网络相关 胡伟 2025-02-19 发表

【MVS】F5 BIG-IP LTM HTTP XFF头插入配置说明

解决方法

F5 BIG-IP LTM虚服务配置SNAT时,客户端真实的源地址转换为F5设备上配置的地址,导致后端服务器无法获取真实的客户端地址,无法满足溯源等安全侧要求。可以在HTTP请求报文头中插入X-Forwarded-For字段来实现溯源功能,具体操作如下。

Enable the Insert X-Forwarded-For option in the HTTP profile

To configure the BIG-IP system to insert the original client IP address in an **X-Forwarded-For** HTTP header, perform the following procedure:

- 1. Log in to the Configuration utility.
- 2. Go to Local Traffic > Profiles.
- 3. For Services, select HTTP.
- 4. Select Create.

ſ	ONLINE (ACTIVE) Changes Pending Provisioning Warni				
Ma	n Help Al	bout	Local Taffic in Profiles : Services : HTTP		
200 s	tatistics		go Sandcas Content Presidence Producal SSL Authentication Message Routing Other +		
	φρs		Search .		Create
53 D	NS		Application	Parent Profile	· Partition / Path
88.	Local Traffic		in the	(none)	Common
000 0			l hip-scylck	(none)	Common
	Network Map		Htp-transport	(none)	Common
	Virtual Servers		To and the second secon	http	Common
	Policies		Delete		
l l	Profiles				
	Ciphers				
	Rules				
	Posts				
	Nodes				
	Monitors				
	Traffic Class				
	Address Translation	-			

- 5. Enter a name for the HTTP profile.
- Select the Insert X-Forwarded-For check box.
 Note: Older versions of BIG-IP software may display the option as Insert XForwarded For instead of Insert X-Forwarded-For.
- 7. For Insert X-Forwarded-For, select Enabled.

🚓 🚽 Properties								
General Properties								
Name	ητρ-χπ							
Name Partition / Path	Common							
Name Partition / Path Proxy Mode	Common Reverse							

		1
	Request Chunking	Sustain v
	Response Chunking	Sustain v
	OneConnect Transformations	C Enabled
	OneConnect Status Reuse	200 206
	Redirect Rewrite	None v
	Encrypt Cookies	
	Cookie Encryption Passphrase	
	Confirm Cookie Encryption Passphrase	
	Insert X-Forwarded-For	Enabled v
ľ	LWS Maximum Columns	80
	LWS Separator	
	Maximum Requests	0
	Send Proxy Via Header In Request	Preserve v
	Sand Dravy Via Haadar In	

8. Select Finished.

You must now associate the new HTTP profile with the virtual server.

Configuration: Advanced v							
DoH Profile Type	None						
Protocol	TCP v						
Protocol Profile (Client)	tcp ~						
Protocol Profile (Server)	(Use Client Profile) ~						
HTTP Profile (Client)	http-xff v						
HTTP Profile (Server)	(Use Client Profile) v						
HTTP Proxy Connect Profile	None ~						
FTP Profile	None x						

实际操作效果如下:

• 地址转换前

, htt	p											
No.		Source	Destination		Identification	Total Length	Handshake Type					
+•	5 1.164531	192.168.120.120	192.168.120.10	HTTP	0xbcc4 (483	24) 434		IN	s1/tmm1	: GET / HTTP	/1.1	
	10 1.164992	192.168.120.100	192.168.120.24	HTTP	0x937f (377	59) 468		OUT	s1/tmm1	: GET / HTTP	/1.1	
	449 4.387074	192.168.120.24	192.168.120.100	HTTP	0xed71 (607	85) 1165		IN	s1/tmm1	: HTTP/1.0 2	00 OK	(text/html)
4	470 4.408792	192.168.120.10	192.168.120.120	HTTP	0x96f8 (386	48) 4085	(OUT	s1/tmm1	: HTTP/1.0 2	100 OK	(text/html)
 > Fra > Eth > Int > Tra 	Frame 5: 550 bytes on wire (4000 bits), 500 bytes captured (4000 bits) Ethernet 1, 5rc: VMware, FG17441, 000-2017(3)f13), DT1; FSHepmark, 5= 6202:06 (00:94:a1:50:02:06) > Tratemet Protocol Version 4, 5rc: (92.108.320.100, TUT: 120.108.120.100 > Transmission Control Protocol, Src Port: 03970, DSt Port: 8000, Sec: 1, Ack: 1, Len: 304											
Hyp	Hypertext Transfer Protocol D GET / HTTP/1.1\r\n											
Nost: 192.165.129.19:8000\/\n User-4gent: Korll145.6 (Windows NT 10.0; Win64; x64; rv:135.0) Geckg/20100101 Firefox/135.0\r\n Accept: text/thel.applIcation/xhtml.applIcation/xml;qu0.9, */*;qu0.8\r\n Accept: Encoding: gr1p, deflate(>,hr\n;qu0.7,zh-HK;qu0.5,en-US;qu0.3,en;qu0.2\r\n Connection: Keep-11Ve/r\n Upgrade-Insecure-Requests: 1\r\n Priority: u=0, 1\r\n (WITP request URI: http://192.168.120.10:8000/] [WITP request URI: http://192.168.120.10:8000/] [MITP request uRI: http://192.168.120.10:8000/]												
> F5	Ethernet Traile	er Protocol										

• SNAT地址转换后

