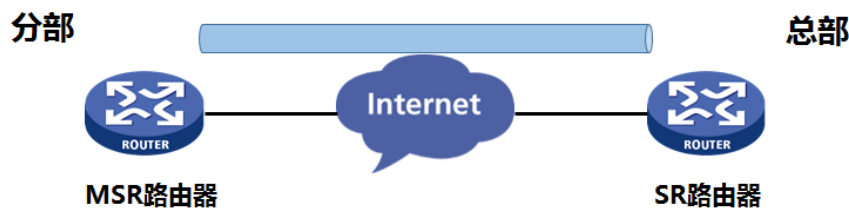


组网及说明

拓扑如下:



现场总部为SR路由器，分部为MSR路由器。

问题描述

现场配置ADVPN后，发现私网流量不通。

过程分析

首先先检查一下两边设备配置（未采用IPSEC加密，采用本地验证）：

总部侧：

```
vam server ip xx.xx.2.1 指定监听地址
#
vam server vpn zongbu
server enable
pre-shared-key cipher xxx
hub private-ip xx.xx.20.1 指定vpn域zongbu的hub地址
#
vam client name hub01
client enable
server primary ip-address XX.XX.2.1 指定VAM server地址
user dvpnuser password cipher XXXX 配置本地用户dvpnuser 并指定密钥
vpn vpn1
pre-shared-key cipher XXXX 指定VAM Client 预共享协商密钥
#
local-user dvpnuser 创建本地用户，并配置密钥和服务类型
password cipher XXXX
service-type dvpn
#
# interface Tunnel1 创建VPN域的隧道接口，采用UDP封装。
ip binding vpn-instance dvpn
ip address xx.xx.20.2 255.255.240.0
tcp mss 1400
tunnel-protocol dvpn udp
source XX.XX.2.1 上面VAM server 的地址
ospf dr-priority 255
vam client hub01
```

分支侧：

```
# interface Tunnel1 mode advpn udp
ip address XX.XX.20.1 255.255.240.0
ospf dr-priority 0 不参与DR/BDR选举
tcp mss 1400
source GigabitEthernet0/0
vam client spoke
#
vam client name spoke
advpn-domain vpn1
server primary ip-address XX.XX.2.1 指定对端总部的server地址
pre-shared-key simple xxxx
user dvpnuser password simple xxxx
client enable
#
```

首先检查两边不通的路由是否学习正常，两边OSPF路由邻居建立失败。

<fenbu>dis ospf peer

OSPF Process 1 with Router ID XX.XX.XX.XX

Neighbor Brief Information

Area: 0.0.0.0

Router ID	Address	Pri	Dead-Time	State	Interface
XX.XX.XX.XX	XX.XX.20.1	255	32	Init/ -	Tun1

在总部检查已注册的VAM client的IPV4私网地址映射信息

[zongbu] display vam server address-map all

ADVPN domain name: vpn1

Total private address mappings: 3

Group	Private address	Public address	Type	Holding time
0	xx.xx.20.2	xx.xx.2.1	Hub	240H 52M 7S
0	xx.xx.20.1	xx.xx.xx.3	Spoke	3H 28M 25S
0	xx.xx.20.4	xx.xx.xx.xx	Spoke	1H 19M 15S

显示正常建立

在总部上ping分部上tunnel口地址不通

[zongbu] ping -vpn-instance dvpn XX.XX.20.1

Ping XX.XX.20.1 : 56 data bytes, press CTRL_C to break

Request time out

.....

--- Ping statistics for XX.XX.20.1 ---

此时在分部和总部上分别观察隧道信息

[fenbu] display advpn session

Interface : Tunnel1

Number of sessions: 2

Private address	Public address	Port	Type	State	Holding time
xx.xx.20.1	xx.xx.xx.3	--	S-H	Dumb	0H 0M 8S

[Spoke1] display dvpn session all

Interface: Tunnel1 VPN name: vpn1 Total number: 2

Private IP: xx.xx.20.1

Public IP: xx.xx.xx.3

Session type: Spoke-Hub

State: SUCCESS

Holding time: 0h 0m 22s

.....

此时我们在分部上发现隧道状态在dumb（静默）状态，说明隧道建立失败。

接着我们在分部上debugging

*Jan 1 00:31:37:180 2011 LS_DaBuDong_AR_01 VAMC/7/PACKET: Type :14 (Error notification)

发现在分部上收到不通类型的报文报错

查询相关文档发现V5和V7 ADVPN报文格式存在差别，V5使用的是ADVPN V0格式的报文。

解决方法

在分部tunnel口下配置vam client时加入 compatible advpn0 参数，达到兼容ADVPN V0格式报文。