

SecPath防火墙每IP限速的典型配置

一、组网需求:

某公司想对内网172.16.1.0/24网段中每位员工上网做限速: 上行200k, 下行100k。

二、组网图



SecPath1000F-S: 版本为Version 3.40, Feature 1658;

PC: Windows XP操作系统, DHCP客户端。

三、配置步骤

1. SecPath1000F的主要配置

```
#
sysname F1000-S
#
firewall packet-filter enable
firewall packet-filter default permit
#
qos carl 1 source-ip-address range 172.16.1.2 to 172.16.1.254 per-address
//流控制对象一 qos carl 1 针对源ip地址范围为 1.1.1.1 到1.1.1.225 中的任意一个ip流量
qos carl 2 destination-ip-address range 172.16.1.2 to 172.16.1.254 per-address
//流控制对象二 qos carl 2 针对目的ip地址范围为 1.1.1.1 到1.1.1.225 中的任意一个ip流量
#
interface GigabitEthernet0/0
description INTERFACE_LAN
ip address 172.16.1.1 255.255.255.0
qos car inbound carl 1 cir 200000 cbs 200000 ebs 0green pass red discard
//针对流控制对象一进行限速, 每IP上传最大200Kb
qos car outbound carl 2 cir 100000 cbs 100000 ebs 0 green pass red discard
//针对流控制对象二进行限速, 每IP下载最大100Kb
#
interface GigabitEthernet0/1
ip address 202.38.1.1 255.255.255.0
#
firewall zone trust
add interface GigabitEthernet0/0
set priority 85
#
firewall zone untrust
add interface GigabitEthernet0/1
set priority 5
#
ip route-static 0.0.0.0 0.0.0.0 202.38.1.2 //配置默认路由
#
```

四、验证结果

1. 通过dis qos car interface (detail) 查看每IP的限速情况:

```
<F1000-S>dis qos car interface
Interface: GigabitEthernet0/0
Direction: Inbound
Rule(s): If-match CARL 2
CIR 200000 (bps), CBS 200000 (bit), EBS 200000 (bit)
Conform Action: pass
Exceed Action : discard
Conformed: 2197570/812152062 (Packets/Bytes)
Exceeded : 59765/57827002 (Packets/Bytes)
```

Direction: Outbound

Rule(s): If-match CARL 1

CIR 300000 (bps), CBS 300000 (bit), EBS 300000 (bit)

Conform Action: pass

Exceed Action : discard

Conformed: 1747569/742092582 (Packets/Bytes)

Exceeded : 625907/423742496 (Packets/Bytes)

2. 在用户PC (172.16.1.0/24) 上通过下载 (上传) 软件测试速度。