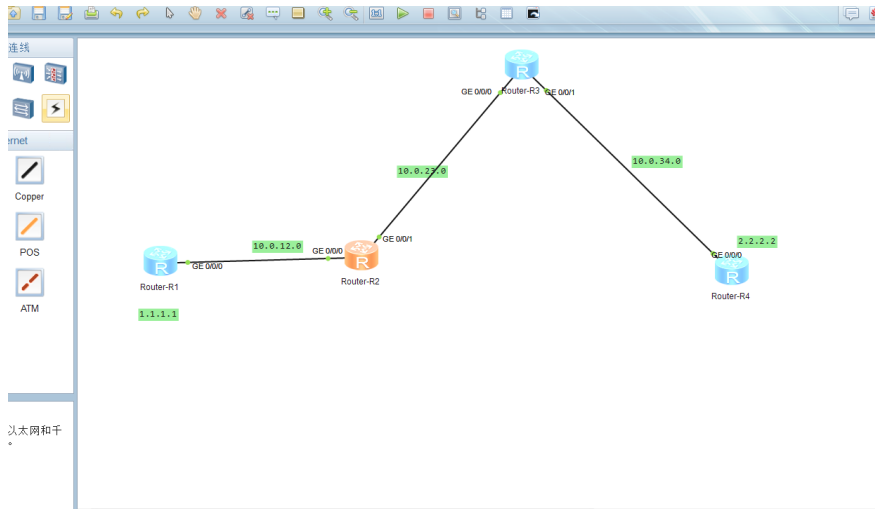


知 ospf无法引入bgp路由的问题

BGP OSPF abc123 2018-03-19 发表

组网及说明



```
R3
R1  R2  R3  R4
0/0/1 10.0.34.3/32 Direct 0 0 D 127.0.0.1 GigabitEthernet
0/0/1 127.0.0.0/8 Direct 0 0 D 127.0.0.1 InLoopBack0
127.0.0.1/32 Direct 0 0 D 127.0.0.1 InLoopBack0
<Huawei>display ip routing-table
Route Flags: R - relay, D - download to fib
-----
Routing Tables: Public
Destinations : 8 Routes : 8
Destination/Mask Proto Pre Cost Flags NextHop Interface
10.0.12.0/24 O ASE 150 1 D 10.0.23.2 GigabitEthernet
10.0.12.0/24 O ASE 150 1 D 10.0.23.2 GigabitEthernet
10.0.23.0/24 Direct 0 0 D 10.0.23.3 GigabitEthernet
10.0.23.3/32 Direct 0 0 D 127.0.0.1 GigabitEthernet
10.0.34.0/24 Direct 0 0 D 10.0.34.3 GigabitEthernet
10.0.34.3/32 Direct 0 0 D 127.0.0.1 GigabitEthernet
127.0.0.0/8 Direct 0 0 D 127.0.0.1 InLoopBack0
127.0.0.1/32 Direct 0 0 D 127.0.0.1 InLoopBack0
<Huawei>
```

```

[Huawei-ospf-100]
[Huawei-ospf-100]bgp 200
[Huawei-bgp]dis th
#
bgp 200
peer 10.0.12.1 as-number 100
peer 10.0.34.4 as-number 200
#
ipv4-family unicast
undo synchronization
network 10.0.12.0 255.255.255.0
import-route direct
import-route ospf 100
peer 10.0.12.1 enable
peer 10.0.34.4 enable
return
[Huawei-bgp]os
[Huawei-bgp]ospf 100
[Huawei-ospf-100]im
[Huawei-ospf-100]dis th
#
ospf 100
import-route direct
import-route bgp
area 0.0.0.0
network 10.0.23.0 0.0.0.255
#
return
[Huawei-ospf-100]

```

```

return
[Huawei-ospf-100]
[Huawei-ospf-100]dis
[Huawei-ospf-100]display ip ro
[Huawei-ospf-100]display ip routing-table
Route Flags: R - relay, D - download to fib
-----
Routing Tables: Public
Destinations : 9      Routes : 9

Destination/Mask    Proto    Pre  Cost    Flags NextHop         Interface
-----
1.1.1.1/32         EBGP     255  0        D    10.0.12.1          GigabitEthernet0/0/0
10.0.12.0/24       IBGP     255  0        RD   10.0.34.4          GigabitEthernet0/0/1
10.0.12.0/24       Direct   0     0        D    10.0.12.2          GigabitEthernet0/0/0
10.0.12.2/32       Direct   0     0        D    127.0.0.1          GigabitEthernet0/0/0
10.0.23.0/24       Direct   0     0        D    10.0.23.2          GigabitEthernet0/0/1
10.0.23.2/32       Direct   0     0        D    127.0.0.1          GigabitEthernet0/0/1
10.0.34.0/24       OSPF     10    2        D    10.0.23.3          GigabitEthernet0/0/1
127.0.0.0/8        Direct   0     0        D    127.0.0.1          InLoopBack0
127.0.0.1/32       Direct   0     0        D    127.0.0.1          InLoopBack0

```

问题描述

如图所示,R1处在bgp100, R2R4处在BGP200, R2R3R4 之间所在的网段处在ospf 100 area0中, 我现在想在R2做bgp, ospf的相互引入使得R3拥有全网所有路由, bgp, ospf配置无误, 其中2.2.2.2发布在bgp200中, 没发布在ospf中, 最后R3只有1.1.1.1没有2.2.2.2, 那么1.1.1.1和2.2.2.2在R2路由表中不都是bgp路由吗, 难道不是一起引入到ospf区域吗, 求解答

解决方法

根本原因应该是R2就没有给R3发布2.2.2.2, 因为在R2上2.2.2.2是一条迭代路由, 真实下一跳是10.0.23.3, 也就是跟R3路由直连的接口, R2和R3也是用10.0.23.0地址建立邻居的, 这样, R2计算SPF的时候, 会发现拓扑中有环路, 也就是对于2.2.2.2这条路由, 其实是R2和R3互指的, 所以不会发布2.2.2.2给R3