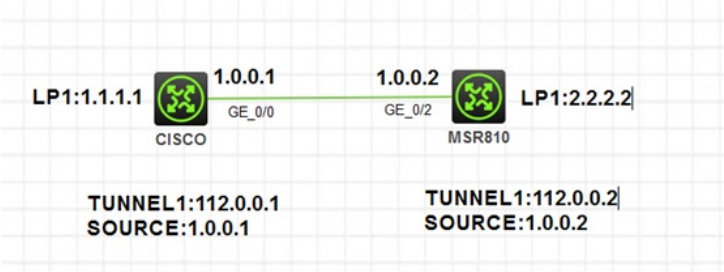
H3C MSR810 and Cisco equipment build MGRE Example

Routers 孟普 2021-06-09 Published

Network Topology

Use LP1 1.1.1.1 to simulate the headquarters server and LP1 2.2.2.2 to simulate the branch client.



Configuration Steps

2. Device configuration

A. Our MSR equipment is used as NHC with the following configuration

```
interface Tunnel2 mode mgre
 ip address 112.0.0.2 255.255.255.0              // Tunnel belongs to the global domain
ospf network-type broadcast
ospf 1 area 0.0.0.0
source GigabitEthernet0/2
tunnel vpn-instance 1
nhrp network-id 9
 nhrp authentication cipher $c$3$0MPkuM74bLtxsHEdSUNO7ajg92Foa9YdbA==
 nhrp holdtime 2600
 nhrp nhs 112.0.0.1 nbma 1.0.0.1

#
interface GigabitEthernet0/2
port link-mode route
 combo enable copper
 ip binding vpn-instance 1
 ip address 1.0.0.2 255.255.255.0

interface LoopBack1                                    // simulate the branch client.
ip address 2.2.2.2 255.255.255.0
 ospf 1 area 0.0.0.0
```

B. Configuration of Cisco equipment

```
interface Loopback1    // simulate the HQ server
 ip address 1.1.1.1    255.255.255.0

 ip ospf 1 area 0
!
interface Tunnel1
 ip address 112.0.0.1 255.255.255.0
 no ip redirects
 ip nhrp authentication 123456
 ip nhrp map multicast dynamic
 ip nhrp network-id 9
 ip nhrp holdtime 3600
 ip ospf network broadcast
 ip ospf 1 area 0
 tunnel source 1.0.0.1
 tunnel mode gre multipoint
!
interface GigabitEthernet0/0
 ip address 1.0.0.1 255.255.255.0
 duplex auto
 speed auto
 media-type rj45
```

2. The test results

```
[MSR]dis ospf routing

        OSPF Process 1 with Router ID 168.32.187.31
                Routing Table
```

Routing for network

Destination	Cost	Type	NextHop	AdvRouter	Area
1.1.1.0/24	1563	Stub	112.0.0.1	112.0.0.1	0.0.0.0
112.0.0.0/24	1562	Transit	0.0.0.0	112.0.0.1	0.0.0.0
2.2.2.2/32	0	Stub	0.0.0.0	168.32.187.31	0.0.0.0

Key Configuration