SecPath防火墙分片报文攻击防范典型配置

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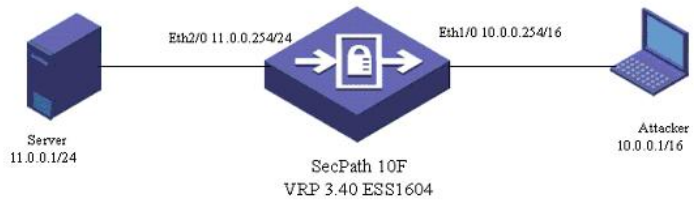
一、组网需求

部署SecPath防火墙，对IP分片报文攻击进行防范，以保护FTP Server 11.0.0.1/24。

二、组网图



软件版本如下：

SecPath10F：VRP 3.40 ESS 1604；

三、配置步骤

```
[DOWN] dis cur
#
 sysname DOWN
#
 firewall packet-filter enable
 firewall packet-filter default permit
#
 undo connection-limit enable
 connection-limit default deny
 connection-limit default amount upper-limit 50 lower-limit 20
#
 firewall statistic system enable
#
radius scheme system
#
domain system
#
local-user admin
 password cipher .]@USE=B,53Q=^Q`MAF4<1!!
 service-type telnet terminal
 level 3
 service-type ftp
#
acl number 3000
//阻止到达server的IP分片报文
 rule 1 deny ip destination 11.0.0.1 0 fragment
//允许ftp分片报文通过
 rule 2 permit tcp destination 11.0.0.1 0 destination-port eq ftp fragment
#
interface Ethernet1/0
 ip address 10.0.0.254 255.255.0.0
 firewall packet-filter 3000 inbound          //在接口上应用acl
#
interface Ethernet2/0
 speed 10
 duplex full
 ip address 11.0.0.254 255.255.255.0
#
interface NULL0
#
firewall zone local
 set priority 100
```

```
#
firewall zone trust
 add interface Ethernet2/0
 set priority 85
#
firewall zone untrust
 add interface Ethernet1/0
 set priority 5
#
firewall zone DMZ
 set priority 50
#
firewall interzone local trust
#
firewall interzone local untrust
#
firewall interzone local DMZ
#
firewall interzone trust untrust
#
firewall interzone trust DMZ
#
firewall interzone DMZ untrust
#
 FTP server enable
#
user-interface con 0
user-interface vty 0 4
 authentication-mode scheme
#
return
```

四、配置关键点

1．在ACL中配置对分片报文的阻断；

2．在接口上应用ACL。

五、验证结果

在攻击机Attacker：10.0.0.1上对11.0.0.1进行ping大包，PC会对ping报文进行分片，结果无法ping通11.0.0.1。

在攻击机上ftp 11.0.0.1，正常。

```
[DOWN]dis acl 3000
Advanced ACL  3000, 2 rules
Acl's step is 1
 rule 1 deny ip destination 11.0.0.1 0 fragment (0 times matched)
 rule 2 permit tcp destination 11.0.0.1 0 destination-port eq ftp fragment (0 ti
mes matched)

[DOWN]dis acl 3000
Advanced ACL  3000, 2 rules
Acl's step is 1
 rule 1 deny ip destination 11.0.0.1 0 fragment (108 times matched)
 rule 2 permit tcp destination 11.0.0.1 0 destination-port eq ftp fragment (0 ti
mes matched)
```