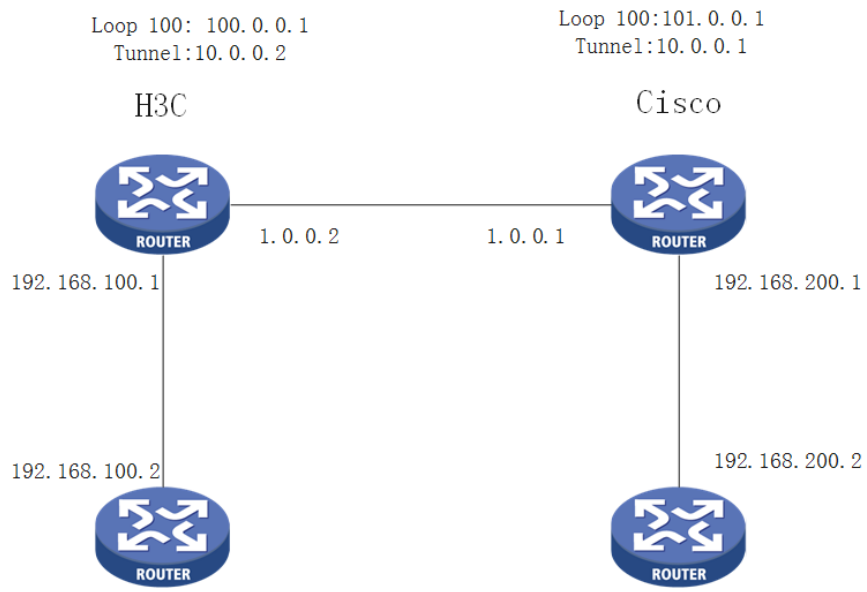
# H3C to Cisco GRE over IPsec configuration(Main mode)

Switches Routers 龚训杰 2020-12-25 Published

## Network Topology




AS

## Configuration Steps

H3C

```
#
interface GigabitEthernet0/0
 port link-mode route
 description ipsec_test
 speed 100
 ip address 1.0.0.2 255.255.255.0
 nat outbound
 ipsec apply policy tunnel
#
interface Tunnel0 mode gre
 ip address 10.0.0.2 255.255.255.0
 source 1.0.0.2
 destination 1.0.0.1
#
  ip route-static 101.0.0.0 24 Tunnel0
ip route-static 192.168.200.0 24 Tunnel0
#
acl advanced 3001
 rule 5 permit ip source 1.0.0.2 0 destination 1.0.0.1 0
#
ipsec transform-set test
 esp encryption-algorithm 3des-cbc
 esp authentication-algorithm md5
#
ipsec policy tunnel 1 isakmp
 transform-set test
 security acl 3001
 local-address 1.0.0.2
 remote-address 1.0.0.1
 ike-profile tunnel
#
ike profile tunnel
 keychain tunnel
 local-identity address 1.0.0.2
 match remote identity address 1.0.0.1 255.255.255.0
```

```
 proposal 1
#
ike proposal 1
 encryption-algorithm 3des-cbc
 authentication-algorithm md5
 sa duration 3600
#
ike keychain tunnel
 pre-shared-key address 1.0.0.1 255.255.255.0 key simple 12345678
#
```

**CISCO:**

```
!
crypto isakmp policy 20
 encr 3des
 hash md5
 authentication pre-share
 lifetime 3600
crypto isakmp key 12345678 address 1.0.0.2
!
!
crypto ipsec transform-set test esp-3des esp-md5-hmac
 mode transport
!
crypto map tunnel 20 ipsec-isakmp
 set peer 1.0.0.2
 set transform-set test
 match address 102
!
interface Tunnel0
 ip address 10.0.0.1 255.255.255.0
 tunnel source 1.0.0.1
 tunnel destination 1.0.0.2
!
interface FastEthernet0/0
 ip address 1.0.0.1 255.255.255.0
 crypto map tunnel
!
access-list 102 permit ip host 1.0.0.1 host 1.0.0.2
!
!
```

## Key Configuration

**ACL:**

**rule 5 permit ip source 1.0.0.2 0 destination 1.0.0.1 0** (from internet address to remote end)

**access-list 102 permit ip host 1.0.0.1 host 1.0.0.2**