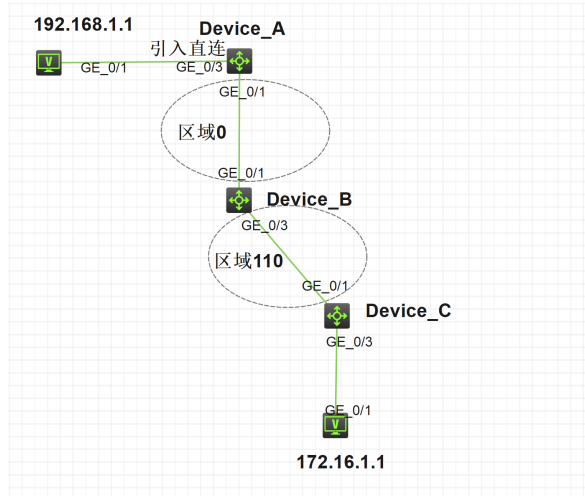


知 使用ospf database-filter过滤LSA不生效

OSPF zhiliao_vMYfJK 4天前 发表

组网及说明



问题描述

使用ospf database-filter 过滤LSA不生效问题

过程分析

1、Device_A ospf 1 area 0引入直连后，Device_A、Device_B和Device_C的链路状态数据库中存在 AS External Database

Type	LinkState ID	AdvRouter	Age	Len	Sequence	Metric
External	192.168.1.0	1.1.1.1	1345	36	80000001	1
External	10.1.13.0	1.1.1.1	1345	36	80000001	1
External	1.1.1.1	1.1.1.1	1345	36	80000001	1

2、在Device_B的G1/0/3配置 ospf database-filter ase

```
interface GigabitEthernet1/0/3
port link-mode route
combo enable fiber
ip address 10.1.35.3 255.255.255.0
ospf database-filter ase
```

3、分别在Device_A、Device_B和Device_C的链路状态数据库中查看192.168.1.0的5类LSA信息依然存在

且192.168.1.1可以ping通172.16.1.1

4、重启Device_C的OSPF进程后查看链路状态数据库中的192.168.1.0外部信息消失

```
<Device_C>reset ospf process
Reset OSPF process? [Y/N]:y
<H3C>:%Nov 13 23:04:32:428 2024 H3C OSPF/5/OSPF_NBR_CHG_REASON: OSPF 1 Area 0.0.0.1
10 Router 5.5.5.5(GE1/0/1) CPU usage: 1%, IfMTU: 1500, Neighbor address: 10.1.35.3, NbrID:10.1.35.
3 changed from Full to DOWN because the OSPF process was reset at 2024-11-13 23:04:32:428.
<Device_C>dis ospf lsdb
```

```
OSPF Process 1 with Router ID 5.5.5.5
Link State Database
```

```
Area: 0.0.0.110
Type LinkState ID AdvRouter Age Len Sequence Metric
Router 10.1.35.3 10.1.35.3 20 36 8000000C 0
Router 5.5.5.5 5.5.5.5 17 48 8000000D 0
Network 10.1.35.3 10.1.35.3 16 32 80000002 0
Sum-Net 10.1.13.0 10.1.35.3 471 28 80000001 1
Sum-Asbr 1.1.1.1 10.1.35.3 339 28 80000001 1
<H3C>
<PC>ping 172.16.1.1
Ping 172.16.1.1 (172.16.1.1): 56 data bytes, press CTRL_C to break
Request time out
```

5、重启Device_C的OSPF进程后ospf database-filter ase生效，测试重启Device_B的OSPF进程不重启Device_C的OSPF进程

1) 删除Device_B的G1/0/3接口ospf database-filter ase配置不用再重启OSPF进程

```
[H3C]ping 172.16.1.1
```

```
Ping 172.16.1.1 (172.16.1.1): 56 data bytes, press CTRL_C to break
```

```
Request time out
```

```
Request time out
```

```
56 bytes from 172.16.1.1: icmp_seq=2 ttl=252 time=0.808 ms
```

```
56 bytes from 172.16.1.1: icmp_seq=3 ttl=252 time=0.728 ms
```

```
56 bytes from 172.16.1.1: icmp_seq=4 ttl=252 time=0.997 ms
```

2) 重新在Device_B的G1/0/3接口配置ospf database-filter ase，然后重启Device_B的OSPF进程不重启Device_C的OSPF进程

```
<Device_C>dis ospf lsdb //Device_C的OSPF链路数据库中依然存在192.168.1.0的外部LSA信息
```

```
OSPF Process 1 with Router ID 5.5.5.5
```

```
Link State Database
```

```
Area: 0.0.0.110
```

```
.....
```

```
AS External Database
```

Type	LinkState ID	AdvRouter	Age	Len	Sequence	Metric
External	192.168.1.0	1.1.1.1	668	36	80000002	1
External	10.1.13.0	1.1.1.1	668	36	80000002	1
External	1.1.1.1	1.1.1.1	668	36	80000002	1

解决方法

问题原因：

1、如果在配置该命令前邻居路由器就已经收到了将要进行过滤的LSA，那么配置该命令后，这些LSA仍存在于邻居路由器的LSDB中，且路由还会生效。

2、如果存在多个邻居同时发送了需要过滤的LSA，需要在其他邻居接口也配置ospf database-filter。

解决方法：重启邻居（Device_C）的OSPF进程