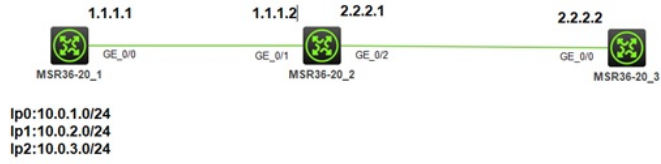


组网及说明

如图：MSR1/MSR2/MSR3建立OSPF邻居，同属于一个区域0

MSR1上将10.0.1.0/24 10.0.2.0/24 10.0.3.0/24引入到OSPF中，要求将三条路由中只引入10.0.1.0/24



## 配置步骤

### 关键配置:

```
interface GigabitEthernet0/0
port link-mode route
combo enable copper
ip address 1.1.1.1 255.255.255.0
```

```
interface LoopBack0
ip address 10.0.1.0 255.255.255.0
interface LoopBack1
ip address 10.0.2.0 255.255.255.0
interface LoopBack2
ip address 10.0.3.0 255.255.255.0
```

```
ospf 1
import-route direct
area 0.0.0.0
network 1.1.1.0 0.0.0.255
```

```
interface GigabitEthernet0/1
port link-mode route
combo enable copper
ip address 1.1.1.2 255.255.255.0
```

```
ospf 1
area 0.0.0.0
network 1.1.1.0 0.0.0.255
network 2.2.2.0 0.0.0.255
```

配置完成后, 可以看到MSR1上有三个5类LSA  
[H3C]display ospf lsdb ase

```
OSPF Process 1 with Router ID 1.1.1.1
Link State Database
```

```
Type : External
LS ID : 10.0.2.0
Adv Rtr : 1.1.1.1
LS age : 425
Len : 36
Options : O E
Seq# : 80000001
Checksum : 0x84fb
Net Mask : 255.255.255.0
TOS 0 Metric: 1
E Type : 2
Forwarding Address : 0.0.0.0
Tag : 1
```

```
Type : External
LS ID : 10.0.3.0
Adv Rtr : 1.1.1.1
LS age : 425
Len : 36
Options : O E
Seq# : 80000001
Checksum : 0x7906
Net Mask : 255.255.255.0
TOS 0 Metric: 1
```

```
E Type : 2
Forwarding Address : 0.0.0.0
Tag : 1
```

### 配置关键点

```
ospf 1
import-route direct
filter-policy 3000 export
area 0.0.0.0
network 1.1.1.0 0.0.0.255
Options : O E
acl advanced 3000
rule 0 permit ip source 10.0.1.0 0.0.0.255
Net Mask : 255.255.255.0
TOS 0 Metric: 1
E Type : 2
Forwarding Address : 0.0.0.0
Tag : 1
```

在MSR上可以看到3个二类外部OSPF路由  
[H3C]dis ip routing-table

Destinations : 16    Routes : 16

Destination/Mask	Proto	Pre	Cost	NextHop	Interface
0.0.0.0/32	Direct	0	0	127.0.0.1	InLoop0
1.1.1.0/24	Direct	0	0	1.1.1.2	GE0/1
1.1.1.2/32	Direct	0	0	127.0.0.1	InLoop0
1.1.1.255/32	Direct	0	0	1.1.1.2	GE0/1
2.2.2.0/24	Direct	0	0	2.2.2.1	GE0/2
2.2.2.1/32	Direct	0	0	127.0.0.1	InLoop0
2.2.2.255/32	Direct	0	0	2.2.2.1	GE0/2
10.0.1.0/24	O_ASE2	150	1	1.1.1.1	GE0/1
10.0.2.0/24	O_ASE2	150	1	1.1.1.1	GE0/1
10.0.3.0/24	O_ASE2	150	1	1.1.1.1	GE0/1

本例在MSR1上使用filter-policy

```
ospf 1
import-route direct
filter-policy 3000 export
area 0.0.0.0
network 1.1.1.0 0.0.0.255

acl advanced 3000
rule 0 permit ip source 10.0.1.0 0.0.0.255
```

注意此种方式过滤，过滤掉了5类LSA，即MSR1上只能看到10.0.0.0/24的5类LSA  
[H3C]display ospf lsdb ase

```
OSPF Process 1 with Router ID 1.1.1.1
Link State Database
```

```
Type : External
LS ID : 10.0.1.0
Adv Rtr : 1.1.1.1
LS age : 192
```

Len : 36  
Options : O E  
Seq# : 80000001  
Checksum : 0x0#1