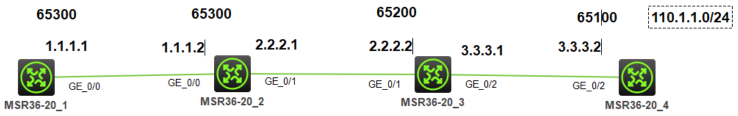
comwareV7设备通过BGP来控制替换AS号

域间策略/安全域 **孔德飞** 2021-11-17 发表

组网及说明

组网拓扑如下：

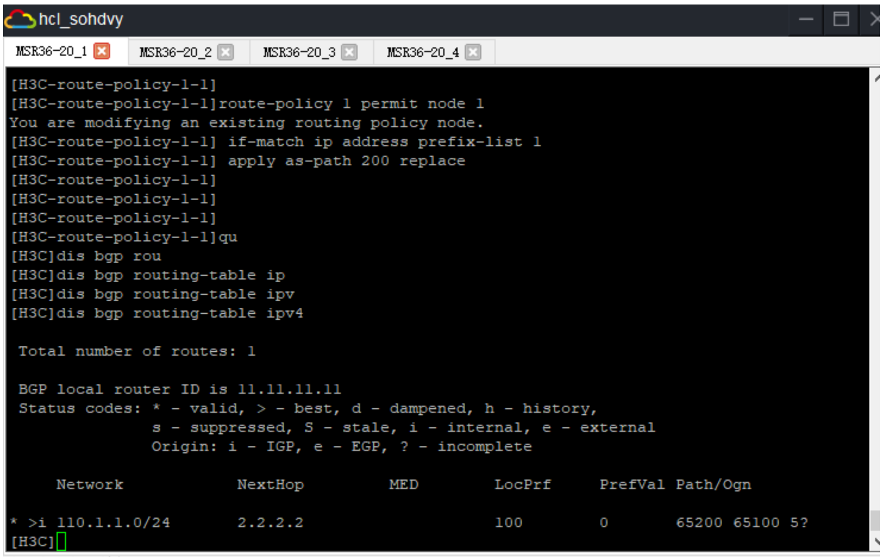
MSR1与MSR2属于AS65300，MSR3属于AS65200，MSR4属于AS65100


65300
65300
65200
65100
110.1.1.0/24
1.1.1.1
1.1.1.2
2.2.2.1
2.2.2.2
3.3.3.1
3.3.3.2
GE_0/0
GE_0/0
GE_0/1
GE_0/1
GE_0/2
GE_0/2
MSR36-20_1
MSR36-20_2
MSR36-20_3
MSR36-20_4

问题描述

现在需要将MSR4的110.1.1.0/24传递到MSR1，并且将原始AS路径“65200 65100"中的65100替换为6 首先AS替换只能在发布的时候替换，即必须配置export 并且配置替换的时候不能是路由的始发者，必须要经过一个AS 比如msr4上配置，replace 5，实际在MSR1上看到的也是在65100之前加上以5 MSR 4的配置如下

```
ip prefix-list 1 index 10 permit 110.1.1.0 24
route-policy 1 permit node 10
 if-match ip address prefix-list 1
 apply as-path 5 replace
```

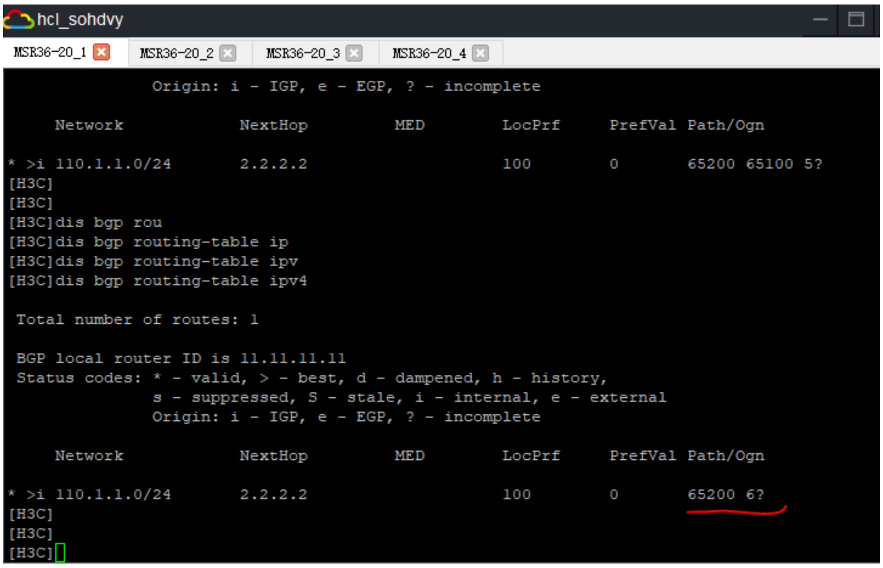


```
[H3C-route-policy-1-1]
[H3C-route-policy-1-1]route-policy 1 permit node 1
You are modifying an existing routing policy node.
[H3C-route-policy-1-1] if-match ip address prefix-list 1
[H3C-route-policy-1-1] apply as-path 200 replace
[H3C-route-policy-1-1]
[H3C-route-policy-1-1]
[H3C-route-policy-1-1]
[H3C-route-policy-1-1]qu
[H3C]dis bgp rou
[H3C]dis bgp routing-table ip
[H3C]dis bgp routing-table ipv
[H3C]dis bgp routing-table ipv4

 Total number of routes: 1

 BGP local router ID is 11.11.11.11
 Status codes: * - valid, > - best, d - dampened, h - history,
               s - suppressed, S - stale, i - internal, e - external
               Origin: i - IGP, e - EGP, ? - incomplete

     Network            NextHop         MED        LocPrf     PrefVal Path/Ogn

* >i 110.1.1.0/24       2.2.2.2                    100        0       65200 65100 5?
[H3C]
```

必须在MSR3上配置替换才可以，比如将65100换为6

```
ip prefix-list 1 index 10 permit 110.1.1.0 24
route-policy 1 permit node 10
 if-match ip address prefix-list 1
 apply as-path 6 replace
```

此时在MSR1上看，已经完成了替换



```
               Origin: i - IGP, e - EGP, ? - incomplete

     Network            NextHop         MED        LocPrf     PrefVal Path/Ogn

* >i 110.1.1.0/24       2.2.2.2                    100        0       65200 65100 5?
[H3C]
[H3C]
[H3C]dis bgp rou
[H3C]dis bgp routing-table ip
[H3C]dis bgp routing-table ipv
[H3C]dis bgp routing-table ipv4

 Total number of routes: 1

 BGP local router ID is 11.11.11.11
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               s - suppressed, S - stale, i - internal, e - external
               Origin: i - IGP, e - EGP, ? - incomplete

     Network            NextHop         MED        LocPrf     PrefVal Path/Ogn

* >i 110.1.1.0/24       2.2.2.2                    100        0       65200 6?
[H3C]
[H3C]
[H3C]
```

过程分析

暂无

解决方法

暂无