SANGFOR

IAM

Anti-DOS attack Troubleshooting Guide

Version 12.0.18

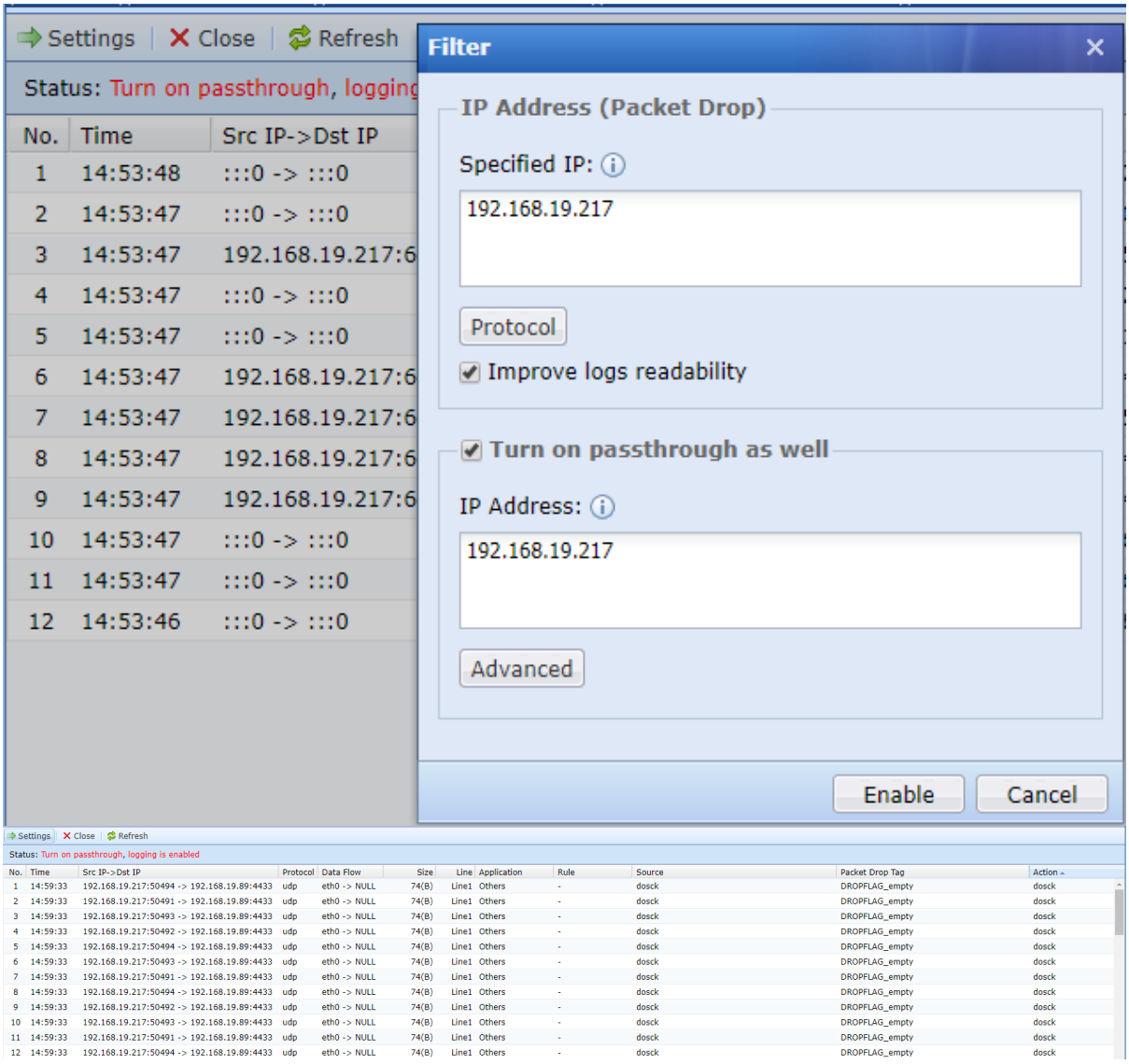
Change Log

Date	Change Description
June 3, 2019	Version 12.0.18 document release.

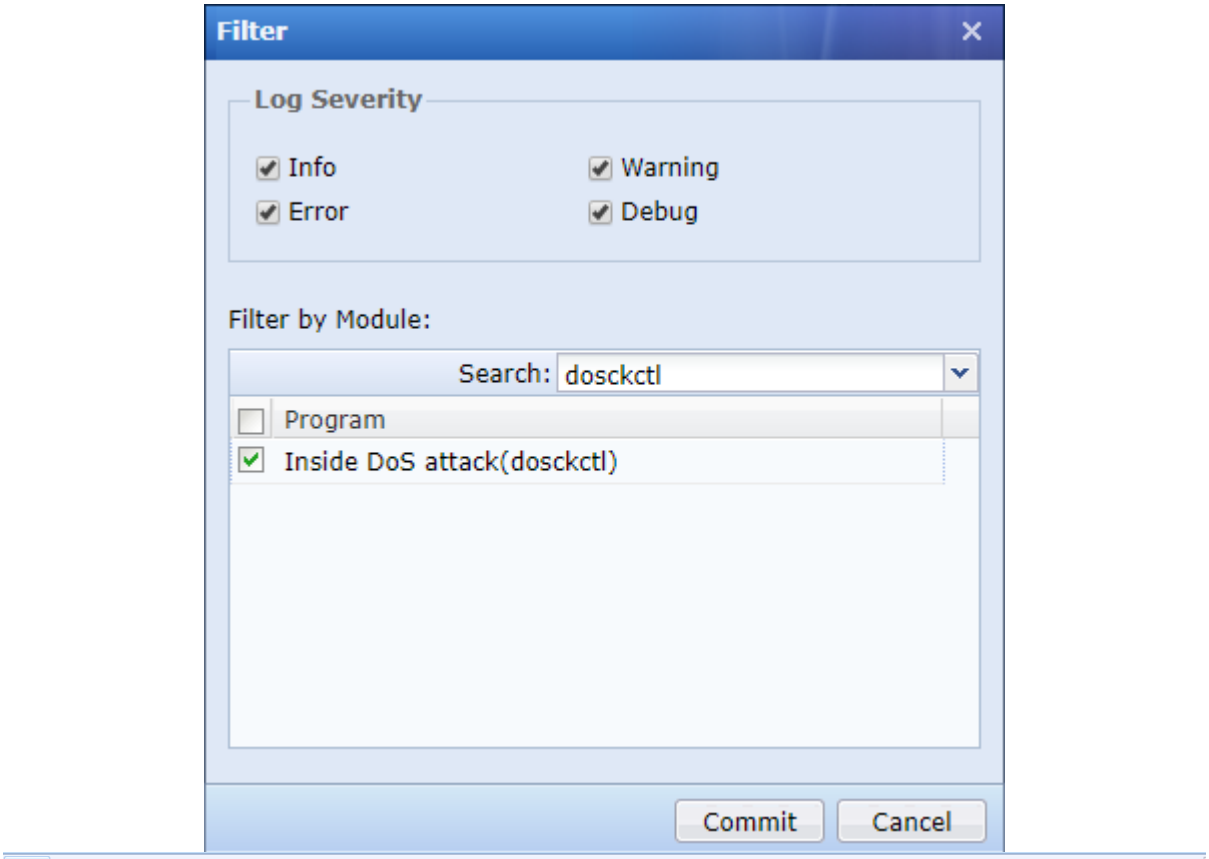
CONTENT

Chapter 1 Normal traffic is intercepted by IAM

- Start **Troubleshooting** first to check if it is a packet blocked by the anti-DOS attack module. If the **Action** column shows **dosck**, it means that the anti-DOS attack module intercepts the packet.



- Query the IP address intercepted by the anti-DOS attack module in the system log to determine the traffic of these IPs.



Filter Date:

No.	Module	Type	Time	Details
1	Inside DoS attack(dosckctl)	Info	14:37:22	msg0059: Config has been updated, dirver enable
2	Inside DoS attack(dosckctl)	Warning	14:36:58	wrn0228: Defending against UDP attacks (eth0, more than 1000 packets/sec): 192.168.19.217:60393(FE:FC:FE:57:9F:0B) --> 192.168.19.89:4433
3	Inside DoS attack(dosckctl)	Warning	14:36:58	wrn0253: Unlocking source IP address(192.168.19.217)
4	Inside DoS attack(dosckctl)	Warning	14:35:56	wrn0228: Defending against UDP attacks (eth0, more than 1000 packets/sec): 192.168.19.217:60327(FE:FC:FE:57:9F:0B) --> 192.168.19.89:4433
5	Inside DoS attack(dosckctl)	Info	14:34:47	msg0059: Config has been updated, dirver enable
6	Inside DoS attack(dosckctl)	Info	14:33:53	msg0059: Config has been updated, dirver enable
7	Inside DoS attack(dosckctl)	Warning	14:30:13	wrn0228: UDP attack from bypass IP address(eth0, more than 1000 packets/sec): 192.168.19.217:60253(FE:FC:FE:57:9F:0B) --> 192.168.19.89:3389
8	Inside DoS attack(dosckctl)	Warning	14:30:13	wrn0253: Unlocking source IP address(192.168.19.217)
9	Inside DoS attack(dosckctl)	Warning	14:29:05	wrn0228: Defending against UDP attacks (eth0, more than 1000 packets/sec): 192.168.19.217:60208(FE:FC:FE:57:9F:0B) --> 192.168.19.89:3389
10	Inside DoS attack(dosckctl)	Info	14:28:52	msg0059: Config has been updated, dirver enable
11	Inside DoS attack(dosckctl)	Info	14:28:44	msg0059: Config has been updated, dirver enable
12	Inside DoS attack(dosckctl)	Info	14:28:32	msg0059: Config has been updated, dirver enable
13	Inside DoS attack(dosckctl)	Info	14:22:23	msg0059: Config has been updated, dirver enable

- Please check if the traffic exceeds the limit of the IAM anti-DOS attack module. The judgment criteria of IAM are as follows. A general device does not generate a large number of data packets within 1s.

Rules:

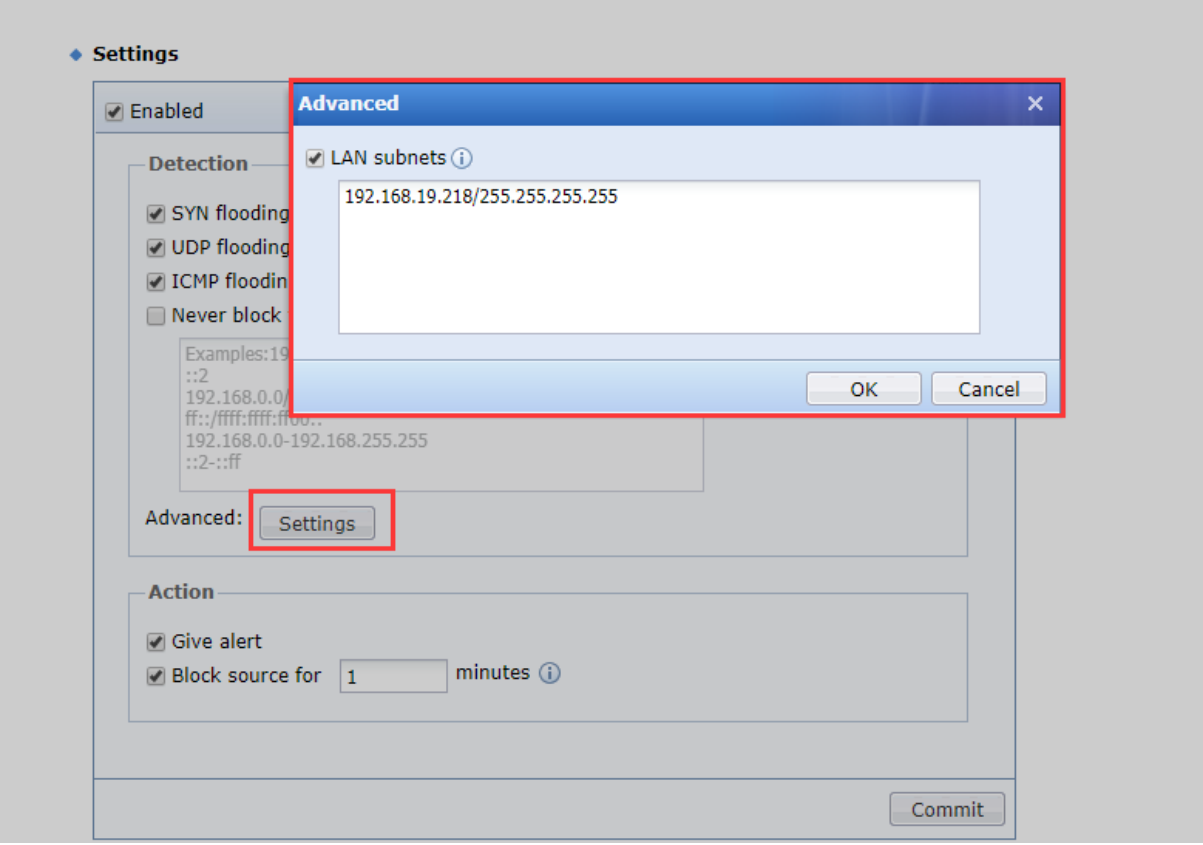
The number of udp upstream packets that are consecutive and consistent in size according to source ip and target ip in 1 second. If more than **1000**, it is judged as udp dos attack.

Within 1 second, according to the source ip and the target ip, the difference between the number of packets SYN packets and ACK packets of the tcp handshake is more than **1000**, and it is determined to be tcp dos attack.

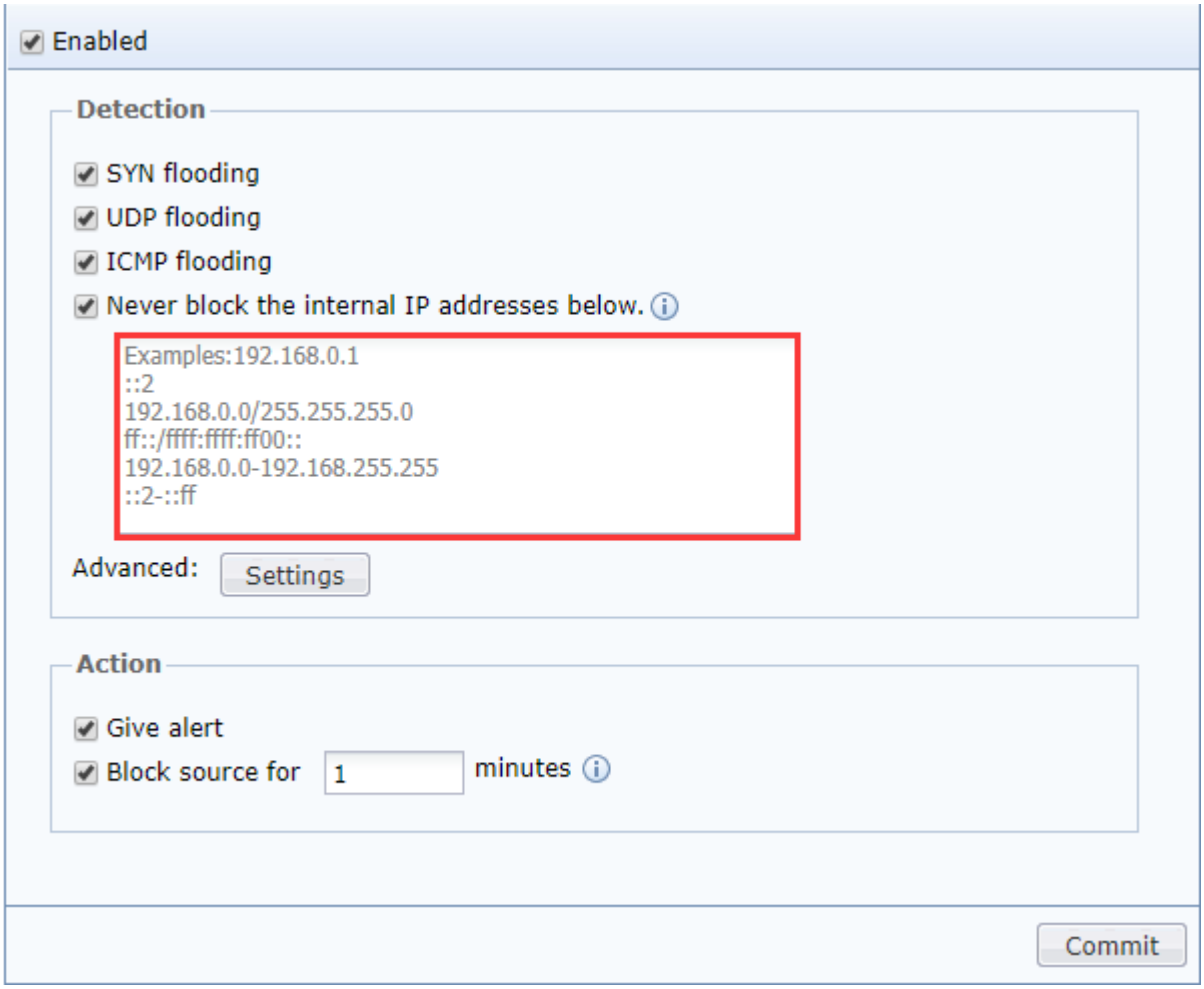
The total number of ICMP ping packets is counted by source ip and target ip in 1 second , and the total number reaches **1000**, which is judged as ICMP dos attack.

Chapter 2 Check if the configuration is correct

- Regarding the configuration of the anti-DOS attack module, if you want to fill in the LAN subnet, you must fill in the complete subnet segment of all the intranets, otherwise the anti-DOS attack module will intercept the data packet.



- If some network devices on the intranet have relatively large traffic, you can consider adding the IP of this device to the exclusion list.


Enabled
Detection
SYN flooding
UDP flooding
ICMP flooding
Never block the internal IP addresses below.
Examples:192.168.0.1
::2
192.168.0.0/255.255.255.0
ff::/ffff:ffff:ff00::
192.168.0.0-192.168.255.255
::2-::ff
Advanced:
Settings
Action
Give alert
Block source for
1
minutes
Commit