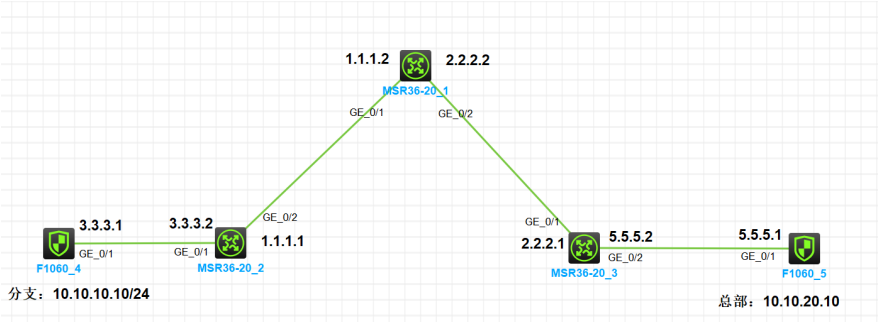
安全防火墙V7 ikev2 IPSEC 双NAT穿越案例

IPSec VPN　孔梦龙　2023-04-19 发表

组网及说明

分支使用3.3.3.1封装，然后SNAT的地址是1.1.1.1，做的静态NAT；总部使用5.5.5.1封装，然后SNAT的地址是2.2.2.1，做的静态NAT；



配置步骤

分支的配置：

```
#
interface LoopBack0
 ip address 10.10.10.10 255.255.255.0
#
interface GigabitEthernet1/0/1
 port link-mode route
 combo enable copper
 ip address 3.3.3.1 255.255.255.0
 ipsec apply policy kml
#
security-zone name Local
#
 ip route-static 0.0.0.0 0 3.3.3.2
#
acl advanced 3555
 rule 0 permit ip source 10.10.10.10 0 destination 10.10.20.10 0
#
domain system
#
user-group system
#
ipsec transform-set 1
 esp encryption-algorithm aes-cbc-128
 esp authentication-algorithm sha1
#
ipsec policy kml 1 isakmp
 transform-set 1
 security acl 3555
 local-address 3.3.3.1
 remote-address 2.2.2.1
 ikev2-profile profile1
#
 ip http enable
 ip https enable
#
ikev2 keychain keychain1
 peer peer1
  address 2.2.2.1 255.255.255.255
  identity address 2.2.2.1
  pre-shared-key ciphertext $c$3$RnjWJmcZYfFN4ib5DQM/rA29MhiNkA==
#
ikev2 profile profile1
 authentication-method local pre-share
 authentication-method remote pre-share
 keychain keychain1
 identity local fqdn fenzhi
 match remote identity fqdn zongbu
#
ikev2 proposal proposal1
 encryption aes-cbc-256
 integrity md5
 dh group1
#
ikev2 policy policy1
 proposal proposal1
 match local address 3.3.3.1
#
```

```
security-policy ip
 rule 0 name 00
  action pass
#
```

配置关键点

穿越需要使用静态NAT

总部配置:

```
#
interface GigabitEthernet1/0/1
 port link-mode route
 combo enable copper
 ip address 5.5.5.1 255.255.255.0
 ipsec apply policy kml

#
 ip route-static 0.0.0.0 0 5.5.5.2
#
 info-center loghost 127.0.0.1 port 3301 format default
 info-center source CFGLOG loghost level informational
#
acl advanced 3555
 rule 0 permit ip source 10.10.20.10 0 destination 10.10.10.10 0
#
#
user-group system
#
ipsec transform-set 1
 esp encryption-algorithm aes-cbc-128
 esp authentication-algorithm sha1
#
ipsec policy kml 1 isakmp
 transform-set 1
 security acl 3555
 local-address 5.5.5.1
 remote-address 1.1.1.1
 ikev2-profile profile1
#
 ip http enable
 ip https enable
#
ikev2 keychain keychain1
 peer peer1
  address 1.1.1.1 255.255.255.0
  identity address 1.1.1.1
  pre-shared-key ciphertext $c$3$LTtjoYHD+e3LiqPjg+a7FBYy2XNmlg==
#
ikev2 profile profile1
 authentication-method local pre-share
 authentication-method remote pre-share
 keychain keychain1
 identity local fqdn zongbu
 match remote identity fqdn fenzhi
#
ikev2 proposal proposal1
 encryption aes-cbc-256
 integrity md5
 dh group1
#
ikev2 policy policy1
 proposal proposal1
 match local address 5.5.5.1
#
security-policy ip
 rule 0 name 00
```

```
  action pass
#
return
```