

两台F5040主模式对接ipsec vpn且一端设备接口加入vpn-instance

IPSec VPN

证书

VPN实例

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组网及说明

F5040_1-1/0/1-----专网-----reth1-F5040_2_IRF---环回lo0

其中F5040_2_IRF的外网口reth1及建立vpn使用的地址lo0加入vpn实例，与远端F5040_1对接ipsec vpn

问题描述

跨专网对接ipsec vpn时设备部分接口加入vpn-instance

过程分析

带有vpn实例的ipsec对接中注意在部分参数中必须带上vpn-instance否则vpn无法正常建立

解决方法

1、不带实例侧F5040_1配置，安全策略正常放行；

```
interface Route-Aggregation1
```

```
ip address 10.101.1.34 255.255.255.252
```

```
interface LoopBack999
```

```
ip address 3.3.3.3 255.255.255.255
```

```
interface GigabitEthernet1/0/1
```

```
ip address 117.x.x.46 255.255.255.252
```

```
ipsec apply policy uni
```

```
acl advanced 3333
```

```
rule 1 permit ip source 10.101.1.34 0 destination 10.0.54.254 0
```

```
rule 5 permit ip source 3.3.3.3 0 destination 3.3.3.4 0
```

```
#
```

```
ipsec policy uni 90 isakmp
```

```
transform-set 1
```

```
security acl 3333
```

```
local-address 117.x.x.46
```

```
remote-address 113.x.x.14
```

```
ike-profile 1
```

```
sa duration time-based 3600
```

```
#
```

```
ike profile 1
```

```
keychain 1
```

```
local-identity address 117.x.x.46
```

```
match remote identity address 111.x.x.254 255.255.255.255
```

```
match local address GigabitEthernet1/0/1
```

```
proposal 1
```

```
#
```

```
proposal 1
```

```
#
```

```
ike keychain 1
```

```
pre-shared-key address 111.x.x.254 255.255.255.255 key cipher $c$3$yLmco62beRq851i6O68iGJal1ZzEVj7Q2g==
```

```
ipsec transform-set 1
```

```
esp encryption-algorithm 3des-cbc
```

```
esp authentication-algorithm md5
```

```
ip route-static 0.0.0.0 0 117.x.x.45
```

2、带实例侧F5040_2_IRF 配置，放行安全策略需要带上vrf

```
ip vpn-instance 6uffjmj4198n58iff9qvgur2oh
```

```
interface Reth1 //外网口加入实例
```

```
ip binding vpn-instance 6uffjmj4198n58iff9qvgur2oh
```

```
ip address 10.x.x.2 255.255.255.0
```

ipsec apply policy ipsecpolicy

```
interface LoopBack0 //对端ipsec指向本端地址所在接口
ip binding vpn-instance 6uffjmj4198n58iff9qvgur2oh
ip address 113.x.x.14 255.255.255.255
```

```
ipsec policy ipsecpolicy 90 isakmp
transform-set 1
security acl 3210
local-address 113.x.x.14
remote-address 117.x.x.46
ike-profile 1
sa duration time-based 3600
```

```
ike profile 1
keychain 1
local-identity address 113.x.x.14
match remote identity address 117.x.x.46 255.255.255.255 vpn-instance
6uffjmj4198n58iff9qvgur2oh //必须带vpn-instance
match local address 113.x.x.14 vpn-instance 6uffjmj4198n58iff9qvgur2oh //必须带vpn-instance
```

proposal 1

```
ipsec transform-set 1
esp encryption-algorithm 3des-cbc
esp authentication-algorithm md5
```

```
ike keychain 1 vpn-instance 6uffjmj4198n58iff9qvgur2oh //必须带vpn-instance
pre-shared-key address 117.x.x.46 255.255.255.255 key cipher $c$3$urvNF+FT3HU43MbJdvOj+RUJ
hkPoCpSpsw==
```

```
acl advanced 3210
rule 0 permit ip vpn-instance 6uffjmj4198n58iff9qvgur2oh source 10.0.54.254 0 destination
10.101.1.34 0 counting //保护数据流带实例
rule 5 permit ip vpn-instance 6uffjmj4198n58iff9qvgur2oh source 3.3.3.4 0 destination 3.3.3.3 0 //保
护数据流带实例
```

```
ip route-static vpn-instance 6uffjmj4198n58iff9qvgur2oh 0.0.0.0 0 10.x.x.254 //vpn-instance添加默
认路由从reth1出
```