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**Welcome
To
Network for you
Passive Interfaces**



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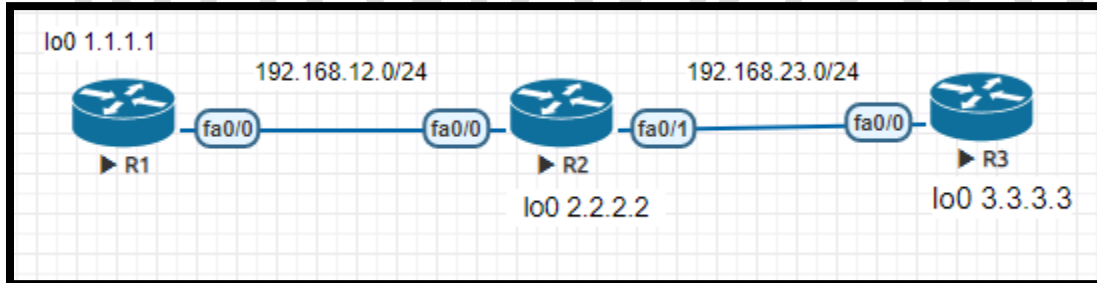
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Passive Interfaces:

- When you use the network command in OSPF, two things will happen.
- All interfaces that have a network that falls within the range of the network command will be advertised in OSPF.
- OSPF hello packets are sent on these interfaces.
- Sometimes it's undesirable to send OSPF hello packets on certain interfaces like ISP side or in Endpoints.
- So to stop hello packets we use Passive Interfaces.
- Passive-Interface command is used to disable sending updates on specific interface.
- Mostly the passive-interface command restricts the outgoing advertisements only.
- Individually use no passive-interface command on interfaces wants to send updates.
- Passive-interface command stops both outgoing & incoming routing updates.
- Command causes Router to stop sending & receiving hello packets on interface.
- The passive-interface command stops sending the outgoing hello packets.
- The Router cannot form any neighbor relationship via the passive interface.

Lab on Passive Interfaces:



R1 Configuration:	R2 Configuration:
<pre>en config t hostname R1 int f0/0 ip add 192.168.12.1 255.255.255.0 no sh int lo0 ip add 1.1.1.1 255.0.0.0</pre>	<pre>en config t hostname R2 int f0/0 ip add 192.168.12.2 255.255.255.0 no sh int lo0 ip add 2.2.2.2 255.0.0.0</pre>

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```
router ospf 1  
router-id 1.1.1.1
```

```
int f0/0  
ip ospf 1 area 0
```

```
int lo0  
ip ospf 1 area 0
```

```
int f0/1  
ip add 192.168.23.1 255.255.255.0  
no sh
```

```
router ospf 1  
router-id 2.2.2.2
```

```
int f0/0  
ip ospf 1 area 0
```

```
int f0/1  
ip ospf 1 area 0
```

```
router ospf 1
```

```
passive-interface f0/1
```

R3 Configuration:

```
en  
config t  
hostname R3
```

```
int f0/0  
ip add 192.168.23.2 255.255.255.0  
no sh
```

```
int lo0  
ip add 3.3.3.3 255.0.0.0
```

```
router ospf 1  
int lo0  
ip ospf 1 area 0
```

```
int f0/0  
ip ospf 1 area 0
```

Passive Interface

```
passive-interface f0/1
```

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```
R2(config)#router ospf 1
R2(config-router)#pa
R2(config-router)#passive-interface f0/1
R2(config-router)#
*Mar  1 00:40:18.639: %OSPF-5-ADJCHG: Process 1, Nbr 3.3.3.3 on FastEthernet0/1
from FULL to DOWN, Neighbor Down: Interface down or detached
R2(config-router)#
R2(config-router)#
```

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