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**Welcome
To
Network for you
OSPF Address
Family**



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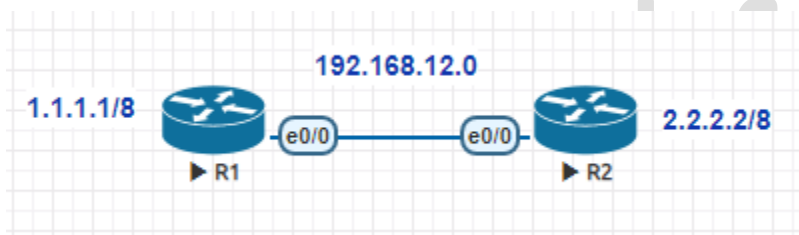
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OSPF Address Family:

- OSPF has seen quite some changes since it was introduced somewhere in the 1980s.
- Open Shortest Path First version 2 of IPv4 and Open Shortest Path First version 3 for IPv6.
- Many enterprises use Open Shortest Path First V2 for their internal IPv4 routing protocol.
- OSPFv3 with address family support has been added since IOS 15.1(3)S and 15.2(1)T.
- The Open Shortest Path First Version 3 (OSPFv3) runs per-link rather than per-subnet.
- OSPFv3 address families feature enables both IPv4 and IPv6 unicast traffic to be supported.
- OSPFv3 with the addresses family (AF) unifies OSPF configuration for both IPv4 and IPv6.
- OSPFv3 messages are sent over IPv6 and therefore requires that IPv6 routing is enabled.
- After configuring the OSPFv3 address families, the show ospfv3 command should use.
- Enter IPv4 address family configuration mode using command address-family ipv4 unicast.
- Open Shortest Path First Version 3 (OSPFv3) can be configured for either IPv4 or IPv6.
- The command 'address-family' specifies which one of them will be configured IPV4 or IPV6.

Lab Time:



R1 Configuration	R2 Configuration
<pre>en config t hostname R1 int e0/0 ip add 192.168.12.1 255.255.255.0 no sh int lo 0 ip add 1.1.1.1 255.0.0.0 !R1 OSPF V3 Configuration ipv6 unicast-routing router ospfv3 1</pre>	<pre>en config t hostname R2 int e0/0 ip add 192.168.12.2 255.255.255.0 no sh int lo 0 ip add 2.2.2.2 255.0.0.0 !R2 OSPF V3 Configuration ipv6 unicast-routing router ospfv3 1</pre>

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```
address-family ipv4 unicast
```

```
int e0/0  
ipv6 enable  
ospfv3 1 ipv4 area 0
```

```
int lo 0  
ipv6 enable  
ospfv3 1 ipv4 area 0
```

```
address-family ipv4 unicast
```

```
int e0/0  
ipv6 enable  
ospfv3 1 ipv4 area 0
```

```
int lo 0  
ipv6 enable  
ospfv3 1 ipv4 area 0
```

Verification Commands

```
show ip route ospfv3  
show ospfv3 neighbor  
show ospfv3 database  
show ospfv3 interface brief  
show ospfv3 ipv4 database  
show ospfv3 ipv4 interface brief  
show ospfv3 ipv4 interface e0/0  
show ospfv3 ipv4 neighbor  
show ospfv3 ipv4 neighbor detail
```

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