

NE40/NE80/S8016在版本VRP5.30防攻击的系统Car参数说明

NE40/NE80/S8016产品在VRP5.30针对出现过多上送主控板的协议报文时，如icmp及telnet、ftp等报文，根据实际情况，需要考虑调整系统Car来为防止攻击，这与VRP3.10的系统漏桶功能类似。

具体可以用display system slot [num] 查看系统Car丢弃计数，对丢弃频繁的系统Car可以进行限流配置。比如：

[NE40] display system slot 4

Apply system information

#The slot number: 4 /*板号*/

The Protocol type :ipv4-redirect-icmp /*协议类型*/

The time of the last packets arrive: 37252450 /*上次报文到来的时间ms*/

The number of present tokens: 2898 /*当前剩余的令牌*/

The number of the discarded packets: 1 /*丢弃报文数*/

apply system cir 8k cbs 3000 /*系统Car大小及所允许突发流量*/

如果丢弃报文数变化比较频繁，则考虑限制此系统Car的通道大小，可能有攻击。一般来说，根据实际业务情况，对相应的系统Car做一定的配置，如对FTP做相应的限制：

[NE40]apply system car 64k cbs 65536 slot 4 type ipv4-redirect-tcp

/*将4号板的ipv4-redirect-tcp的car配置为64Kbps，cbs为65536Bytes*/

系统car的报文类型可以通过如下命令查看

[NE40]disp system slot 4 type ?

- atm-integrated Include the flowing two type packet:Atm oam packet,isis packet
- eth-integrated Include the flowing four type packet:Eth-trunk lacp packet,BPDU protocol packet,HGMP protocol packet,IP multicast packet which destIP address is 224.0.0.18(used by VRRP)
- ipv4-arp-miss ARP Miss message £ ?use it to form ARP entry
- ipv4-arp-nat-address-pool ARP request packet which destIP is in NAT pool
- ipv4-arp-req ARP request packet send by all the host £ ?use it to learning host route
- ipv4-fwd-table-vlan FIB Miss Message use it to form host route entry
- ipv4-gvrp GVRP protocol packet
- ipv4-igmp Igmpprotocol packet
- ipv4-integrated Include the flowing four type packet:Rarp packet,Ipv4 packet fib check fail,Ipv4 packet with ttl expired,Packet length exceed MTU and DF flag is set
- ipv4-mc-builton-register Mc built register packets
- ipv4-mc-default Other IP multicast packet which destIP address is in 224.0.0.0-224.0.0.255(excluded.225.5.6.9.10.13.18)
- ipv4-mc-fwd-miss Ipv4 multicust packet fib check fail
- ipv4-mc-fwd-rpf-mismatch Ipv4 multicust packet rpf check fail
- ipv4-mc-if-router IP multicast packet which destIP address is 224.0.0.2(used by IGMP, LDP etc)
- ipv4-mc-ospf IP multicast packet which destIP address is 224.0.0.5(used by OSPF)
- ipv4-mc-ospf-dr IP multicast packet which destIP address is 224.0.0.6(used by OSPF)
- ipv4-mc-pim IP multicast packet which destIP address is 224.0.0.13(used by PIM)
- ipv4-mc-registered Register packet used in PIM SIM protocol
- ipv4-mc-rip2 IP multicast packet which destIP address is 224.0.0.9(used by RIP2)
- ipv4-option Ipv4 packet with option
- ipv4-redirect-default Packet which destIP is ip address of gateway, exclude ICMP and TCP
- ipv4-redirect-dhcp DHCP protocol packet
- ipv4-redirect-icmp ICMP packet which destIP is ip address of gateway, for example, ping packet

ipv4-redirect-rip1	RIP1 protocol packet
ipv4-redirect-snmp	SNMP redirect in FIB
ipv4-redirect-tcp	TCP packet which destIP is ip address of gateway, for example, FTP, BGP peer, LDP session
isis-packet	ISIS protocol packet
mpls-arp-miss	Mpls packet arp miss
mpls-integrated	Include the following seven type packet:Mpls packet label search fail,Mpls packet token search fail,Mpls packet with router alert lable,Mpls packet ttl expired,Mpls packet mtu exceed,Mpls packet forward to cp,Mpls multicust packet
net-loopback	loopback test packet
ppp-ctrl-frame	PPP protocol control frame
rpr-ctrl-frame	RPR protocol control frame
unknow-packet	Default bucket any packet not list here use this bucket
wrap	wrap packet frome egress to ingress