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**Welcome
To
Network for you
Route Tagging**



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What is Route tagging?

- **When you configure multipoint redistribution it's a good idea to use route tagging to prevent advertising something from routing protocol "A" into "B" and back into "A".**
- Route tagging is a technique used in computer networking to identify and manage routes.
- A route tag is a 32-bit value that is attached to a route.
- The route tag can be used to filter routes, to apply administrative policies to routes, or to prevent routes from being re-distributed into a routing domain.
- Route tagging is supported by most major IP-based routing protocols, including OSPF, EIGRP, and BGP.

Here are some of the benefits of using route tagging:

Route filtering:

- Route tagging can be used to filter routes based on their tag value.
- This can be used to prevent certain routes from being advertised to other routers, or to ensure that only certain routes are advertised to other routers.

Administrative policies:

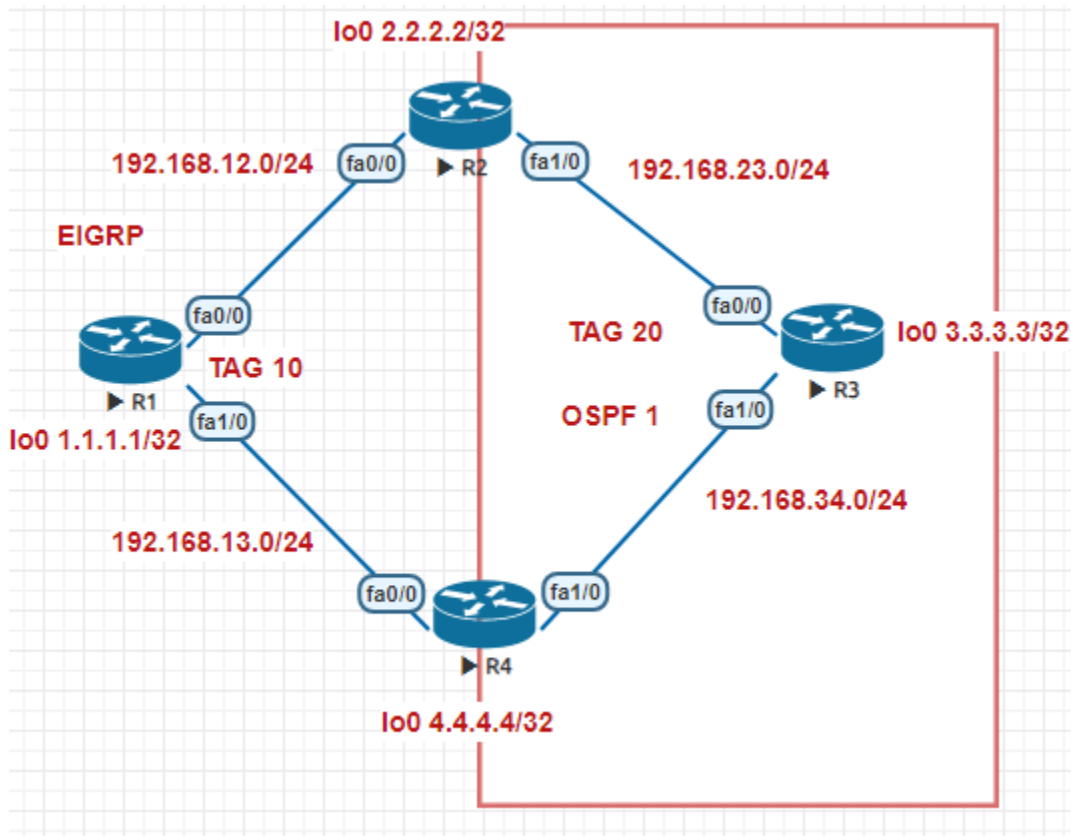
- Route tagging can be used to apply administrative policies to routes.
- For example, you could tag all routes that are used for voice traffic with a specific tag value.
- This would allow you to apply specific policies to these routes, such as ensuring that they have a high priority in routing calculations.

Preventing route re-distribution:

- Route tagging can be used to prevent routes from being re-distributed into a routing domain.
- This can be useful to prevent routing loops, or to ensure that routes are not advertised to certain routers.



Lab Time:



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 lo 0 ip add 1.1.1.1 255.255.255.255</pre>	<pre>en config t hostname R2 int f0/0 ip add 192.168.12.2 255.255.255.0 no sh int f1/0 ip add 192.168.23.2 255.255.255.0</pre>

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```
int f1/0
ip add 192.168.13.1 255.255.255.0
no sh

router eigrp 100
network 0.0.0.0 255.255.255.255
no auto-summary
```

```
no sh

int lo 0
ip add 2.2.2.2 255.255.255.255

router eigrp 100
network 192.168.12.2 0.0.0.0
no auto-summary

router ospf 1
network 2.2.2.2 0.0.0.0 area 0
network 192.168.23.2 0.0.0.0 area 0
```

```
route-map OSPF->EIGRP deny 5
match tag 20
exit
route-map OSPF->EIGRP permit 10
set tag 10

route-map EIGRP->OSPF deny 5
match tag 10
exit
route-map EIGRP->OSPF permit 10
set tag 20
```

```
router eigrp 100
redistribute ospf 1 metric 1000 1000 255 1 1500 route-
map OSPF->EIGRP
exit

router ospf 1
redistribute eigrp 100 subnets route-map EIGRP->OSPF
```

R3 Configuration:

```
en
config t
hostname R3
```

R4 Configuration:

```
en
config t
hostname R4
```

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```
int f0/0
ip add 192.168.23.3 255.255.255.0
no sh

int f1/0
ip add 192.168.34.3 255.255.255.0
no sh

int lo 0
ip add 3.3.3.3 255.255.255.255

router ospf 1
network 0.0.0.0 255.255.255.255 area 0
```

```
int f0/0
ip add 192.168.13.4 255.255.255.0
no sh

int f1/0
ip add 192.168.34.4 255.255.255.0
no sh

int lo 0
ip add 4.4.4.4 255.255.255.255

router eigrp 100
network 192.168.13.4 0.0.0.0
no auto-summary

router ospf 1
network 4.4.4.4 0.0.0.0 area 0
network 192.168.34.4 0.0.0.0 area 0

router eigrp 100
redistribute ospf 1 metric 1000 1000 255 1 1500 route-
map OSPF->EIGRP

route-map OSPF->EIGRP deny 5
match tag 20
exit
route-map OSPF->EIGRP permit 10
set tag 10

router ospf 1
redistribute eigrp 100 subnets route-map EIGRP->OSPF

exit
route-map EIGRP->OSPF deny 5
match tag 10
exit
route-map EIGRP->OSPF permit 10
set tag 20
```

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