.0.1 255.0.0.0
Router(config-if)#no shut

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

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

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

Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#route ospf 10
Router(config-router)#network 10.0.0.0 0.255.255.255 area 0
Router(config-router)#network 30.0.0.0 0.255.255.255 area 0
Router(config-router)#exit
```

```
Router(config)#
Router(config)#
00:10:48: %OSPF-5-ADJCHG: Process 10, Nbr 20.0.0.1 on Serial0/1/0 from LOADING to
FULL, Loading Done
eit
^
% Invalid input detected at '^' marker.
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

```
Router#sh ip route
Codes: L - local, 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, E - EGP
i - IS-IS, 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

```
10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C 10.0.0.0/8 is directly connected, Serial0/1/0
L 10.0.0.2/32 is directly connected, Serial0/1/0
O 20.0.0.0/8 [110/65] via 10.0.0.1, 00:00:06, Serial0/1/0
30.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C 30.0.0.0/8 is directly connected, GigabitEthernet0/0/0
L 30.0.0.1/32 is directly connected, GigabitEthernet0/0/0
```

```
Router#
```